Project:

City House Sutton Park Road Sutton SM1 2AE

Date:

February 2024

Report: **Planning DAS**

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WIMSHURST PELLERITI

INTRODUCTION

This report has been prepared by Wimshurst Pelleriti Architects on behalf of Macar Living (City House) Ltd for the purpose of a Major Planning Application Submission to Sutton Council.



COMMUNITY WITHOUT COMPROMISE

Client





Planning Consultants





MEP Consultants





Daylight/Sunlight consultants

PHILIP CAVE ASSOCIATES LANDSCAPE ARCHITECTURE
 URBAN DESIGN



Landscape Architect

usefulprojects

part of the Useful Simple Trust





Wind Engineer

Arboricultural Consultant

RG

Transport Consultants

Marcus Foster



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Revision	Descriptio
P0	Planning

ion	Date	Issued by	Checked by
	07/02/2024	JV	WW

01. INTRODUCTION

City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

MACAR LIVING

Macar Living is a family run business, which has built a reputation based on honesty, integrity and delivery of the highest quality. Local Authorities trust them to create thoughtful, people-centred developments and they take that responsibility very seriously. They work with landowners, borough authorities and the community to provide homes, which complement local surroundings. They specialise in realising the potential of land,

including the development of larger properties into new-build family sized apartments, brown field sites, commercial properties, Metropolitan Green Belt and back gardens.

They design sympathetic and bespoke dwellings, which blend in and complement the surrounding areas, safeguarding the local community.





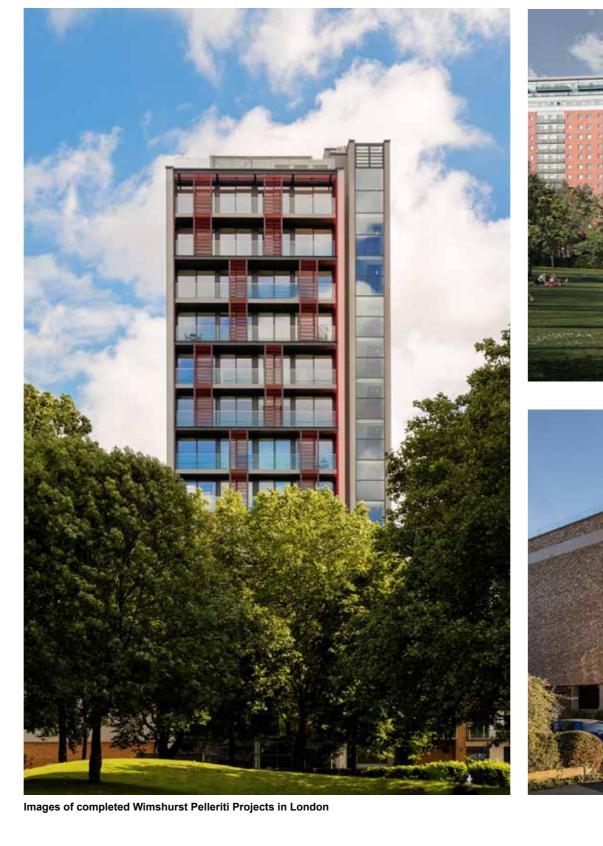




INTRODUCTION WIMSHURST PELLERITI

Wimshurst Pelleriti is a contemporary architecture firm located in South-West London, known for its creative, attentive, and thoughtful approach to design. With a diverse portfolio spanning large commercial projects, multi-unit residential developments, and smaller domestic renovations, Wimshurst Pelleriti consistently applies a design-oriented mindset focused on sustainable development and a deep understanding of construction processes.

At the heart of Wimshurst Pelleriti's work is the integration of sustainability and high-quality design, resulting in buildings that are not only resilient and future-proof but also energy, carbon, and waterefficient. Our commitment to creating spaces that are both comfortable and healthy to inhabit reflects our dedication to providing practical architecture that generates positive social impact.



WIMSHURST PELLERITI







02. SITE AND CONTEXT

City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

SITE AND CONTEXT

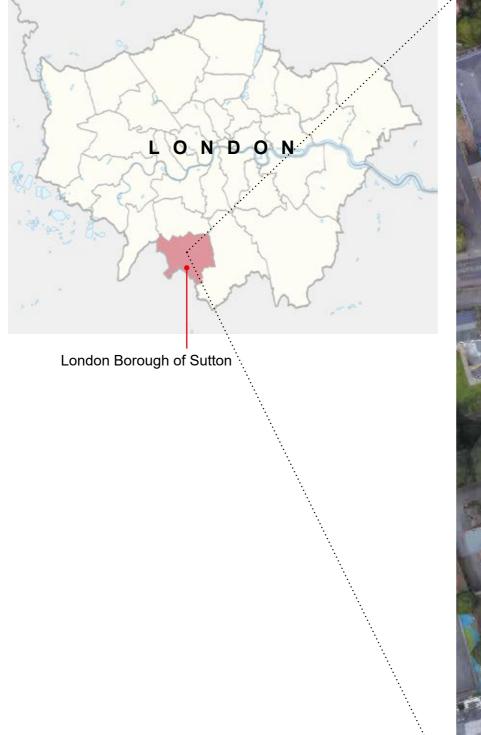
SITE LOCATION

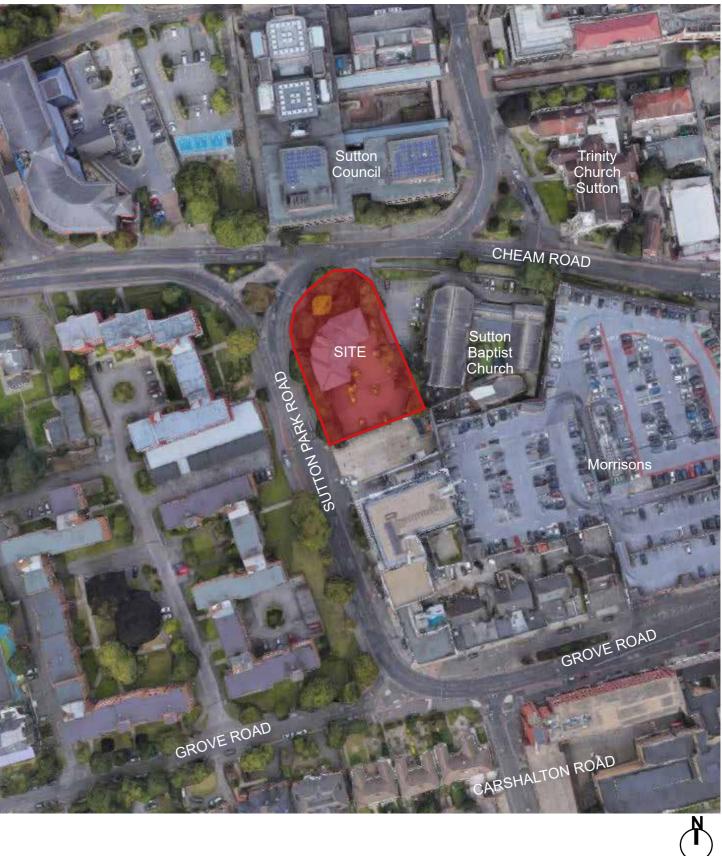
The site is located on on the eastern corner of Sutton Park Road and Cheam Road in Sutton Town Centre, adjacent to the Sutton Baptist Church

To the South of the site are residential dwellings facing Sutton Park Road.

To the East of the site lies the Sutton Baptist Church.

To the North of the site sits Sutton Council offices.





SITE LOCATION



SITE AND CONTEXT

TOWNSCAPE ASSESSMENT

Sutton comprises a range of contrasting environments which support a diverse range of economies. This section of the masterplan puts forward area-based guidance across a number of locations to help improve the environmental qualities and economic fortunes of each.

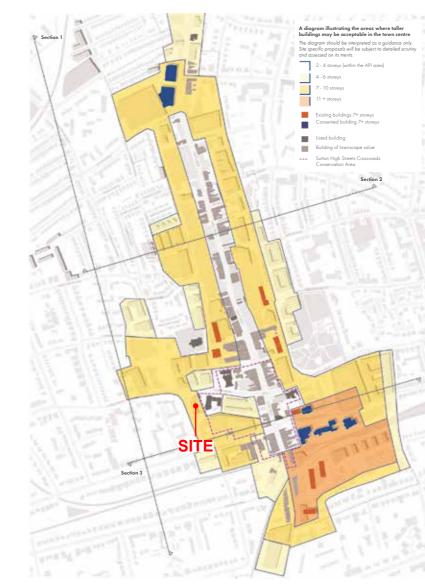
Informed by urban analysis and liaison with key stakeholders, and previous work by Gillespies in the Sutton Town Centre Urban Design Framework, the following four 'quarters' of the centre are identified:

- Station Gateway centring on Sutton Station ٠ and its immediate environs
- Sutton South centring on Trinity Square in the • southern part of the centre
- Sutton North focused on the northern part of ٠ the commercial centre
- Northern Quarter from the commercial core ٠ up to Sutton Green (the northern part of the pedestrianised high street falls in this quarter).
- Sutton gyratory is covered under a separate ٠ section.

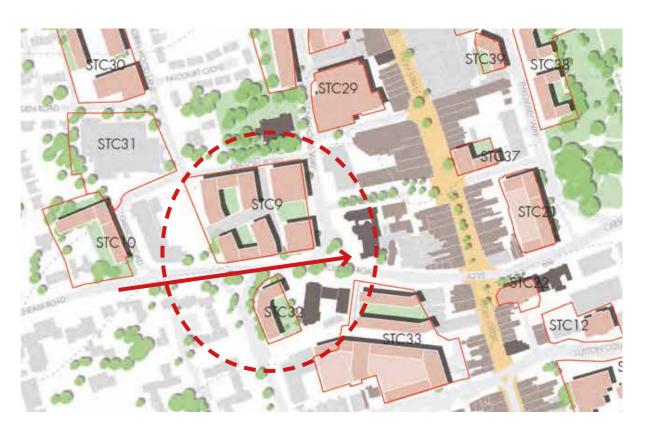
The opportunity sites in the masterplan correspond to the site allocations in the emerging Sutton Local Plan. Further details about each site, including policy designations and possible future uses, can be found in the Local Plan.

- Allies and Morrison Masterplan 2016











3D View extracted from Sutton Town Centre Masterplan (Allies & Morrison 2016)

Plan extracted from Sutton Town Centre Masterplan (Allies & Morrison 2016)

TRANSPORT LINKS

The site is very well connected with a PTAL of 6a. Sutton train station is only 320m away from the site, approximately a 6min walk. Central London can be reached within ca. 60min.

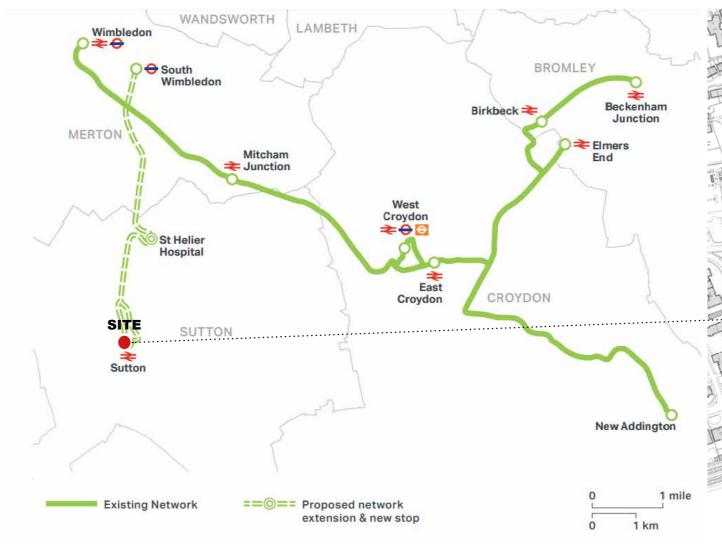
The nearest tube stations to Sutton are :

- Morden (Northern Line)
- Wimbledon (District Line)

Sutton is well-serviced by approximately 29 bus routes. They connect the town centre to neighbouring towns such as :

- Banstead
- Epsom
- Croydon
- Merton
- Wallington

Proposals for an extension of the TfL Wimbledon to Croydon Tramlink to Sutton Town Centre are currently out for public consultation together with the option of a Bus Rapid Transit (BRT) system alternative.



Existing tram network with proposed extension dotted







The site is in PTAL 6, 320m away from the Station.



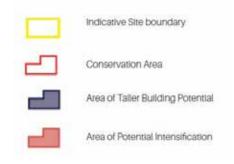


SITE AND CONTEXT

LOCAL PLAN POLICY MAP

Sutton Local Plan Policy Map

- The Sutton Online Local Plan Policies Map is a useful tool to identify the areas of allocated development.
- The map is taken from the online policy map and shows the area of taller building potential and area of potential intensification overlays in relation to the Sutton High Street Conservation Area (red outline) and the Site (yellow circle).
- The map illustrates the future development pattern of Sutton. The policies of Sutton are encouraging growth and intensification into the metropolitan areas of the Borough.
- In turn, this shows that the emerging setting of the Sutton Conservation Area and nearby heritage assets is one of taller buildings and intensification.



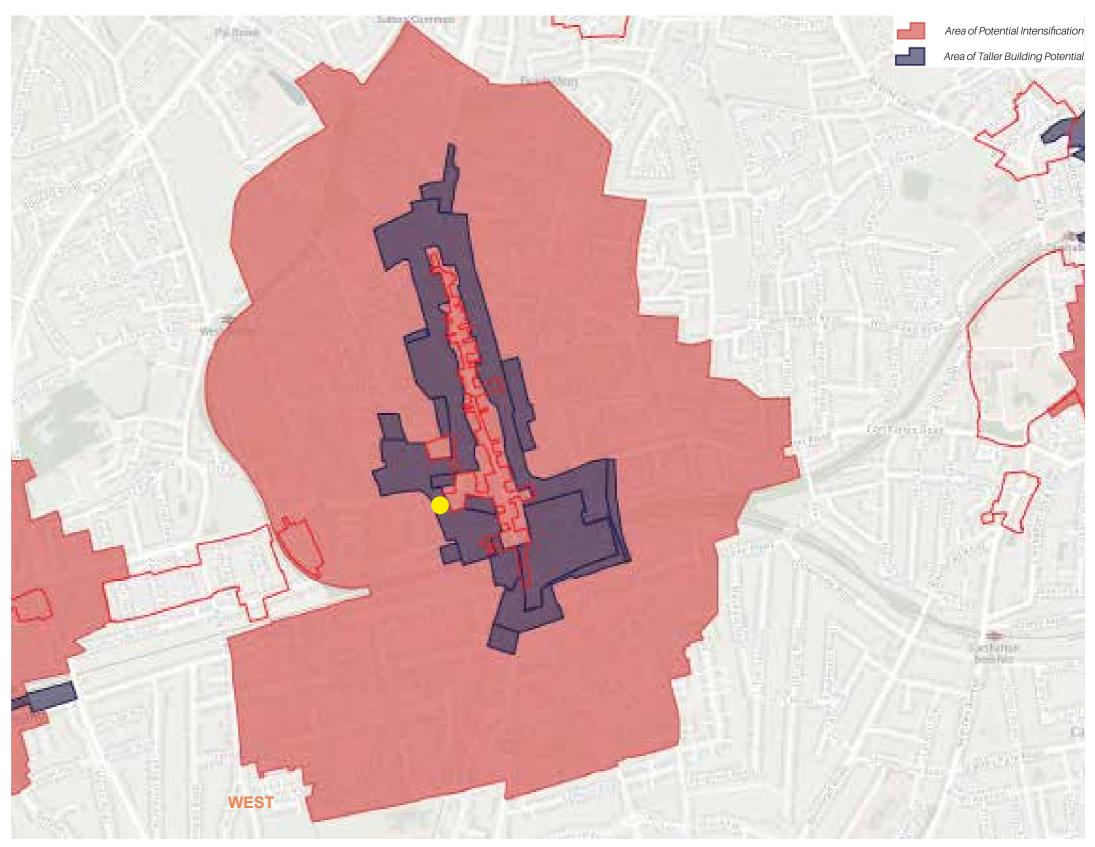
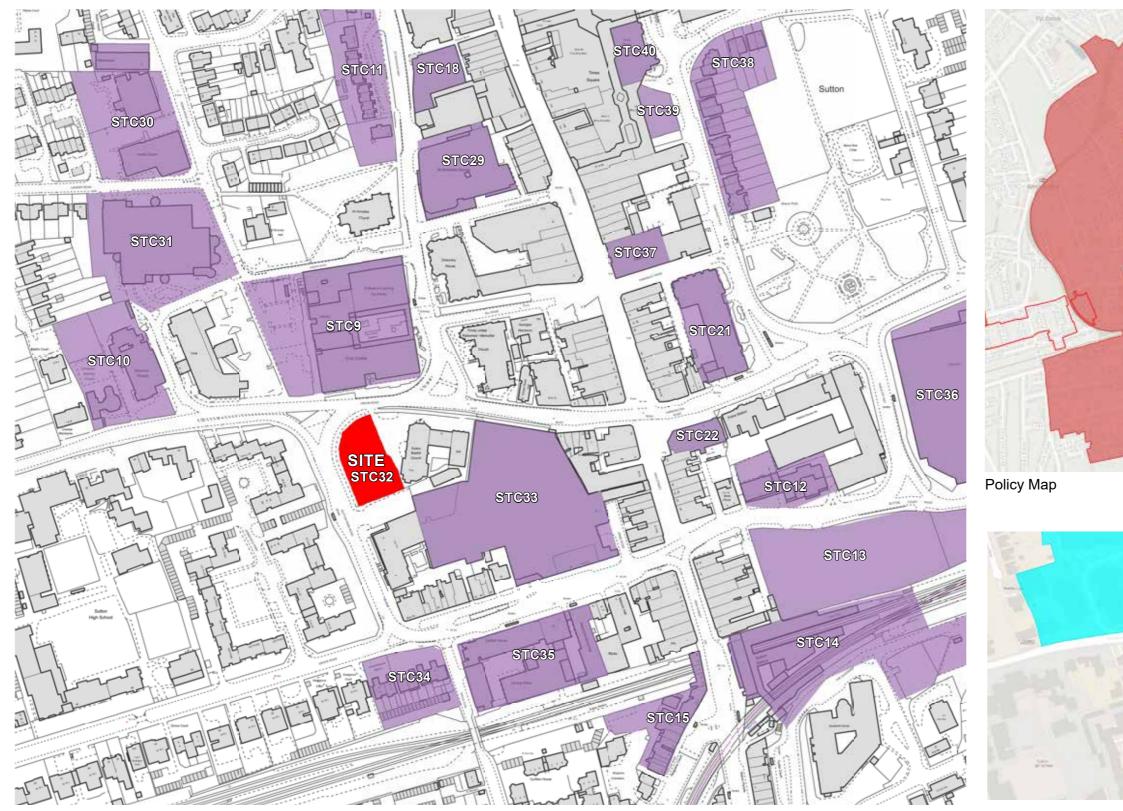
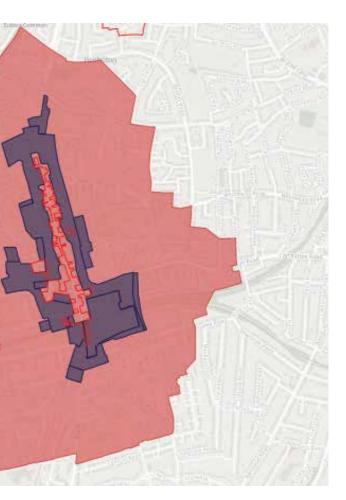


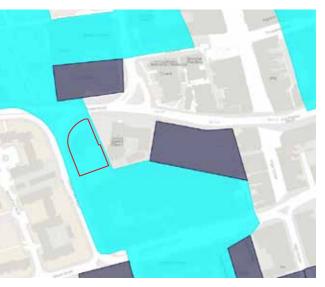
Image 12- The Sutton Online Local Plan Policies Map.

SITE ASSESSMENT - SITE ALLOCATIONS & AREA OF TALLER BUILDING POTENTIAL



The site is allocated as STC32





The site is within the area of taller building potential

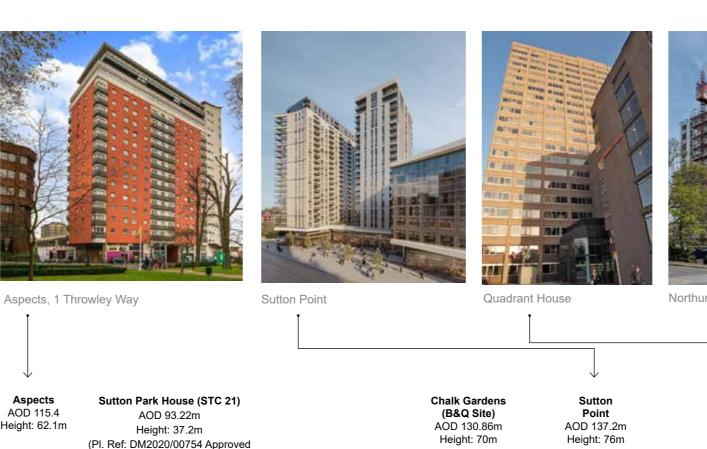
SITE AND CONTEXT

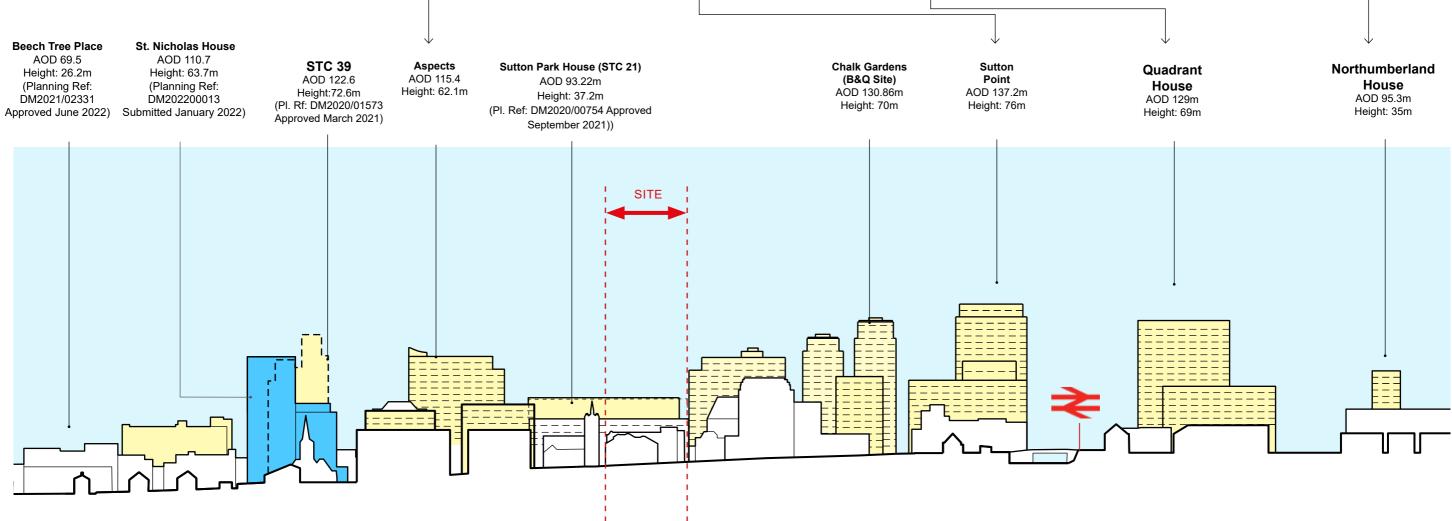
TALL BUILDINGS

The surrounding context features a series of tall buildings. These include buildings around Sutton Station such as Quadrant House and the recently completed Sutton Point. They are given further prominence by their position on higher ground that rises by over 30m along the north-south axis of the High Street.

Another cluster of tall building can be found to the East of the site. These include Aspects (1 Throwley Way), St. Nicholas House and Chancery House.

Sutton Park House (STC21) with three additional storeys and STC39 of 20 storeys are both relevant adjacent applications.





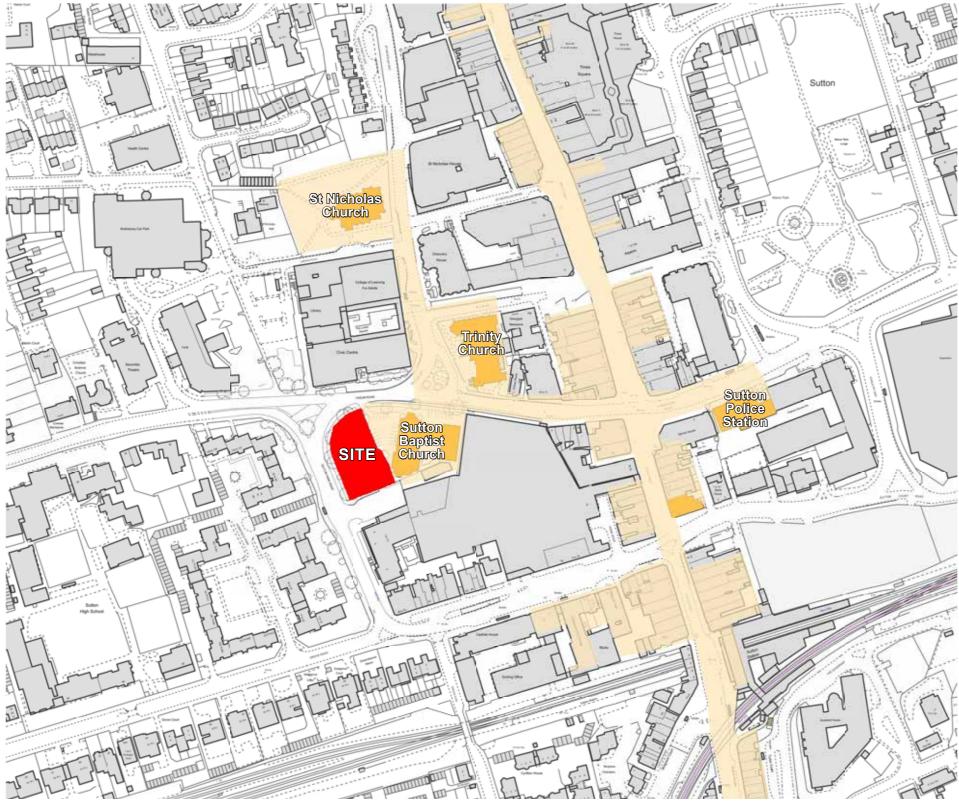




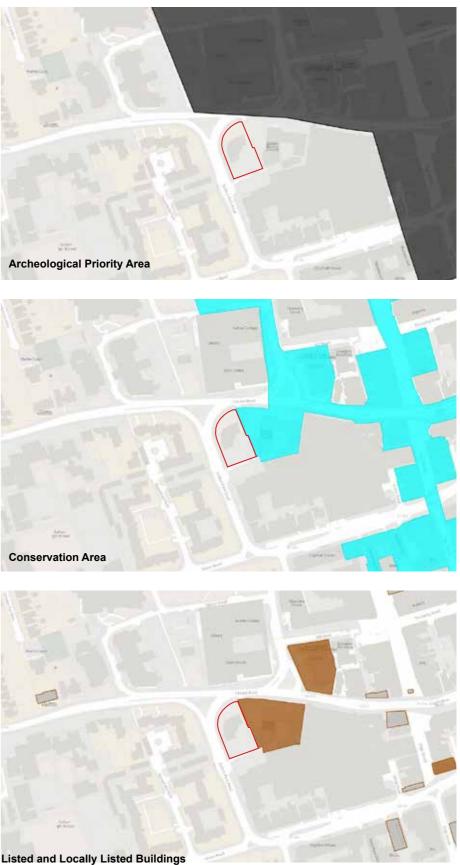
Northumberland House

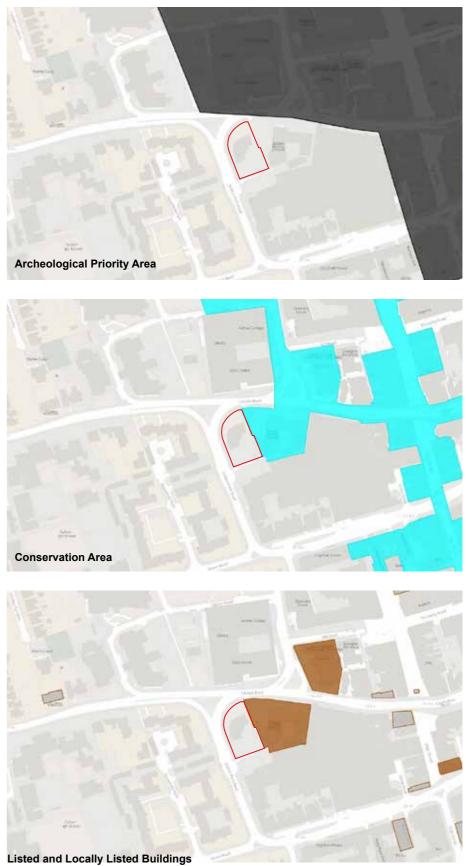
STC 39 - Approved Scheme

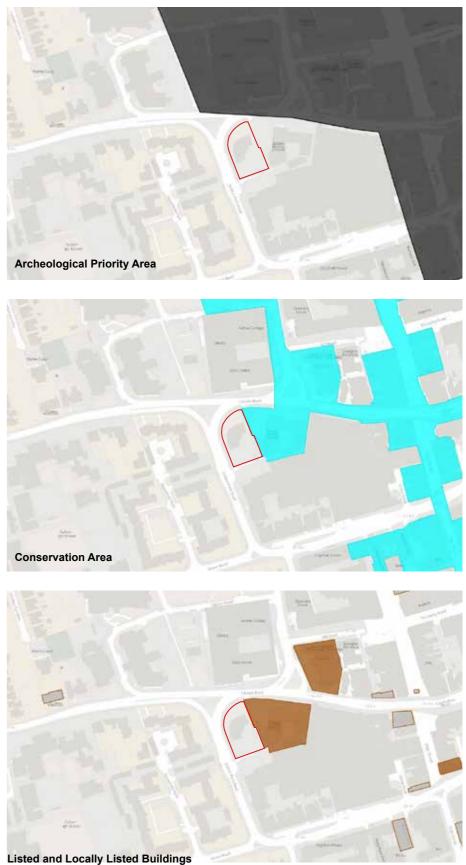
SITE ASSESSMENT - HERITAGE



The site is adjacent to the Sutton Town Centre CA The site is adjacent to Sutton Baptist Church (Grade II* Listed Building)







SITE AND CONTEXT

THE SITE



Bird Eye View from the West



Bird Eye View from the East



Existing Building



Existing Building



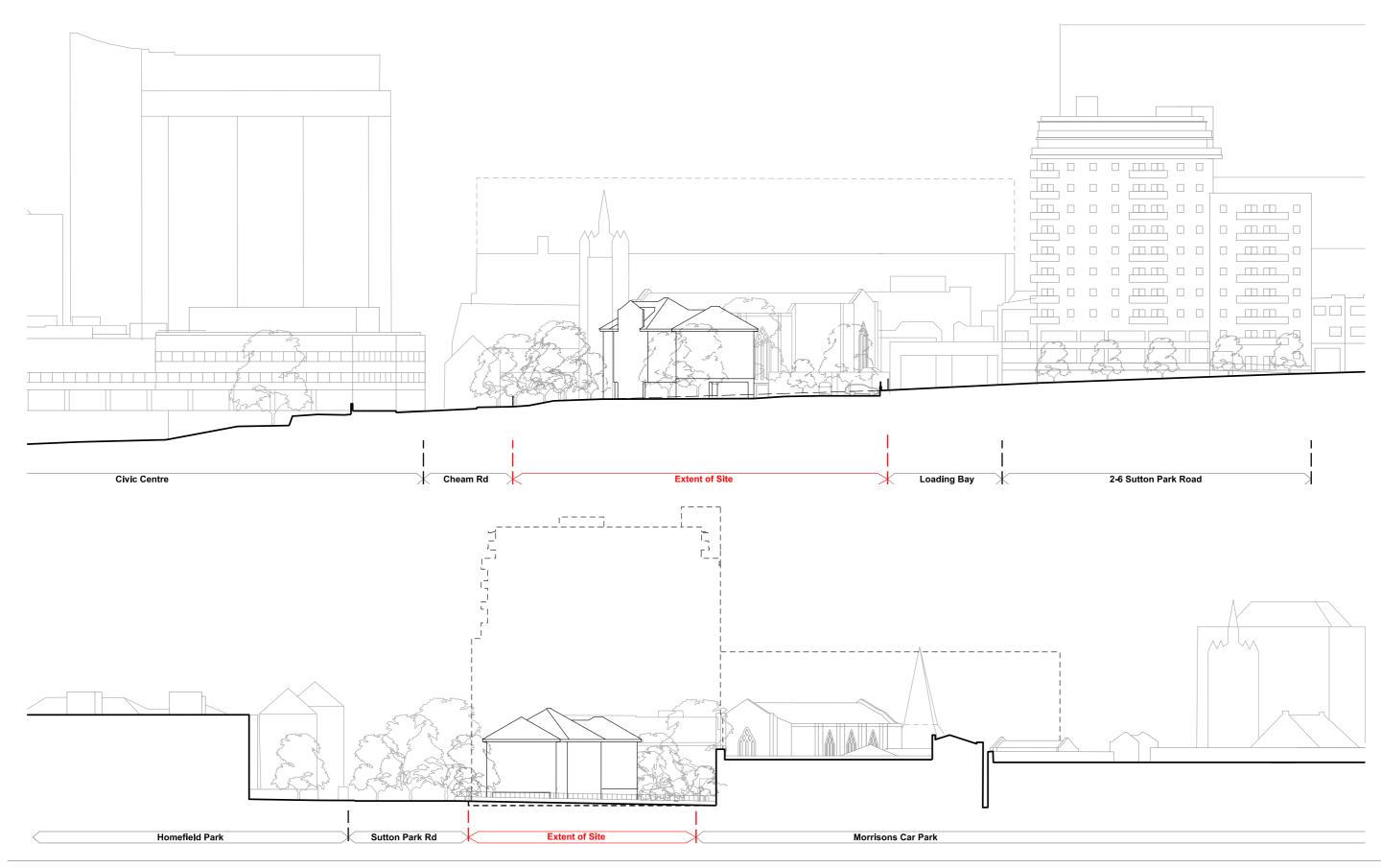
Neighbouring Building Sutton Baptist Church



Neighbouring Building LBS Council and Civic Offices

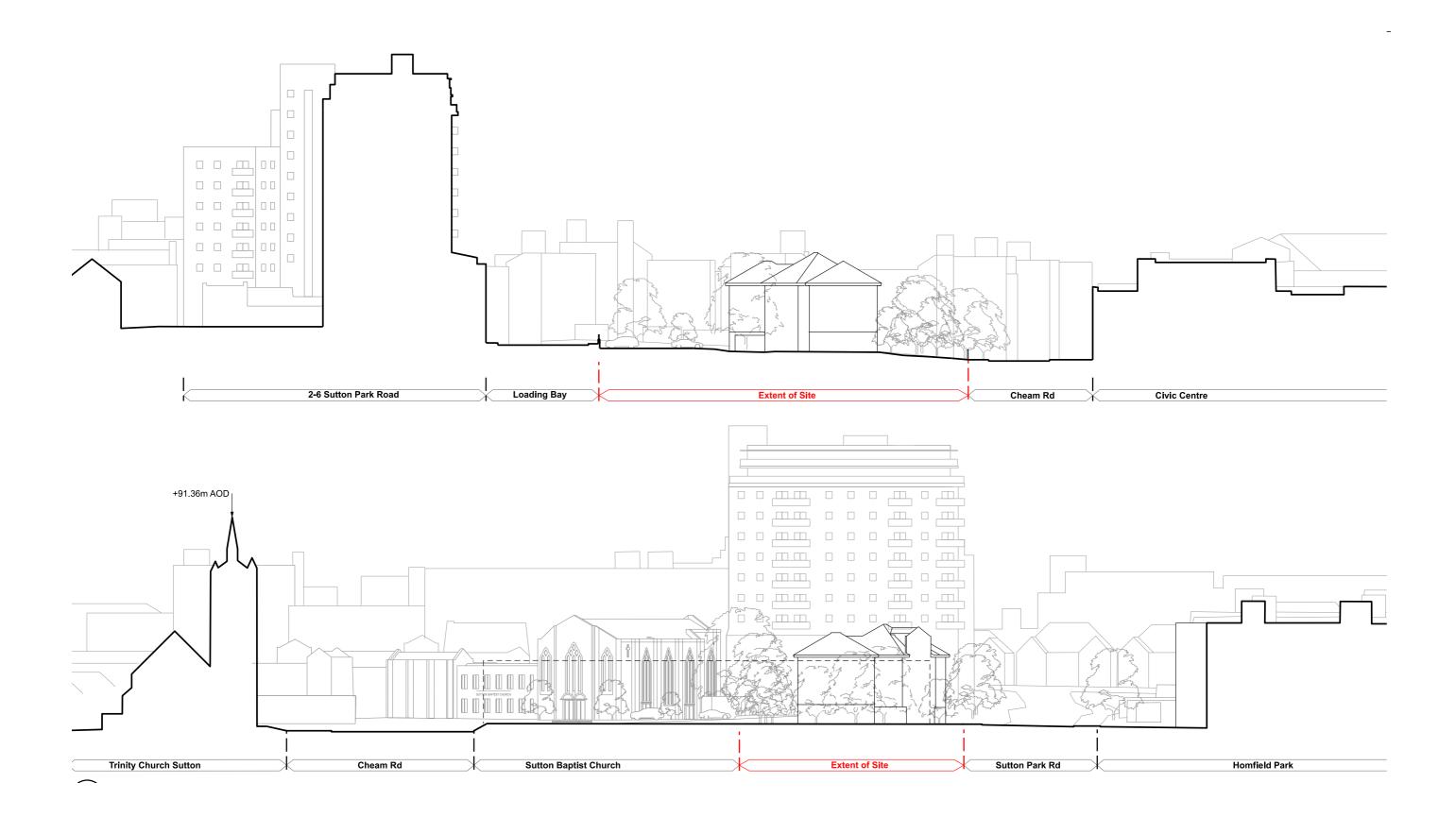
Neighbouring Building Mixed-use building to the south 2-6 Sutton Park Road

EXISTING SITE & CONTEXT

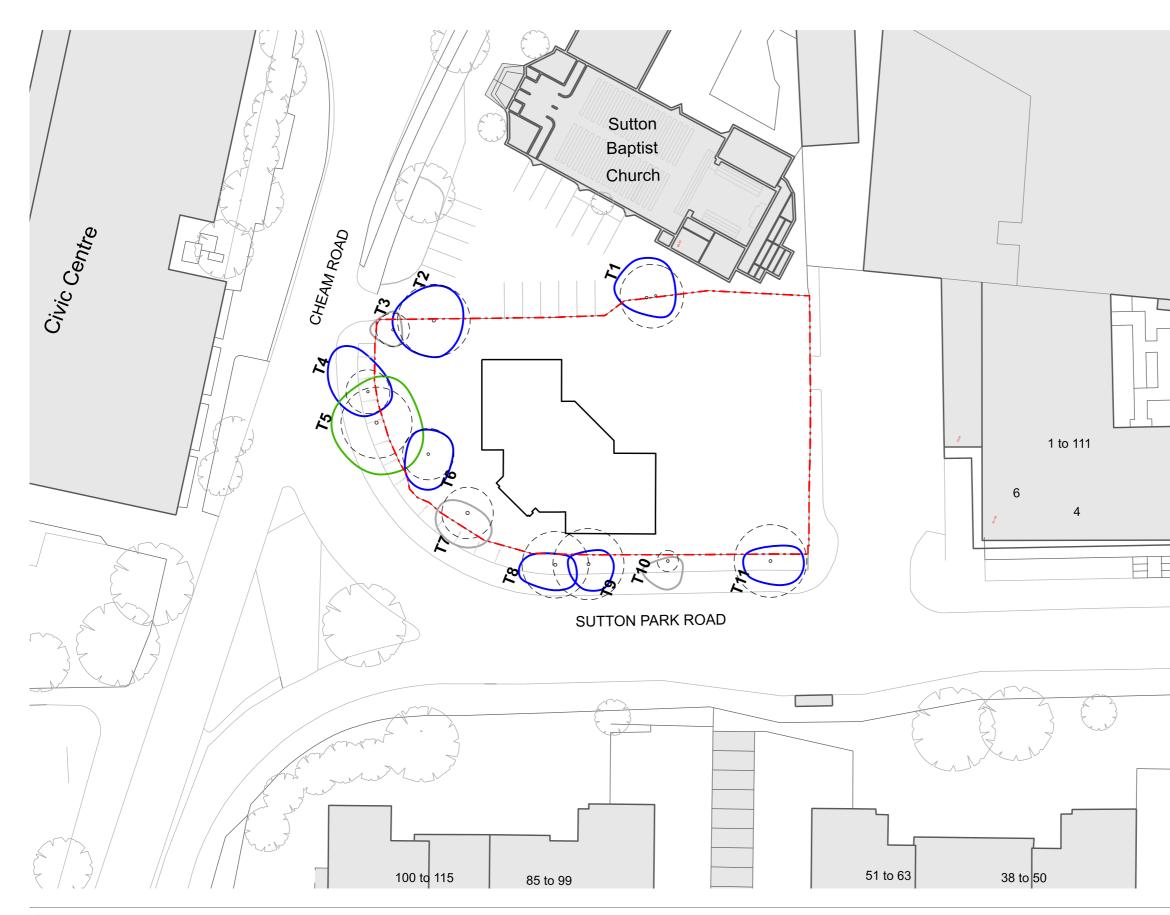


SITE AND CONTEXT

EXISTING SITE & CONTEXT

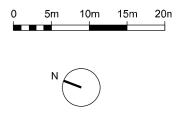


TREE PLAN - SURVEY BY MARCUS FOSTER





T: 0781 2024070 mail@marcus-foster.com www.marcus-foster.com Marcus Foster TREE CONSULTANCY



Tree Categories :



- Category B Trees
 - Category C Trees
 - Category U Trees

RPAs

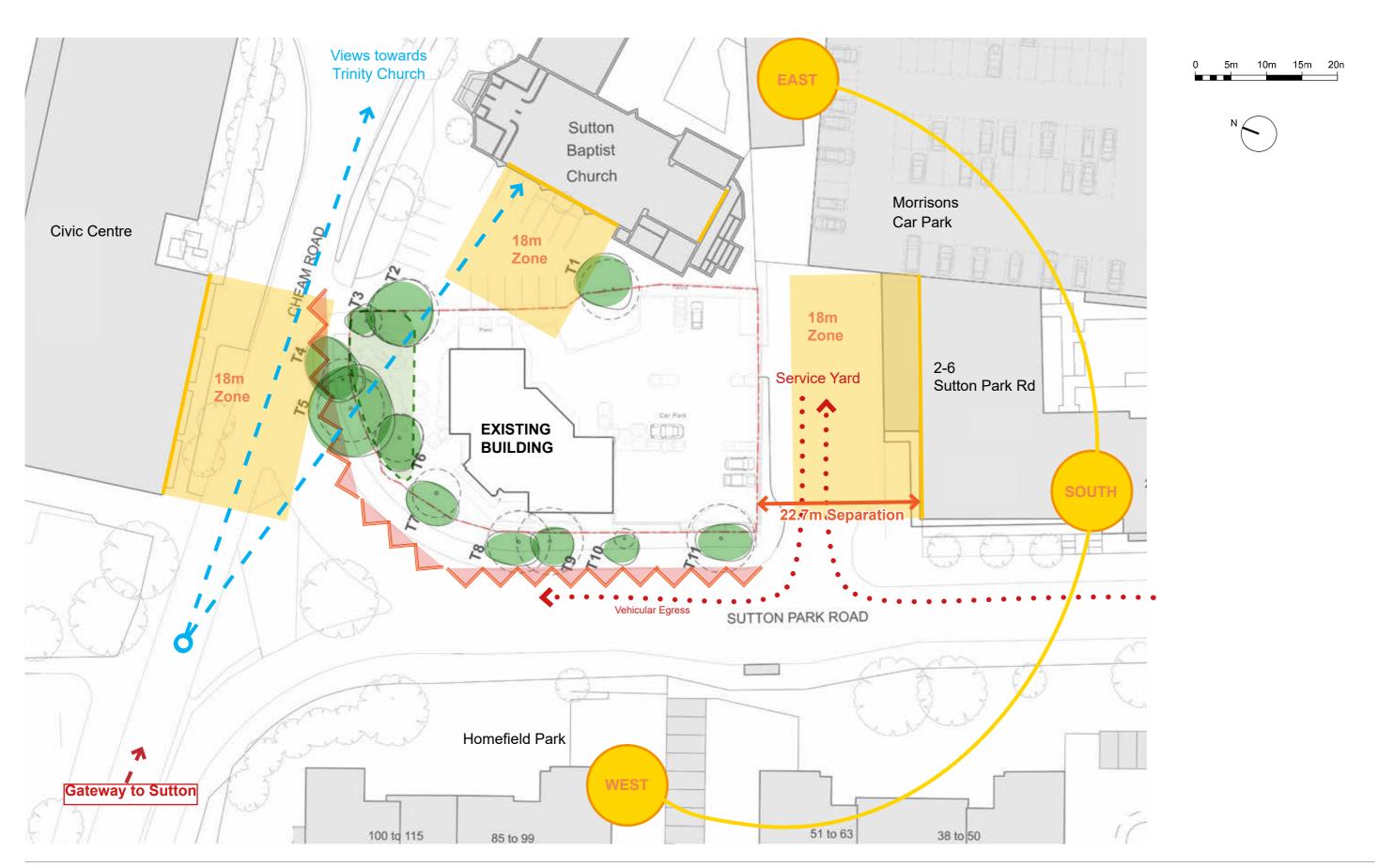


- Tree Species
- T1: Sycamore
- T2: Sycamore
- T3: Norway Maple
- 'Crimson King'
- T4 : Norway Maple T5 : Norway Maple
- T6 : False acacia
- Frisia'
- T7: Judas Tree
- T8: Norway Maple
- T9: Norway Maple
- T10: Alder
- T11: Norway Maple



SITE AND CONTEXT

OPPORTUNITIES AND CONSTRAINTS PLAN



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03. HERITAGE

HERITAGE **SITE DESCRIPTION**

The site is located at City House, Sutton, SM1 2AE.

The site is currently occupied by a three storey building located at junction of Cheam Road and Sutton Park Road with a large picture window and clock face above. The building occupies the north west corner of the Site, mimicking the curve of the junction. The simple structure is three storeys and consists of red brick and a slate roof with plain façades and no remarkable detailing. To the rear of the Site, is a large car park associated with the building.

Directly east of the Site is the neighbouring Grade II* listed Sutton Baptist Church designed by Nugent Francis Cachemaille-Day. To the north, west, and south the Site is mostly surrounded by high-rise apartment blocks and large housing estates.

Further east, is the High Street and the Town Centre Conservation Area.

The Site holds no heritage designations in itself though it is next to the Sutton Town Centre Conservation Area and the Grade II* listed Sutton Baptist Church.



City House, Sutton



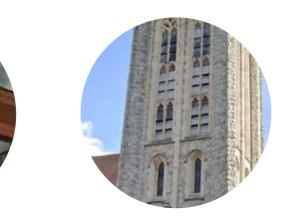
SBC Brick (Sutton Baptist Church) External materials found nearby the site



White Render (2-6 Sutton Park Road)



Red Brick (Cheam Road)



Stone (Trinity Church)

LOCAL CHARACTER & BUILDING TYPOLOGIES



Sutton Baptist Church



St Nicholas Church



Holy Trinity



2-6 Sutton Park Road



Sutton Civic offices

HERITAGE

HERITAGE ASSETS

Heritage Asset Map

The Site holds no heritage designations itself though it is next to the Sutton Town Centre Conservation Area and the Grade II* listed Sutton Baptist Church.

Conservation Areas

- Sutton Town Centre Conservation Area
- Grove Avenue Conservation Area

Grade II* Listed Assets

- Sutton Baptist Church
- Church of St Nicholas

Grade II Listed Assets

- Trinity United Reformed / Methodist Church
- Group of Tombs and Mausoleums in St Nicholas Church Yard
- 101-103 High Street
- The Cock Sign, High Street
- 26 and 28 High Street
- Sutton Police Station
- Sutton War Memorial

Heritage Asset Map Key



Site Boundary Town Centre Conservation Area Grove Avenue Conservation Area Grade II* Grade II Locally Listed



Image 1 - Heritage Assets within a 1km radius of the Site

SUTTON BAPTIST CHURCH



Image 2 - Sutton Baptist Church in September 2022. Authors Own

Sutton Baptist Church

- Sutton Baptist Church was listed at Grade II in March 1980. The listing was amended to Grade II* in April 2018.
- The Church is built out of brick with detailing limited to the buttresses and elegant window forms. The Church is plain in comparison to more traditional churches, such as the Church of St Nicholas and Trinity United Reform.
- Cachmaille Day is well known for his work which • sits within the modernist movements and there are many examples of grander, monumental structures of his work. His work is poised between modernist and gothic, between the Scandinavian and northern German typology.
- Significance wise, the Church is listed primarily on its architectural interest derived from its gothic brick built form. This form typical of continental Europe traditional churches is matched by its spatially striking and unusual interior.
- Experiences of the Church are dominated by the noise and movement of traffic, and has changed beyond recognition from its original construction. It accordingly does not depend upon its setting for its significance to a large extent. There are clear opportunities to better reveal, at street level, the muscular brick detailing of the Church.





Image 4 - Sutton Baptist Church in the AJ (4th October 1934)



Image 5 - Church of St Michael and All Angels (1937) by Cachemaille-Day



Image 6- Church of St Mary, Becontree, 1935 by Cachemaille-Day. Source: RIBA

Image 3 - Albi Cathedral, France by Cachemaille-Day. Source: RIBA

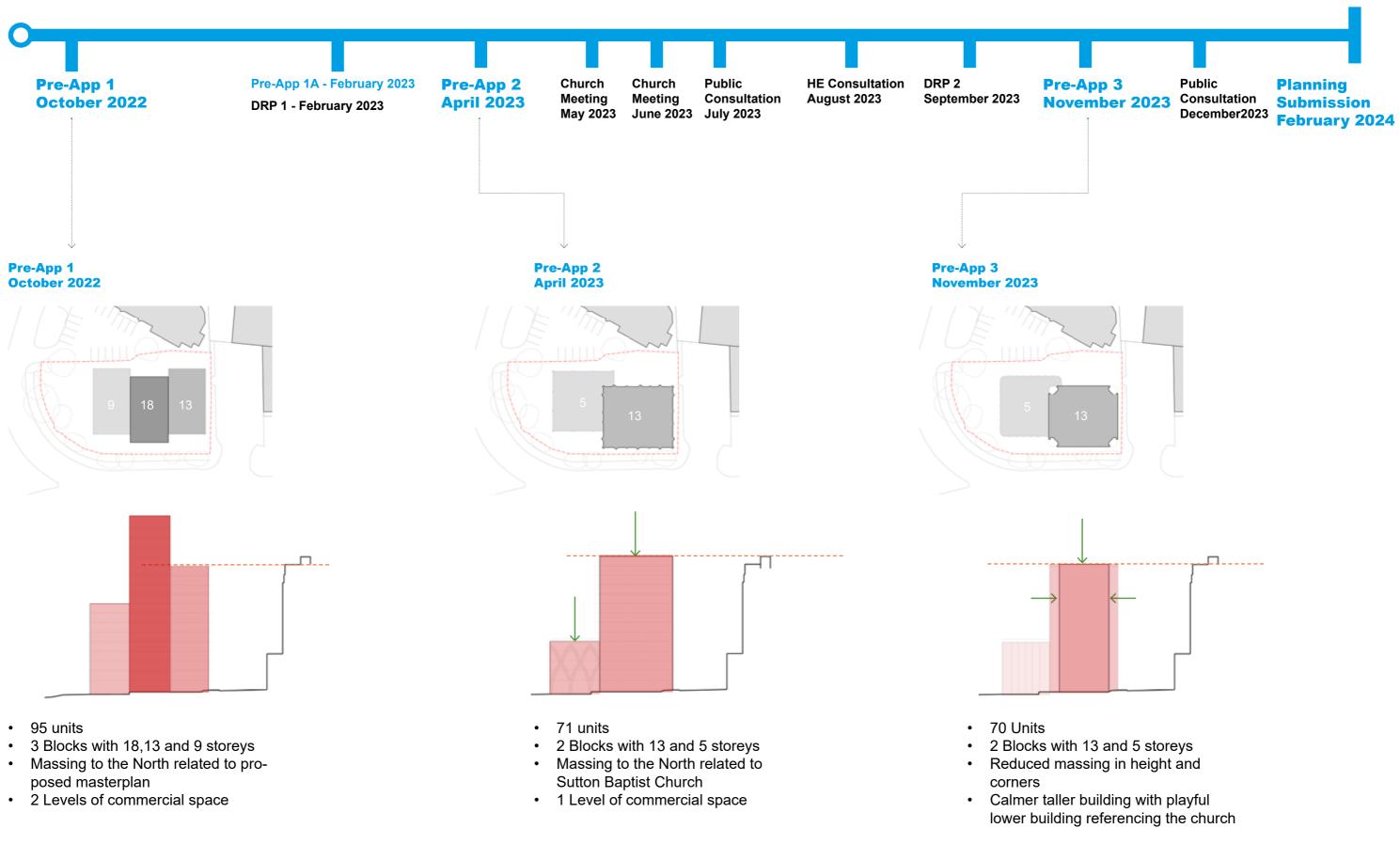


Image 7 - Church of St Saviour, Eltham by Cachemaille-Day. Source: RIBA

04. DESIGN REVIEWS & CONSULTATIONS

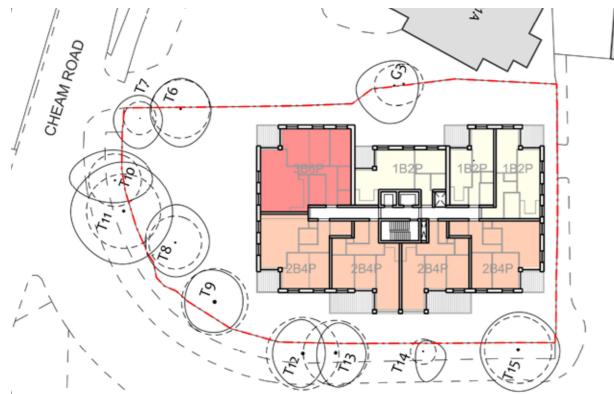
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PROJECT TIMELINE



DESIGN REVIEWS & CONSULTATIONS

PRE-APP 1 AND DRP 1



Key Points :

- 95 Units Scheme
- Part 18, Part 13 and Part 5 Storeys building
- Single tone brick building
- Significant footprint impacting vehicular access
 Proximity to the Church

Typlical low level plan



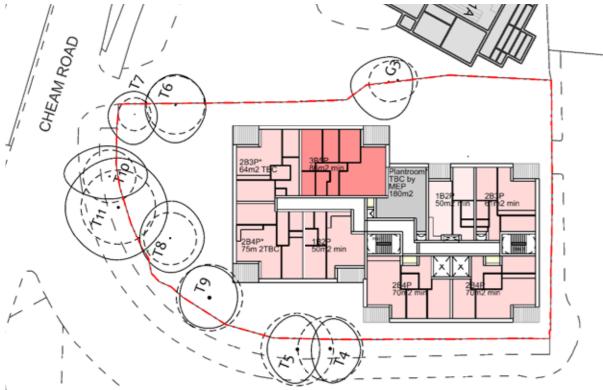
Concept elevation



Massing view

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PRE-APP 2



Key Points :

- 71 Units Scheme
- Part 13, Part 5 Storeys buildingSingle tone brick building
- Arch motif as key feature for the lower building

Typlical low level plan

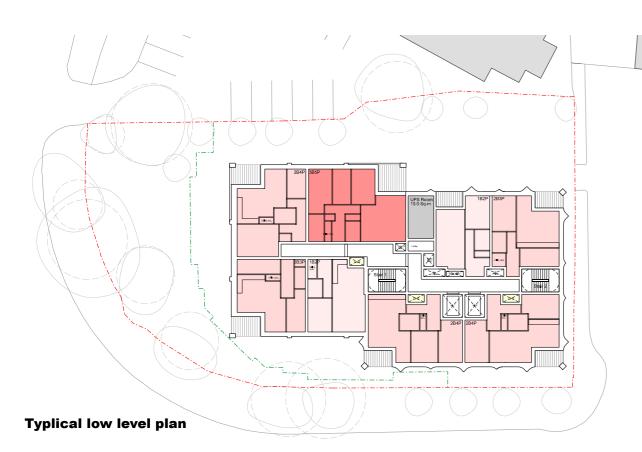


Concept elevation



DESIGN REVIEWS & CONSULTATIONS

DRP 2



Key Points :

- 70 Units Scheme
- Part 13 and Part 5 Storeys building
- Single tone brick building
- Arch motif as key feature for the lower building
 Vertical emphasis to the taller building

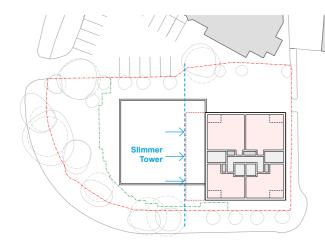


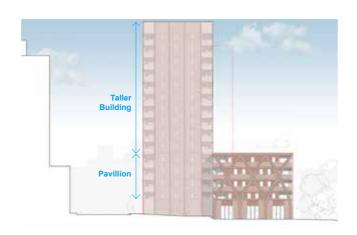
Concept elevation



City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

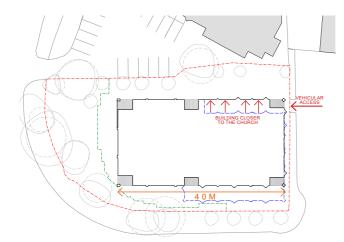
ALTERNATIVE VIABLE MASSING EXPLORED MIN. @ 70 UNITS





Key Points :

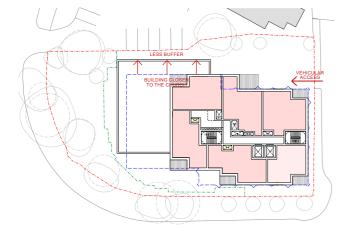
- 4 Units per floor in taller building
- Taller building less efficient (2 stairs & 2 lifts 4 Units)
- 2 Additional storeys to achieve 70 Units
- Financially undeliverable

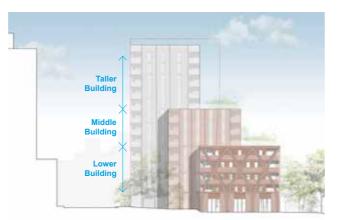




Key Points :

- 40m continuous frontage at ground floor
- Building moved away from Sutton Park Road •
- Taller building closer to the church
- Difficult vehicular access ٠
- Unsuccessful massing / form composition approach





Key Points :

- Massing with two steps (High to Low)
- Lower building closer to the church
- Less buffer between the church and the proposal •
- Unsuccessful form composition

DESIGN REVIEWS & CONSULTATIONS

PRE-APP 3



Key Points :

- Uppermost balconies removed from taller element
- Rear wall scalloped in plan ٠
- Removal of the corner columns, reduces mass and carbon.
- Depth of the façade of the taller element encoraging and has merit ٠
- Two tones brick building (Darker pavillion & lighter taller building)
- Simplification of the fenestration of the taller element to help soften the elevations and reduce the excessive verticality of the taller element.

Typlical low level plan





Concept elevation

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PUBLIC CONSULTATIONS



Public Consultation 1 19th July 2023

- 2,757 Newsletter sent
- 15 people registered
- 7 people attended

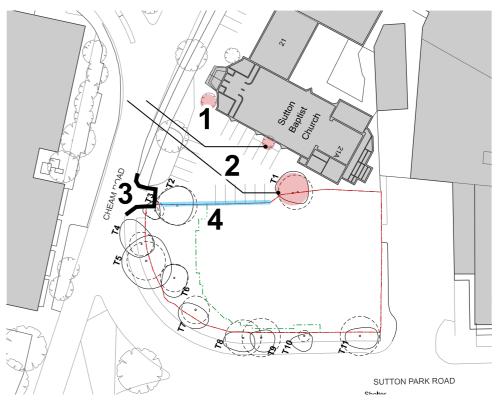
Church Consultation May and June 2023

Since the first DRP and the 2nd preapplication meeting with the Council, Macar has engaged further with the Church to understand what scope there may be to improve the 'V' shaped space between City House and the Church. As indicated in our initial vision, as part of a wider town centre masterplan of public realm improvements, we felt that this space could offer more to the local community in the future as an area of public realm with outdoor seating, new landscaping features and the potential for adhoc outdoor events.

Following numerous meetings, we have learnt that the Church relies heavily upon the car parking spaces they have for revenue as they are leased to users of the Church buildings. We offered a re-designed car park layout that we could implement as part of the development for City House, which included widening the access improving visibility, new retaining wall and a reorganisation of the parking spaces to make them more useable and free up an area of open space to be used for outdoor seating with new hard and soft landscaping.

Unfortunately, after considering our suggestion the Church has confirmed that it does not meet with their mission, and they do not wish for us to take it forward.

- 1. Trees causing subsidence to the church
- 2. Car parking is key revenew
- 3. Dangerous issues with car entrance
- 4. Wall not listed and within own boundary





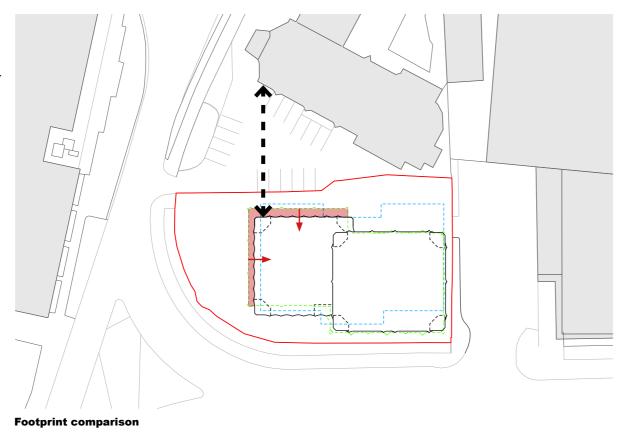
Public Consultation 2 5th December 2023

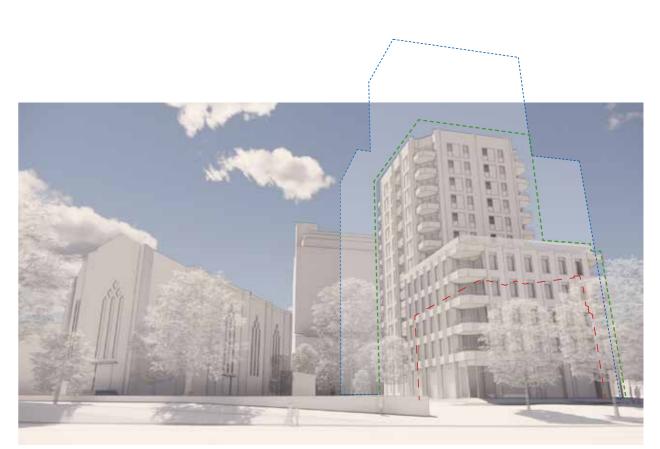
- 2,757 Newsletter sent
- 10 people registered
- 6 people attended

DESIGN REVIEWS & CONSULTATIONS

CURRENT SCHEME - COMPARISON VIEWS

- Massing reduced ٠
- Taller building slightly • lowered
- Pavillion pulled further away and set back from the Church
- Facades simplified





View from Cheam Road (North) - Overlap with Pre-App 1 and Pre-App 2 Proposals



View from Cheam Road (West) - Overlap with Pre-App 1 and **Pre-App 2 Proposals**



View from loading bay - Overlap with Pre-App 1 and Pre-App 2 Proposals

Pre-App 1/DRP 1 Scheme outline

Scheme outline

Pre-App 2

05. SUSTAINABILITY

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SUSTAINABILITY

ENERGY AND SUSTAINABILITY

Embodied Carbon

Aspirational Benchmark: 800 kgCO2e/m2GIA [A-C] 60kWh/m2GIA year operational energy

Strategy:

The proposed development employs 'long life, loose fit, low carbon' design principles to minimise whole life carbon, including optimised grid spacing and durable material specifications. The proposal includes a fully electrified energy scheme and ambitions for on-site renewable energy generation. A whole-life carbon assessment has been carried out using OneClick LCA to identify embodied and in-use carbon hotspots and to provide further recommendations for the minimisation of whole life carbon.

Circular Economy

Minimum targets:

- 95% of demolition, excavation and construction waste diverted from landfill;
- 65% municipal waste recycling rate by 2030;
- 20% building elements recycled or reused

Emerging strategy:

The proposed development has been designed according to the 'building in layers' framework outlined in the London Plan, with waste minimisation and resource efficiency principle embedded in the design of each independent layer and the building as an integrated structure. The decision trees provided in the London Plan Circular Economy guidance have been used to identify the most appropriate CE design principles to employ on both the existing structure at the City House site and the new development. These strategies include the provision of best-practise waste management segregation protocols during demolition and construction and designing the new development for longevity by specifying durable materials. During operation, municipal waste management provision will be provided to meet the requirements of the 'London Borough of Sutton and The Royal Borough of Kingston - Recycling & Waste Planning Guidance (2023)'. A materials circularity assessment has been carried out on the early-stage bill of materials using OneClick LCA's GLA Building Circularity tool to provide recommendations for alternative materials specifications to ensure the 20% recycled or reused target has been met.

Operational Carbon

Targets:

- 35% below Part L 2021 overall carbon on-site reductions
- 10% Below Part L 2021 for apartments
- 15% below Part L for office areas for energy efficiency (Be Lean) 18% Achieved (Design Stage)

Emerging strategy:

Fabric first approach with centralised heat pump system supplying the whole building with space heating and hot water, with a connection point to a future heat network, supplied by rooftop PV array. The GLA target will be exceeded with the residential performance expected to achieve >50% below Part L (2021). Zero carbon will be achieved by the offset of the remaining emissions.

Water Consumption

Minimum targets:

- Residential : 105l/person/day
- Commercial : BREEAM excellent standard for the Wat 01 water category

Strategy:

The development will meet these targets through the adoption of high efficiency equipment specification.

Overheating

Residential: CIBSE TM59 Standard Commercial : CIBSE TM52 Standard

All sampled units pass the TM59 Standard All areas pass the TM52 Standard

Strategy:

The overheating strategy for the development includes large openable window areas and effective solar control through a self-shading building form (via balconies and reveals) together with high performance glazing (g value 0.4). Exposed thermal mass has been applied to the main living areas which benefit from cross flow night-cooling ventilation from secure openable windows. Bedrooms are designed to remain cool without the bedroom windows being opened, in order to minimise noise, through the use of mechanical ventilation with heat recovery with supplementary cooling.

BNG

Minimum targets:

10% Improvement 10.86% Achieved

Strategy:

An initial Ecology Assessment has been carried out to establish the base line for BNG. A Biodiversity Net Gain calculation has been produced by ArbTech on which recommendations to deliver 10.86% Net Gain BNG have been proposed.

65% Achieved (Design Stage) 14% Achieved (Design Stage)

• UGF

Minimum targets: 0.4

0.41 Achieved

Strategy:

The Urban Greening Factor calculations produced by Philip Cave Architects have resulted in 0.41 which complies also with GLA Policy G5 for Urban Greening Factor.

BREEAM

Target: Excellent

On track to achieve BREEAM Excellent (Pre-Assessment)

Strategy:

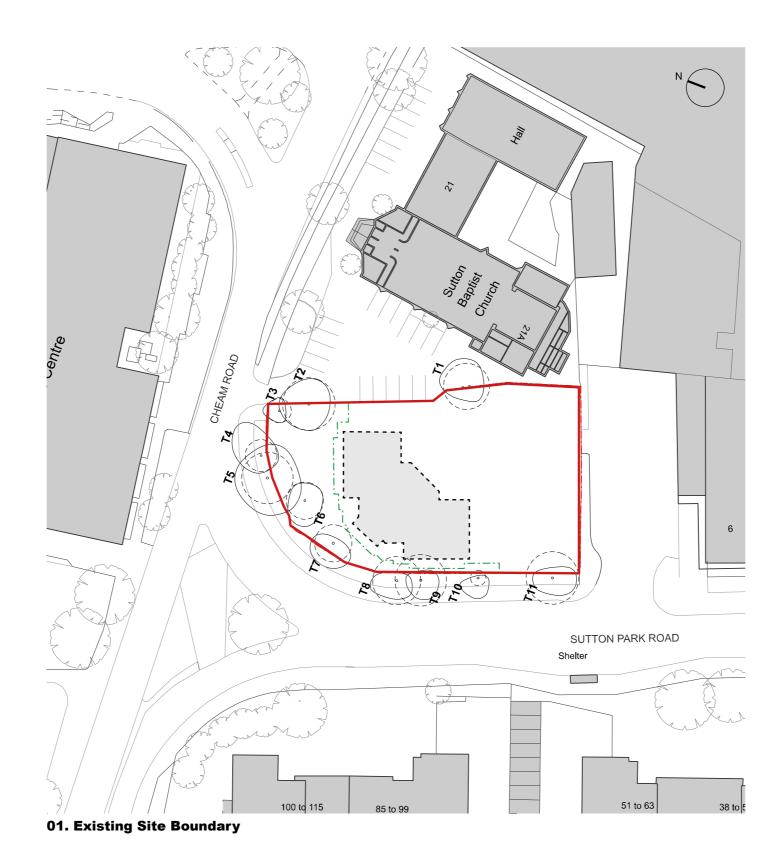
A pre-assessment has confirmed the scheme is on track to achieve BREEAM Excellent in the commercial areas.

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06. PROPOSAL

PROPOSAL

SITE APPROACH DIAGRAMS



City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

SITE APPROACH DIAGRAMS

Tree references:

T2 - Sycamore T3 - Norway maple 'Crimson king' T4 - Norway Maple T5 - Norway Maple T6 - False acacia 'Frisia' T7 - Judas tree T8 - Norway maple T9 - Norway maple T10 - Alder	CAT : B CAT : C CAT : C CAT : B CAT : A CAT : B CAT : C CAT : B CAT : B CAT : C CAT : C CAT : C
---	--

Tree Survey by Marcus Foster



View 3

PROPOSAL

SITE APPROACH DIAGRAMS

Tree references:

CAT : B
CAT : B
CAT : C
CAT : B
CAT : A
CAT : B
CAT : C
CAT : B
CAT : B
CAT : C
CAT : B

New Trees

12 New trees are proposed



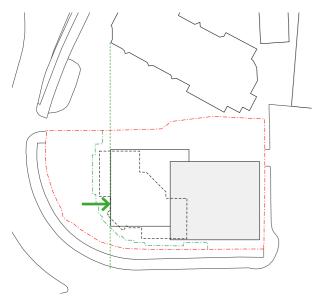
03. Context reference / push & pull

 \rightarrow Opportunity for new trees to be planted

 \rightarrow Trees to be removed and opportunity for new trees to be planted

SITE APPROACH DIAGRAMS

Existing building and proposed building overlay



The proposed building sits further away from Cheam Road. Opening the views to/from the Church.



View 3

 \rightarrow New trees to be planted

 \rightarrow New trees to be planted

View 4 - Trinity Square

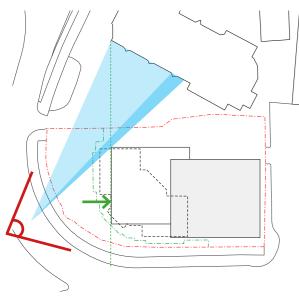
Height related to 4 Sutton Park Road

Height related to Sutton Baptist Church

PROPOSAL

CONCEPTUAL SKETCH

Existing building and proposed building overlay



The proposed building sits further away from Cheam Road. Opening the views to/from the Church.

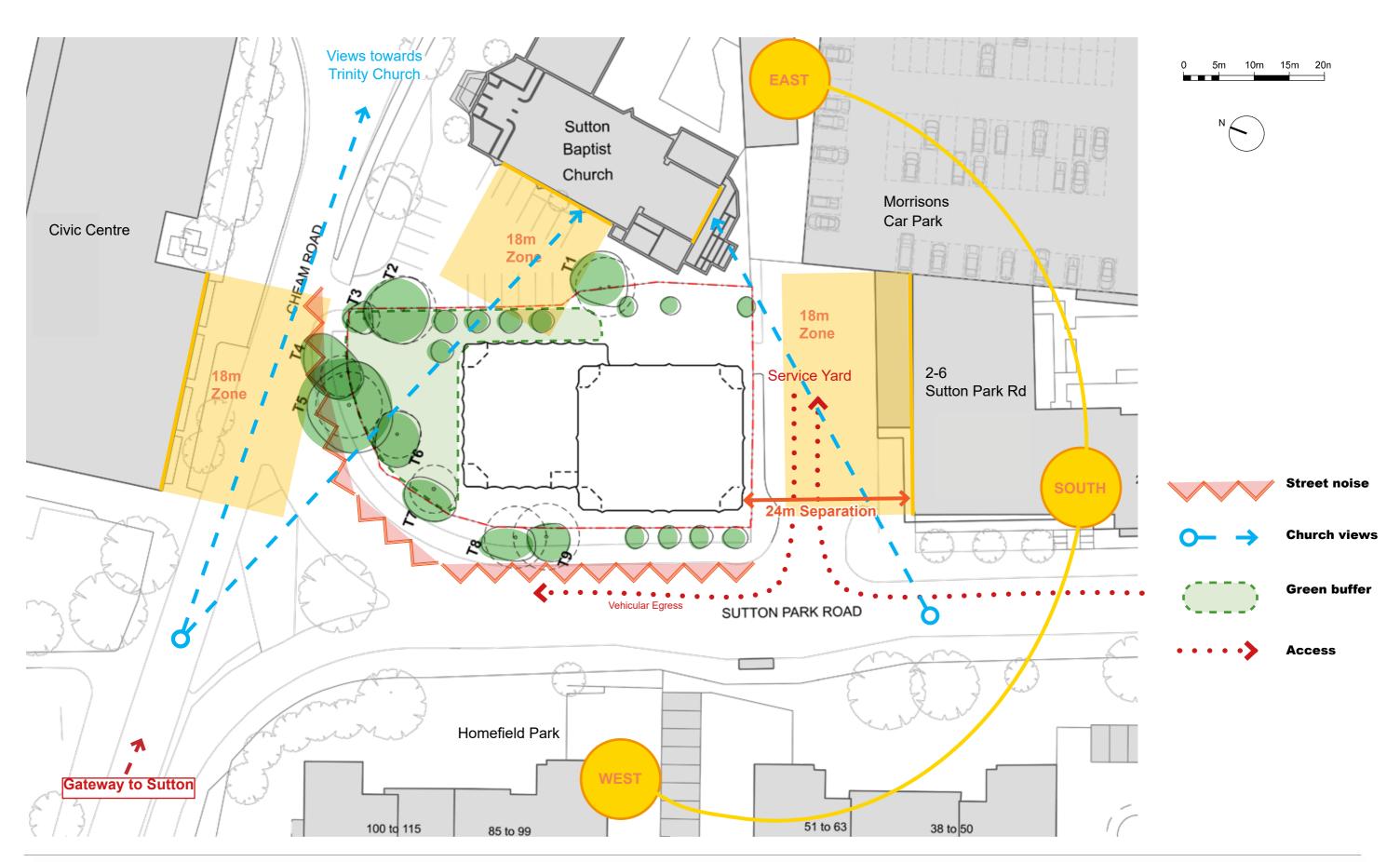


Conceptual Sketch of the space between the building and the church



Conceptual Sketch of the front area

OPPORTUNITIES & CONSTRAINTS - PROPOSED



PROPOSAL

FUTURE

Futureproofing the site

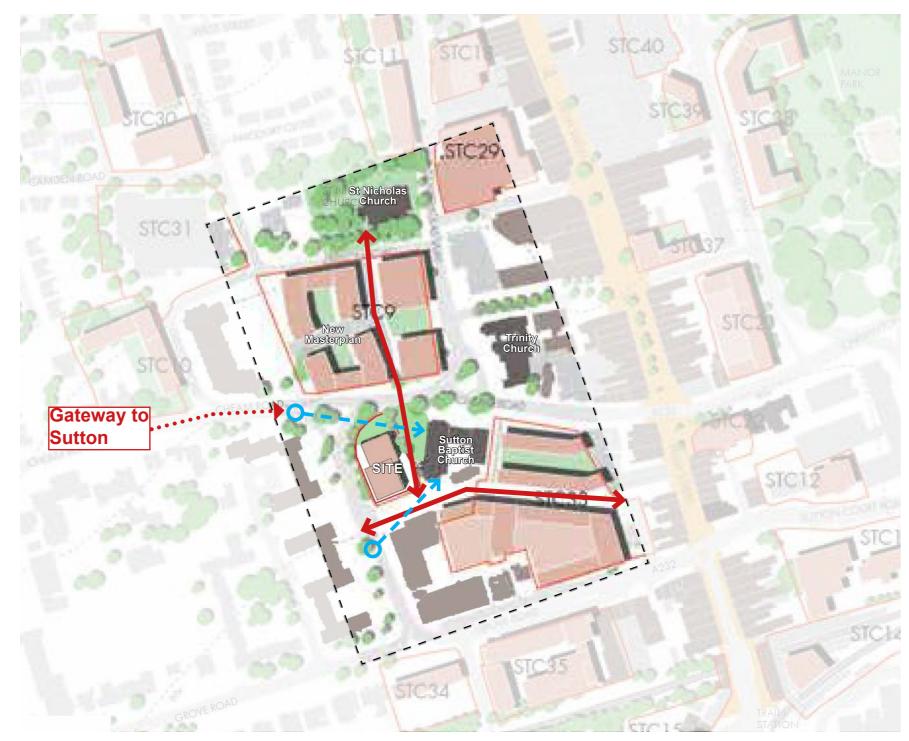
The proposals align with the principles outlined in the Sutton Masterplan, emphasizing future-proofing, linking routes, vistas, green spaces, and public areas. The redevelopment of the site along with the Civic Centre and the Morrisons site are key aspects of the masterplan, that both form a gateway into Sutton along Cheam Road as well as aiming to strengthen connections between the three listed churches and enhance public routes and spaces.

Macar has been involved in the pre-application process, collaborating with the Church to improve the 'V' shaped space between City House and the Church. Despite the Church's receptiveness, the current obstacle lies in the financial contribution from parking income. The Church is therefore not presently able to move forward with the proposed changes but hasn't ruled out the possibility of reconsideration in the future.

As a result, the current focus of the proposals is on areas within Macar's control, ensuring that they can contribute to the overall vision of a more cohesive public realm and potential of improved cycle and pedestrian routes. The intention with the proposals is to allow for potential future connections and the realization of the broader masterplan.



Sketch presented for DRP 1 - Potential V-shape improvement



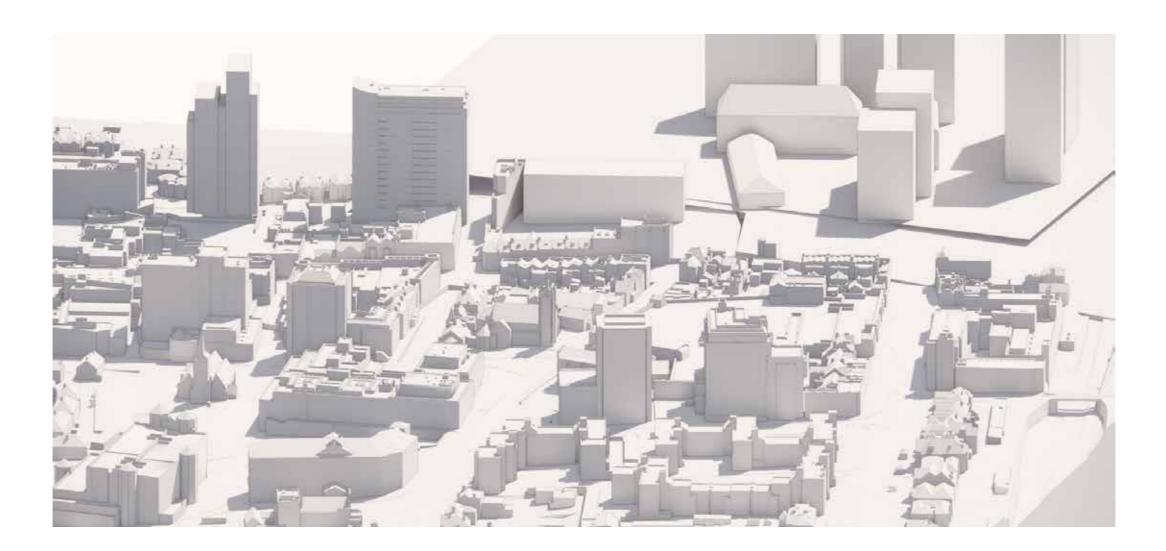
Extract from Masterplan indicating proposed scheme and relevant linking routes

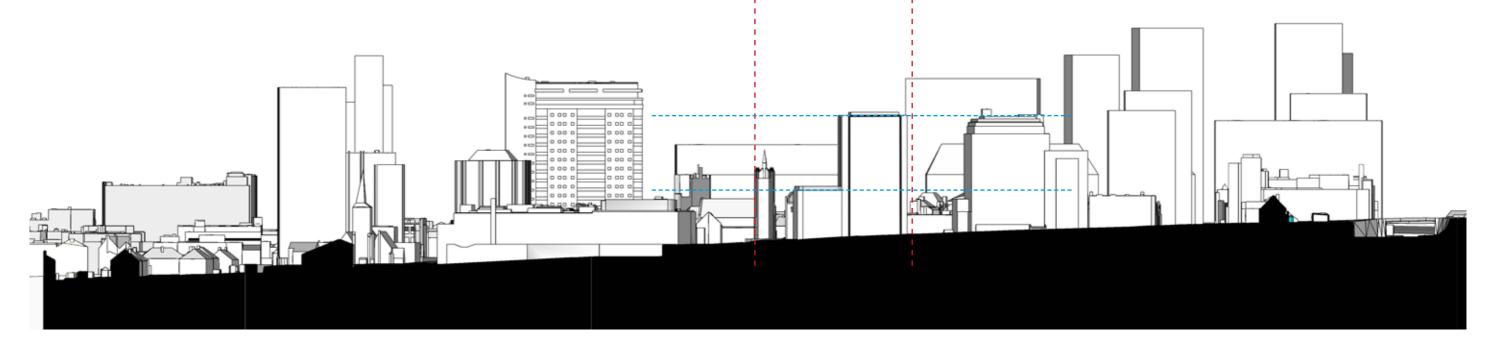
07. HEIGHT & MASSING

City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

HEIGHT & MASSING

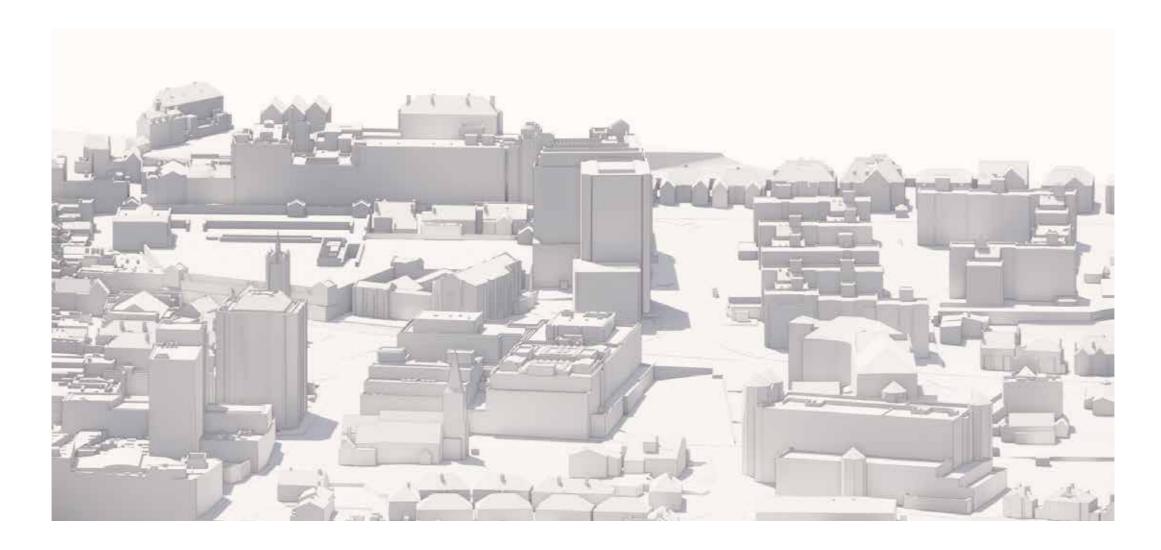
PROPOSED CONTEXT N-S DIRECTION

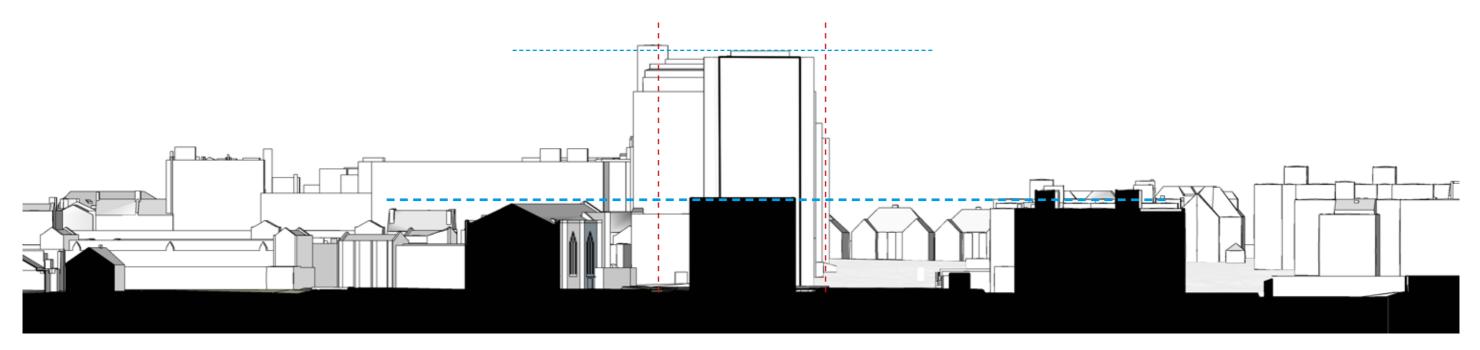




City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

PROPOSED CONTEXT E-W DIRECTION





HEIGHT & MASSING

DAYLIGHT & SUNLIGHT ASSESSMENT - WALDRAMS

Daylight and Sunlight Conclusions

2-6 Sutton Park Road

The analysis shows that the neighbouring church and 74-139 Homefield Park both meet the BRE Guidelines' recommendations for daylight and sunlight with the proposal in place.

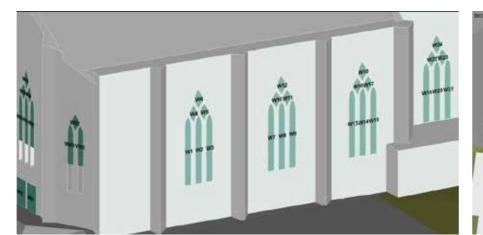
At 2-6 Sutton Park Road, analysis of the comparison of the proposed and alternative baseline positions demonstrates that many rooms and windows experience improvements against the alternative baseline position and that, where some larger impacts occur, these are primarily the result of overhanging balconies restricting access to daylight. As such, the daylight and sunlight position for all neighbouring residential or pastoral properties is considered acceptable in our opinion.

Internally, 87% of rooms meet their target daylight value. Where living rooms do not meet their target value, this is primarily due to the provision of private amenity spaces in the form of balconies. Given that the significant majority of rooms meet their target daylight value and that all units are provided with a private amenity space, the daylighting is considered acceptable overall.

83% of units meet the target sunlight value. The BRE Guidelines acknowledge that not all units can be south-facing in larger developments and, where units do not meet the target value, they are positioned on a corner of the proposal to maximise sunlight access as per the BRE Guidelines' recommendations. As such, the sun lighting across the proposal is considered acceptable.

Sutton Baptist Church

In overshadowing terms, the church playground and both proposed amenity spaces all meet the target sunlight amenity value.



Church windows analysis



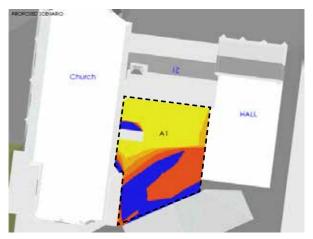
Church



Proposed Building



Alternative Baseline - Existing Condition Mirrored



Proposed playground condition

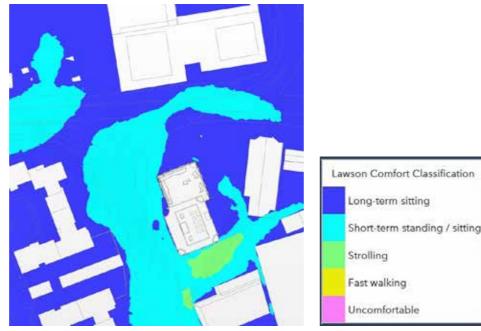
WIND AND MICROCLIMATE ASSESSMENT BY ARCAERO



Massing assessed for wind and microclimate

Conclusions :

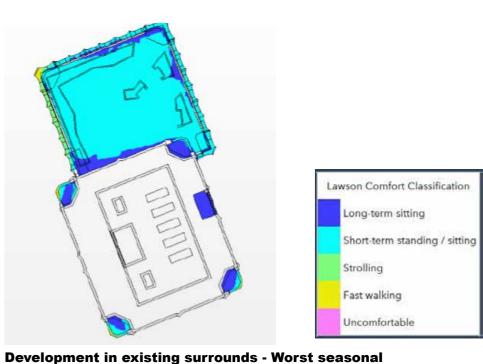
- Upon the introduction of proposed development with soft landscaping in place, wind conditions remain safe and comfortable for intended uses, both on the ground within and around the Site, as well as at the amenity spaces on the fifth floor terraces.
- With the introduction of the cumulative surrounds, • wind safety and comfort conditions remain materially similar to that of the proposed development within existing surrounds scenario.



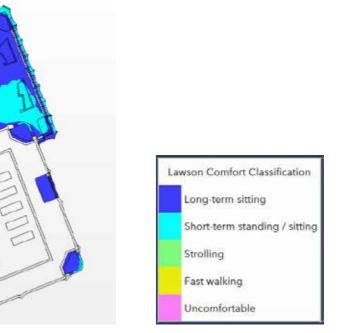
Development in existing surrounds - Worst seasonal



Development in existing surrounds - Summer







Development in existing surrounds - Summer

08. FORM AND ARCHITECTURAL TREATMENT

City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

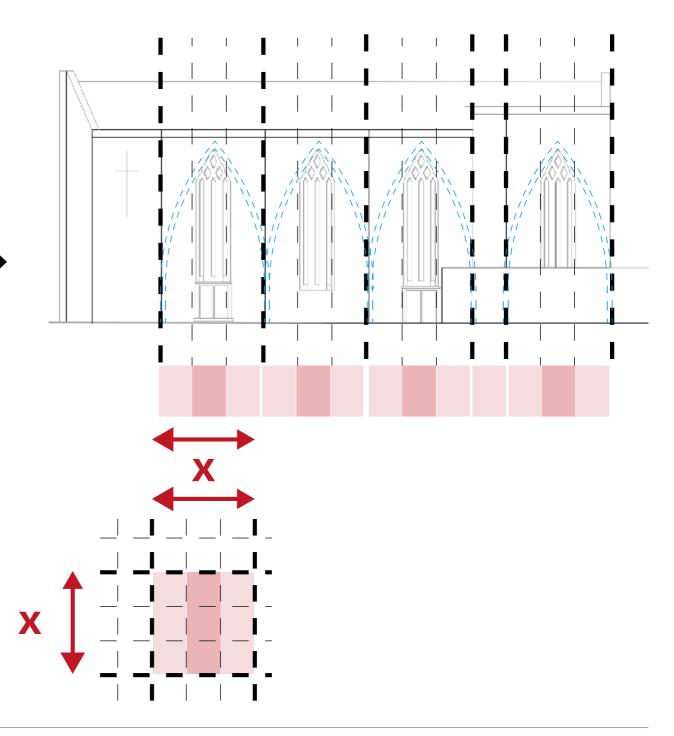
REFERENCE TO SUTTON BAPTIST CHURCH - GRID

Sutto Baptist Church

Grids

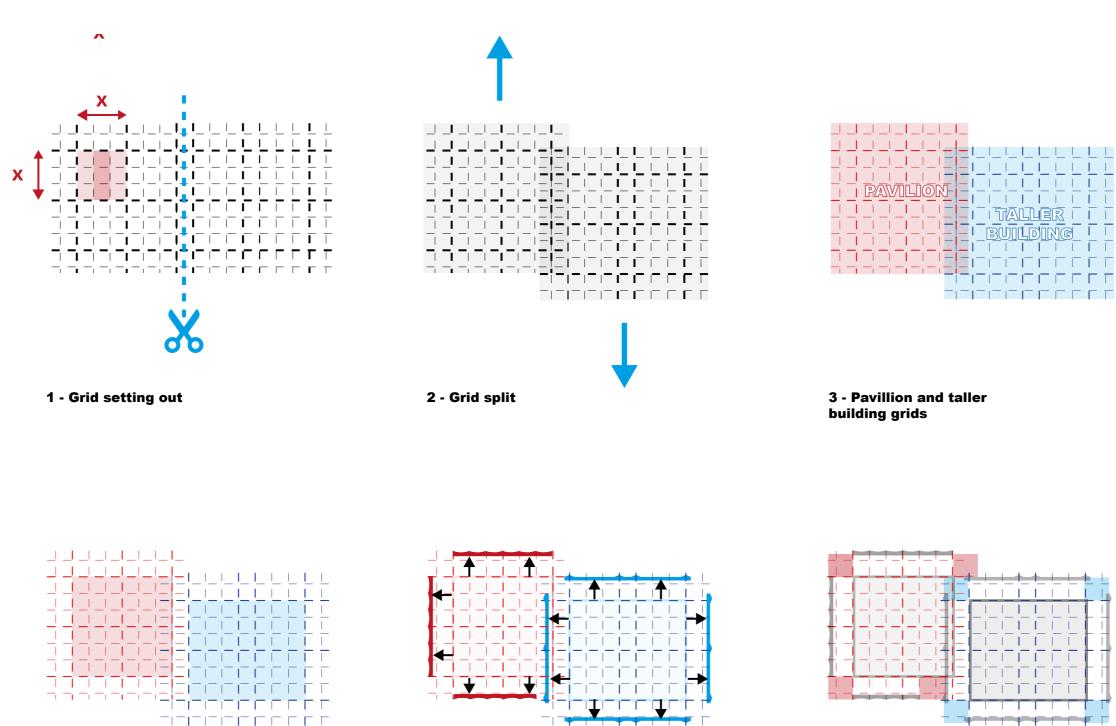
- Primary following piers - Secondary following fenestration proportion (Thirds)

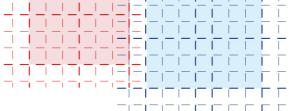




FORM AND ARCHITECTURAL TREATMENT

REFERENCE TO SUTTON BAPTIST CHURCH - GRID





4 - Building concept

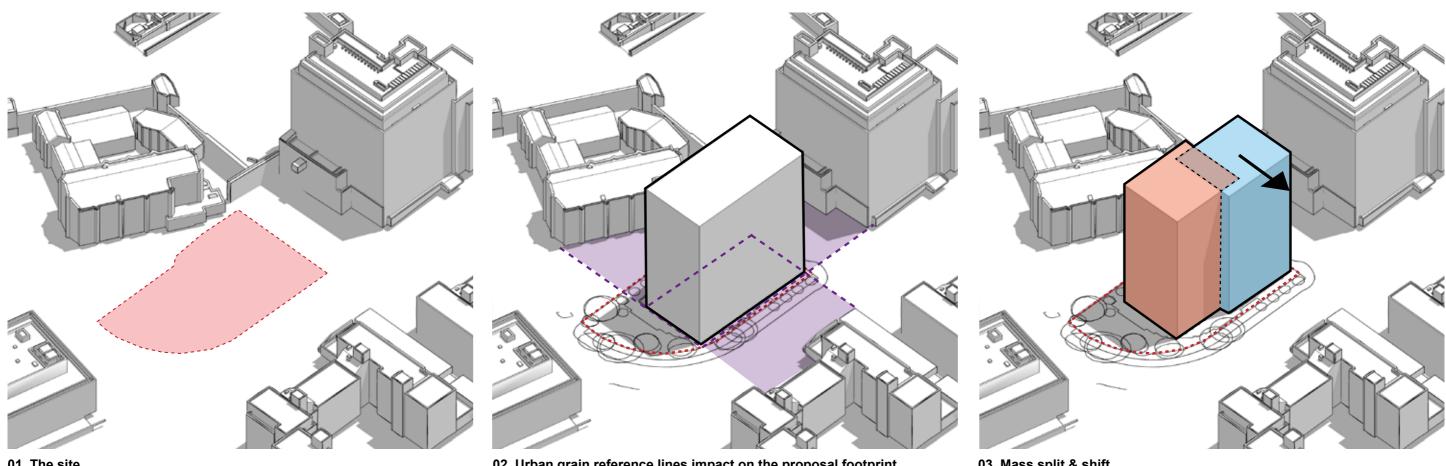
5 - Facade articulation

6 - Balcony positions

MASSING DEVELOPMENT DIAGRAMS

These concept diagrams illustrate how the proposed massing has been arrived at starting with a simple extrusion of the site footprint and subsequent refinement and adjustments of the mass.

The siting of the massing was considered in consultation process with the Council and Design South East.





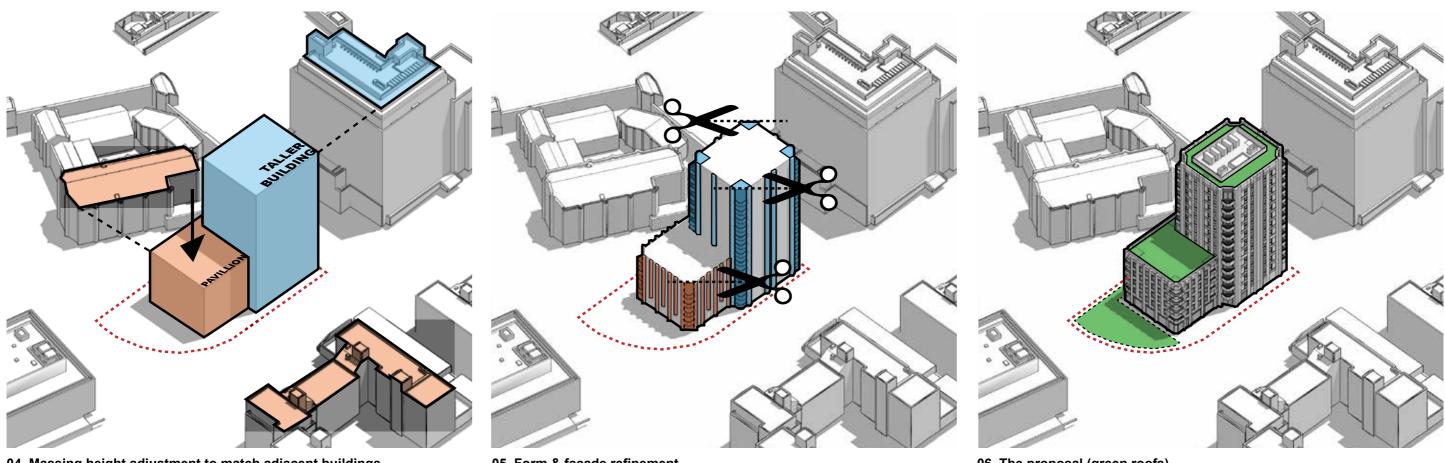
02. Urban grain reference lines impact on the proposal footprint

03. Mass split & shift

FORM AND ARCHITECTURAL TREATMENT

MASSING DEVELOPMENT DIAGRAMS

The refinement of the massing by omitting the corners of the taller element accentuate the slimness and proportions of the taller element.



04. Massing height adjustment to match adjacent buildings

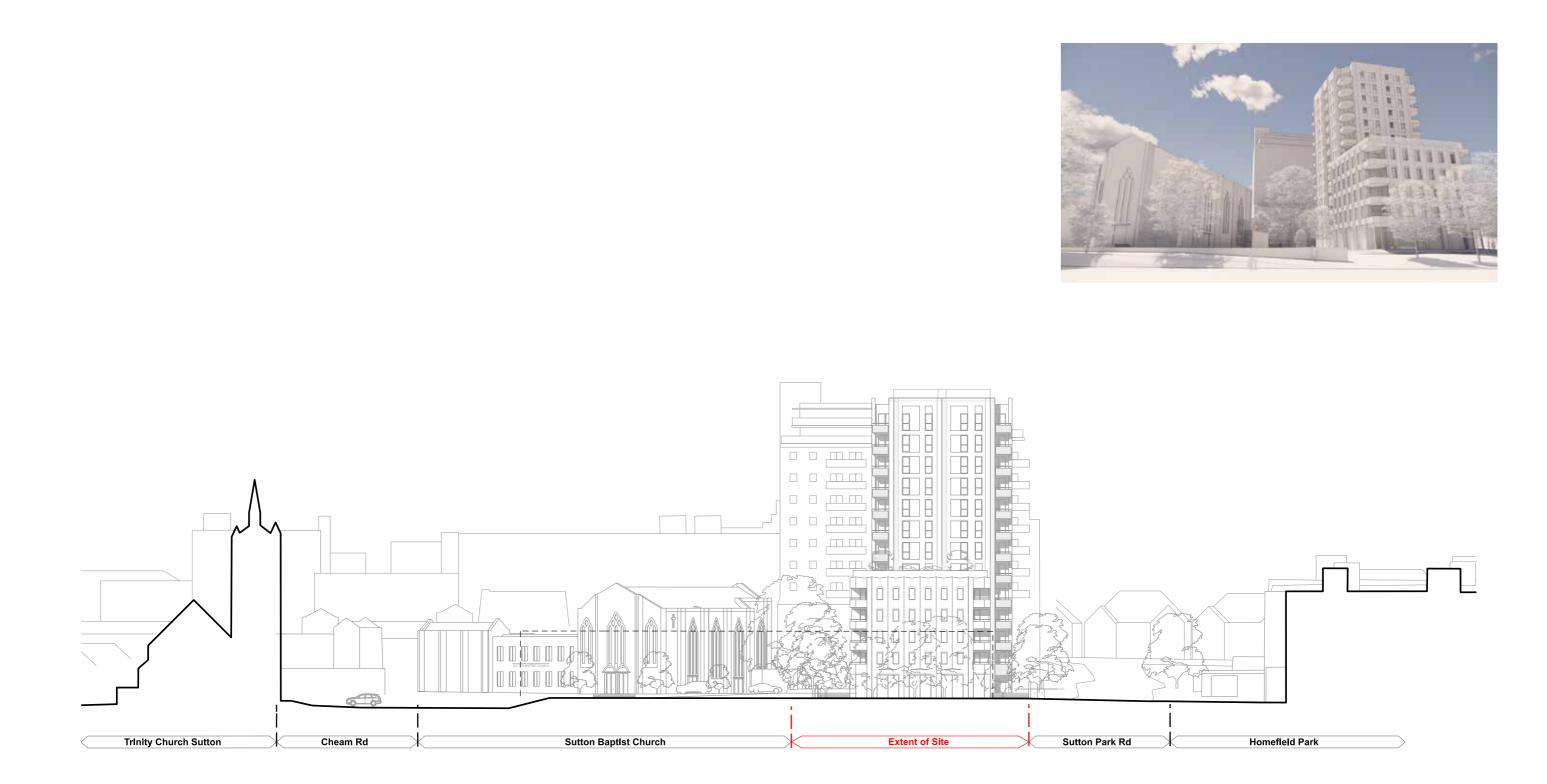
05. Form & facade refinement

06. The proposal (green roofs)

CONTEXT ELEVATIONS



CONTEXT ELEVATIONS



ELEVATION STUDIES - TALLER BUILDING



Internal Arches



Brick piers detail



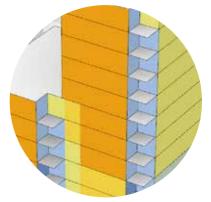
Piers accentuating verticality



Detail Bay - West Elevation - Entrance area



Detail Bay - East Elevation - Top of building



Recessed balconies to improve potential overheating



FORM AND ARCHITECTURAL TREATMENT

ELEVATION STUDIES - PAVILLION



Darker Brick



Curved Brick Piers





Vertical Windows





Detail Bay - West Elevation - Entrance area



Detail Bay - East Elevation - Top of building



Brick details

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EAST ELEVATION



FORM AND ARCHITECTURAL TREATMENT

NORTH ELEVATION



North

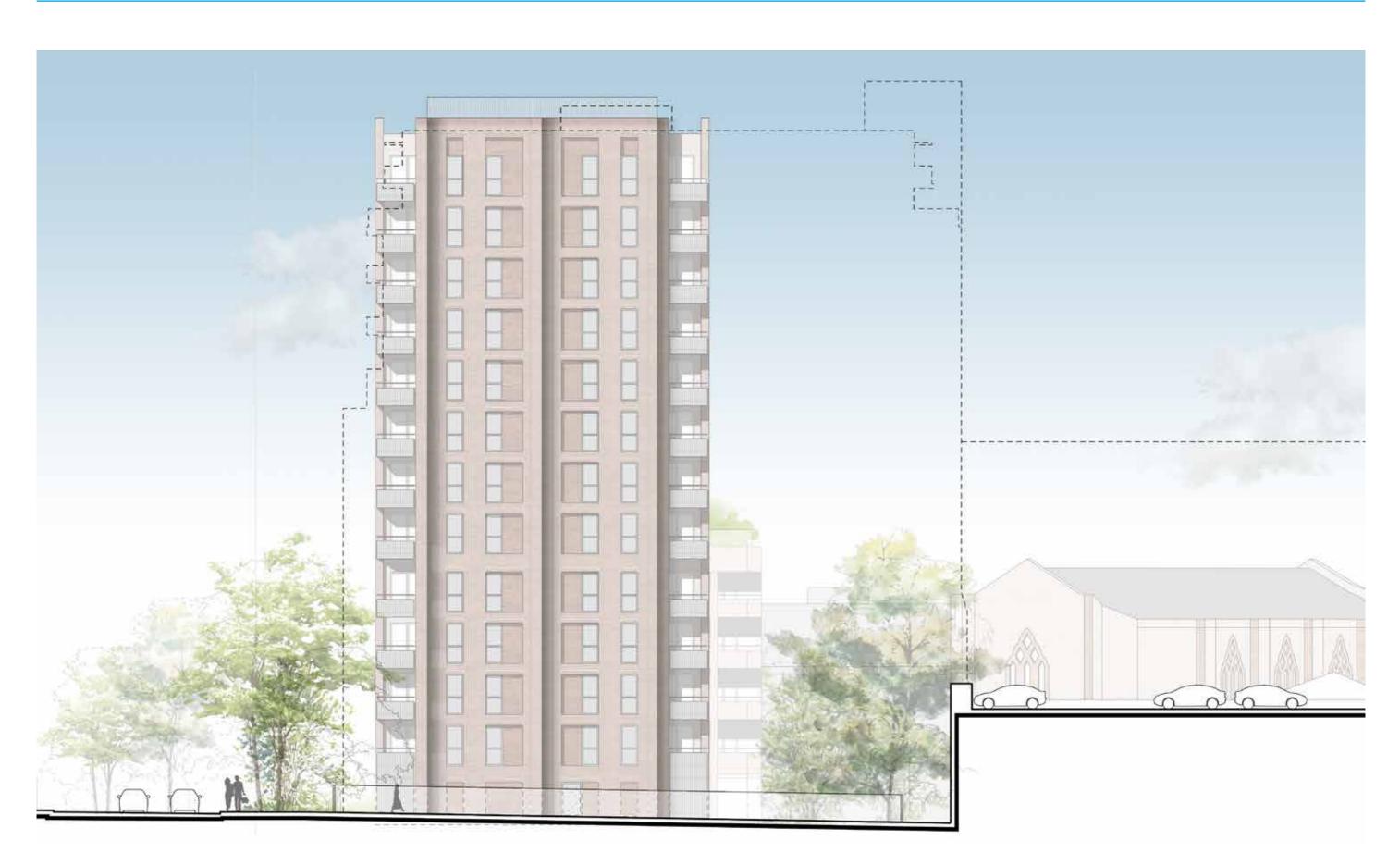
City House Sutton Park Road, Sutton, SM1 2AE | Wimshurst Pelleriti

WEST ELEVATION



FORM AND ARCHITECTURAL TREATMENT

SOUTH ELEVATION

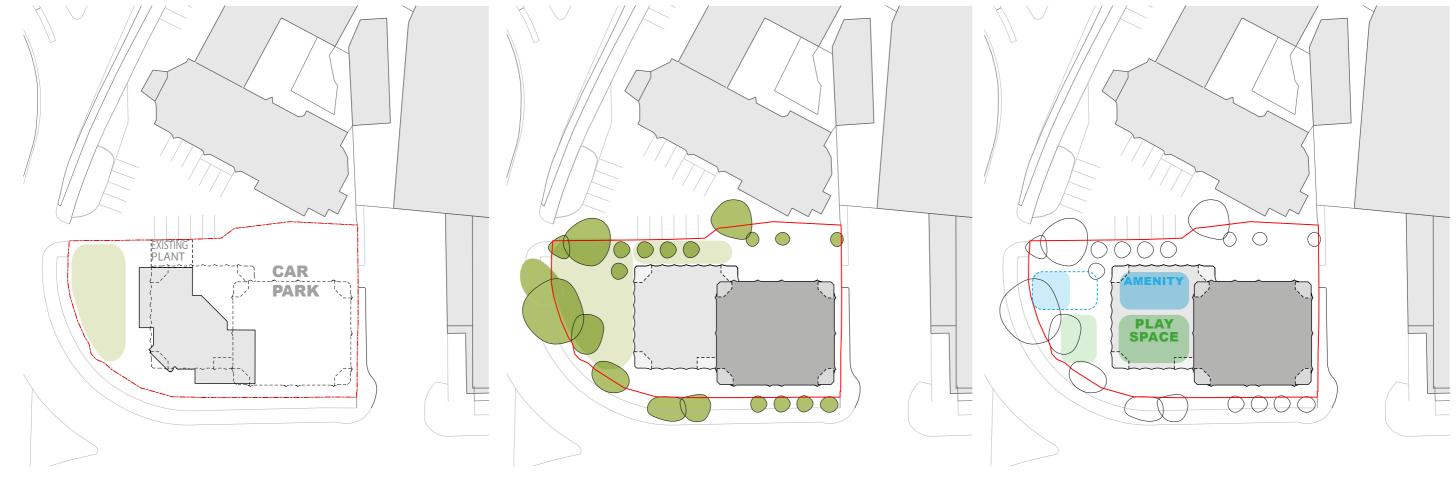


09. AMENITY AND CHILD PLAY SPACE

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AMENITY AND CHILD PLAY SPACE

AMENITY & CHILD PLAY SPACE

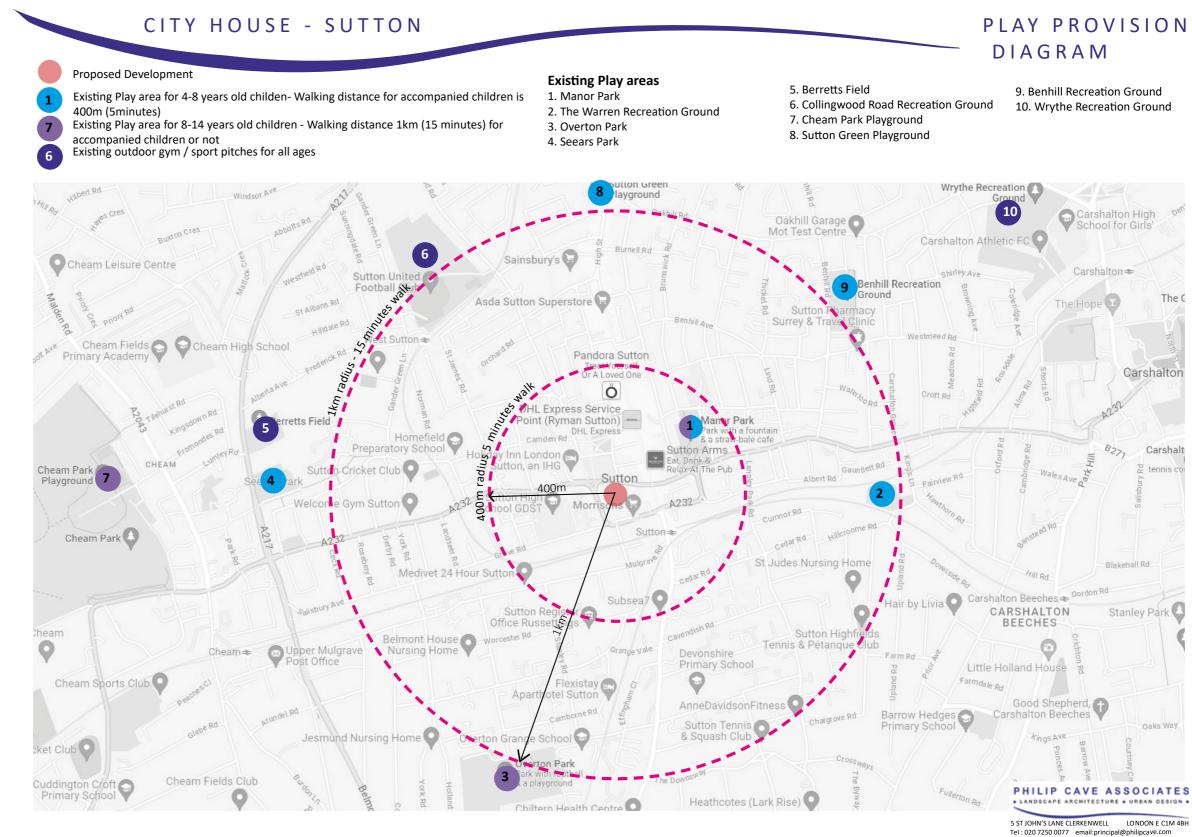


The space between the church and the proposal is enhanced and allows the church to maintain a good presence in the street & increase visibility

It is proposed to retain of most of the trees, and relocate of the pedestrian paths further into the site, thereby creating create a landscape buffer screening the traffic from view.

Adult amenity and play space is located on the roof and at ground level will deliver a balance of uses that benefits all residents. Seating on the roof will also enable neighbours to meet, encouraging resident cohesion and a sense of community."

LANDSCAPE BY PHILLIP CAVE



Page 65

GROUND FLOOR LANDSCAPE BY PHILLIP CAVE



PRECEDENT IMAGES



and evergreen plants

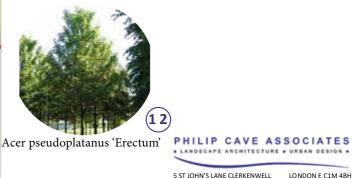
Ornamental grasses, herbcaceous Trimmed hedge to boundary



Betula utilis var. jacquemontii



Pyrus 'Chanticleer'



5 ST JOHN'S LANE CLERKENWELL LONDON E C1M 4BH Tel : 020 7250 0077 email:principal@philipcave.com

PODIUM LANDSCAPE BY PHILLIP CAVE

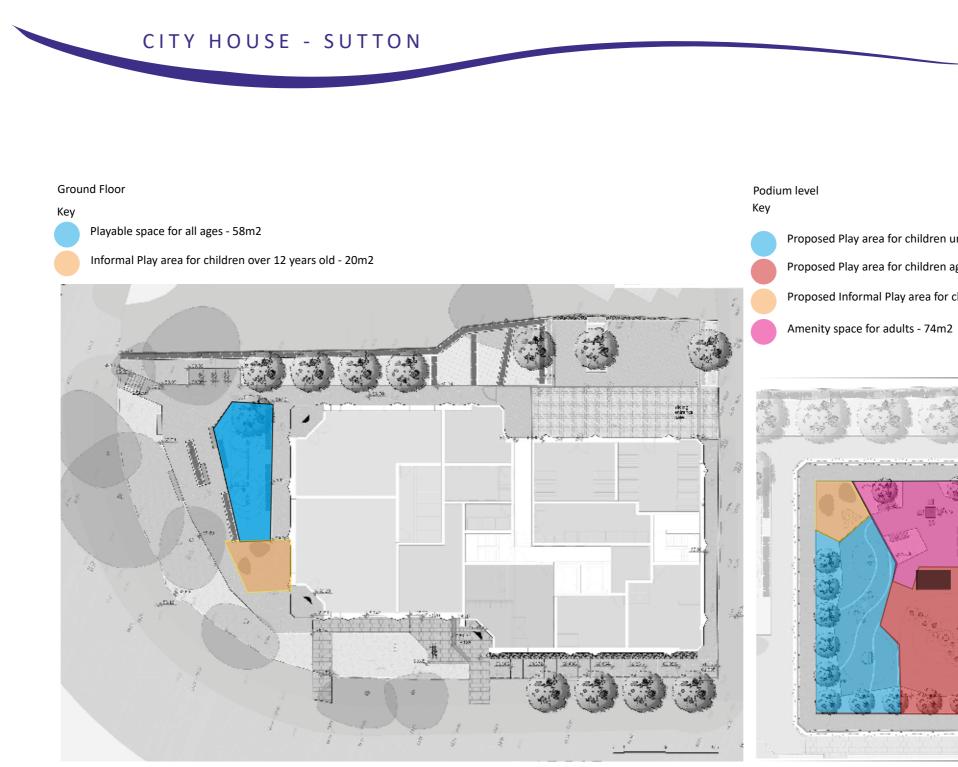




PHILIP CAVE ASSOCIATES . LANDSCAPE ARCHITECTURE . URBAN DESIGN .

5 ST JOHN'S LANE CLERKENWELL LONDON E C1M 4BH Tel : 020 7250 0077 email:principal@philipcave.com

LANDSCAPE BY PHILLIP CAVE



Play requirements: Under 5 years - 79 sqm

5-11 years - 51 sqm 12+ years - 15 sqm

PROPOSED PLAY AREAS AND AMENITY SPACE

Proposed Play area for children under 5 years old - 77m2 Proposed Play area for children ages 5-11 years old - 76.25m2 Proposed Informal Play area for children over 12 years old - 13m2



PHILIP CAVE ASSOCIATES . LANDSCAPE ARCHITECTURE . URBAN DESIGN .

5 ST JOHN'S LANE CLERKENWELL LONDON E C1M 4BH Tel : 020 7250 0077 email:principal@philipcave.com

PODIUM SECTION - LANDSCAPE BY PHILLIP CAVE



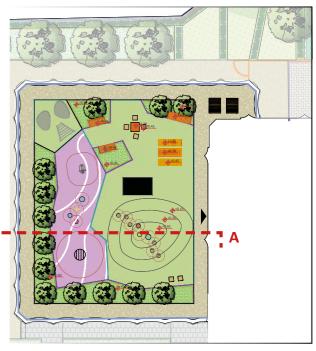
Section A-A

Resin Bound Gravel Poured Rubber Paving

Artificial Grass Mound

Section @ NTS

PODIUM SECTION



A

Resin Bound Gravel PHILIP CAVE ASSOCIATES

5 ST JOHN'S LANE CLERKENWELL LONDON E C1M 4BH Tel : 020 7250 0077 email:principal@philipcave.com

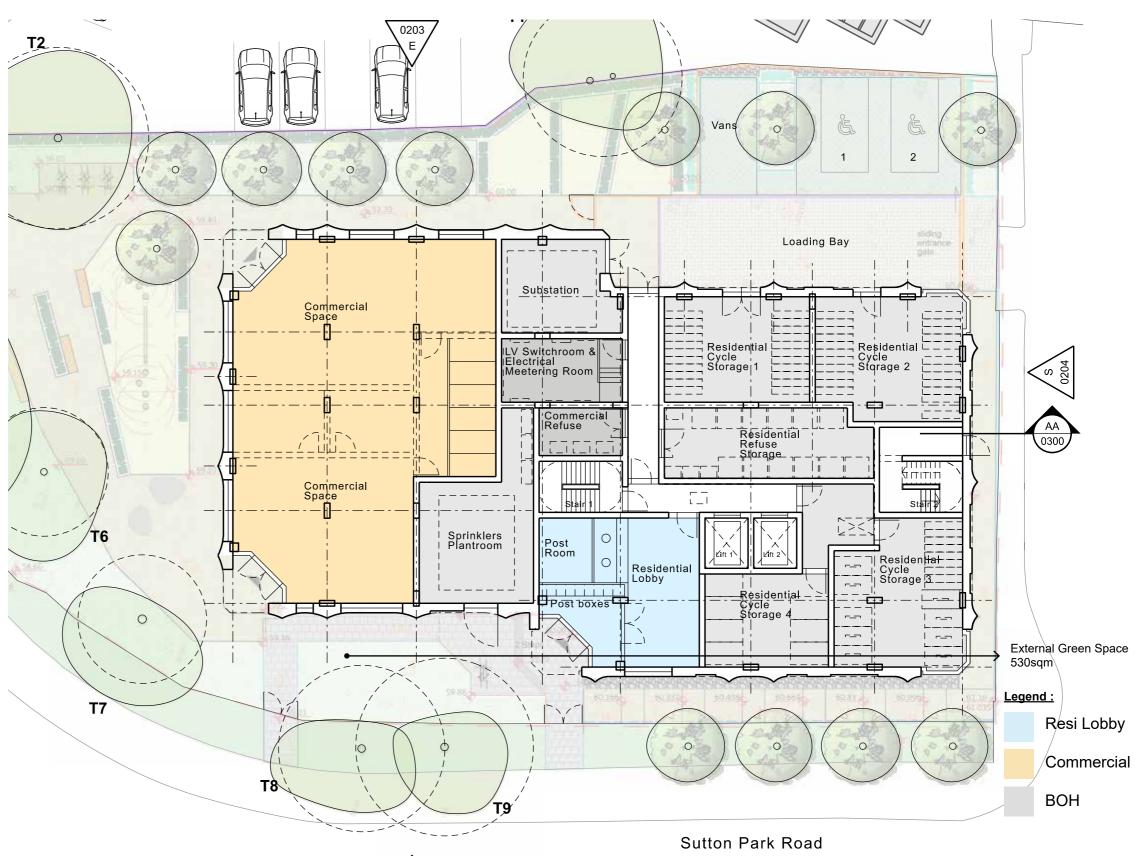
10. BUILDING ORGANISATION

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GROUND FLOOR PLAN

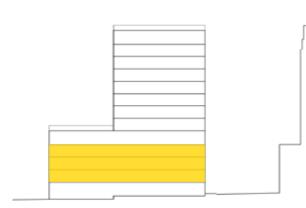


Key Section



BUILDING ORGANISATION

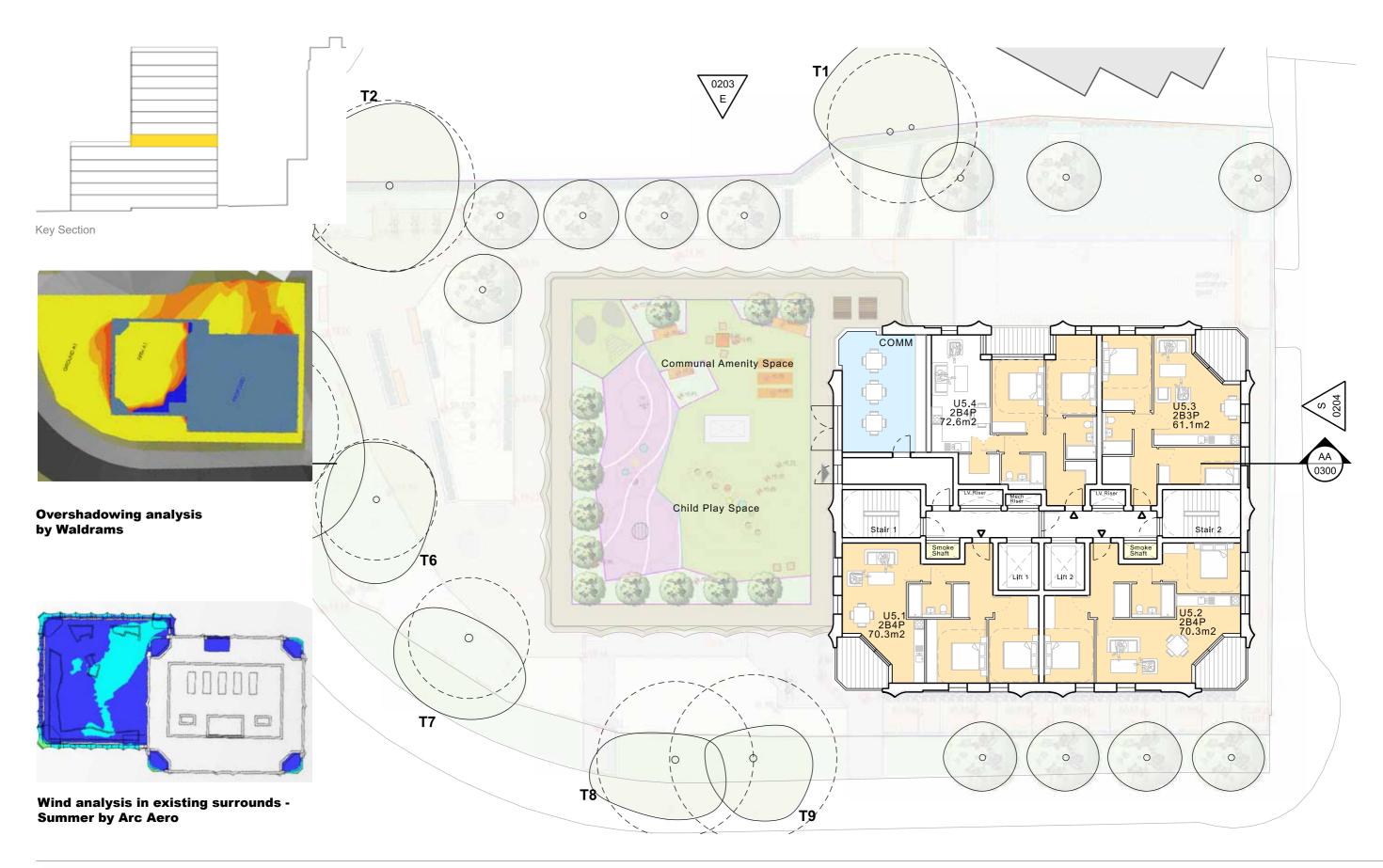
TYPICAL LOWER FLOOR PLAN (L1-L3)



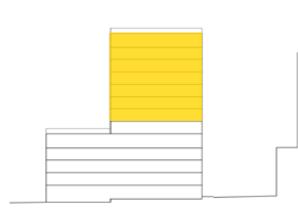
Key Section



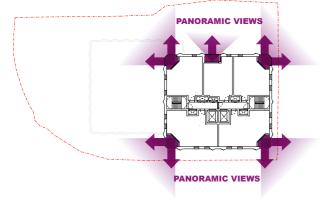
FIFTH FLOOR PLAN

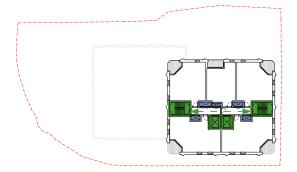


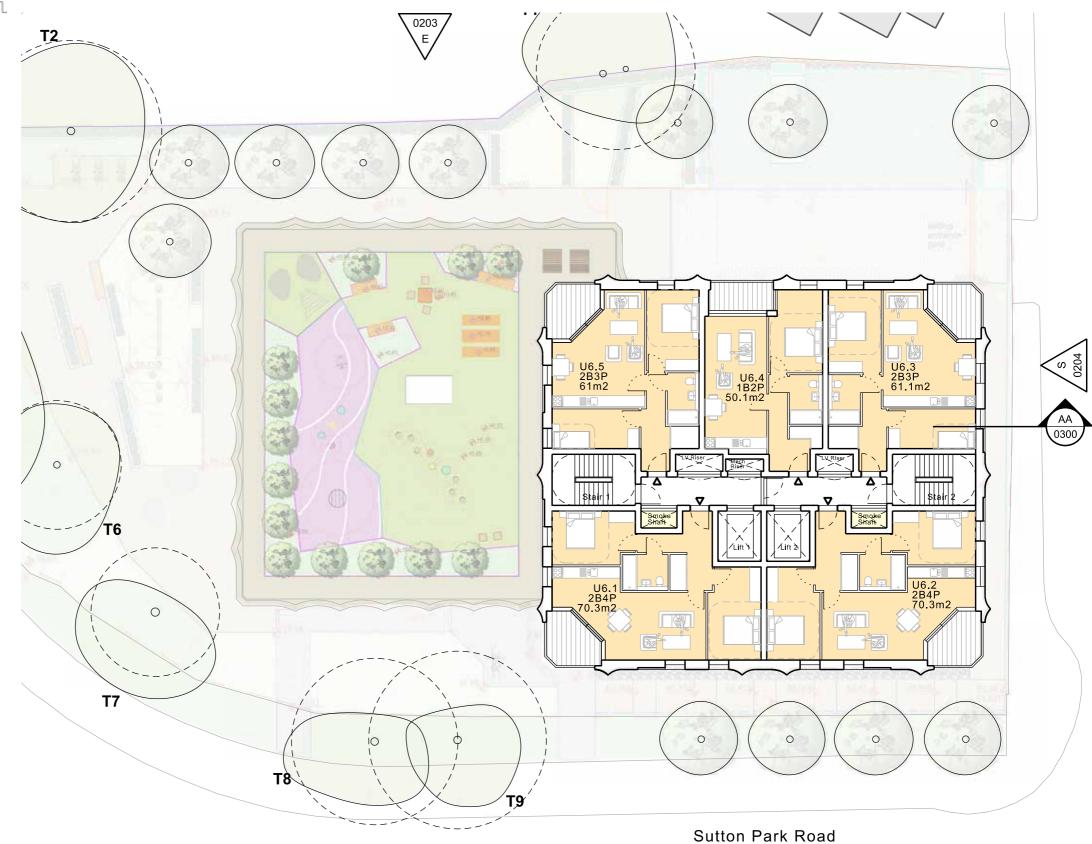
TYPICAL HIGH FLOOR PLAN (L6-L12)



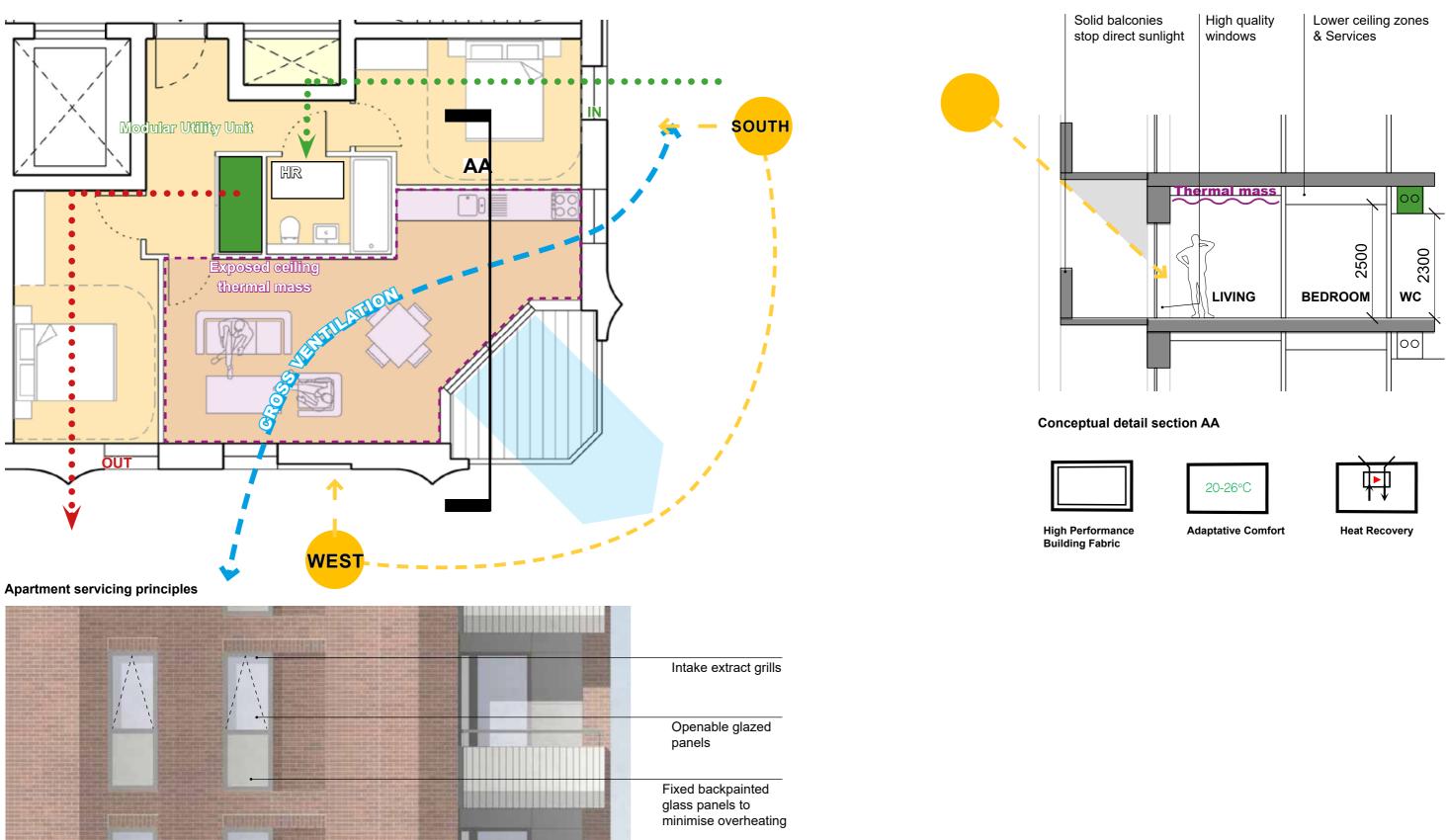
Key Section







OVERHEATING STRATEGY

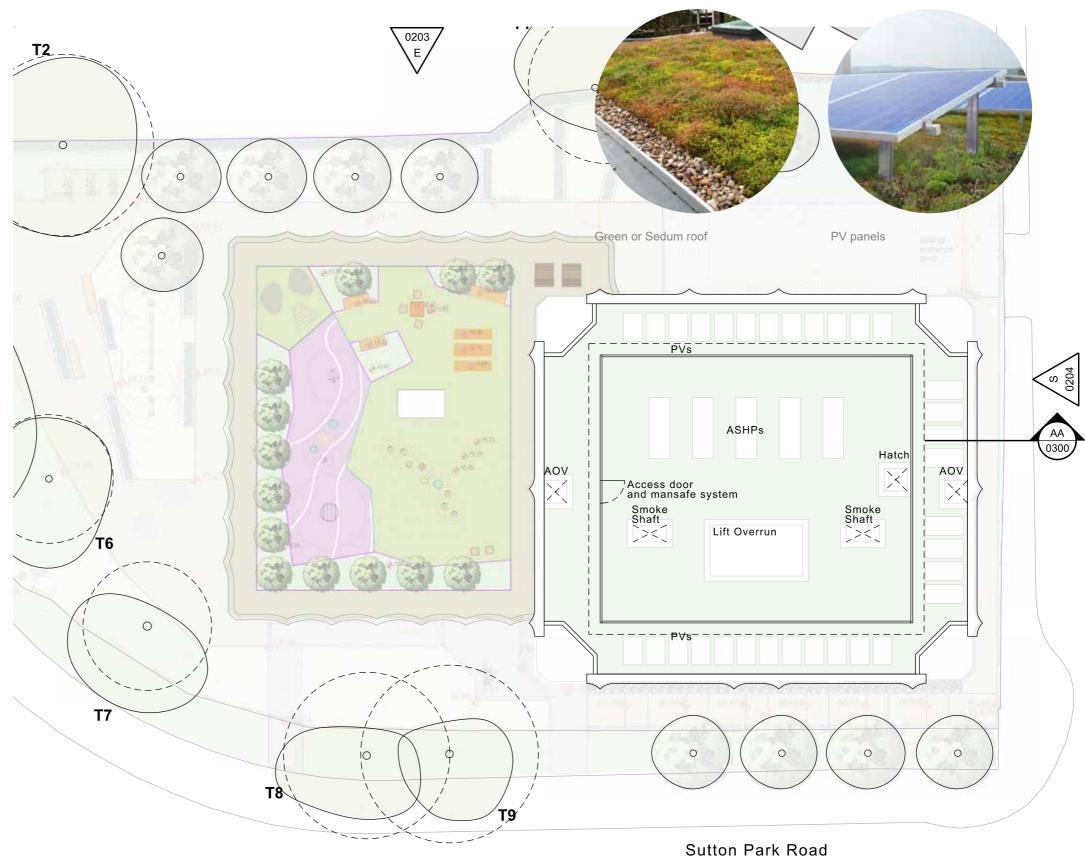


Detail bay balcony concept

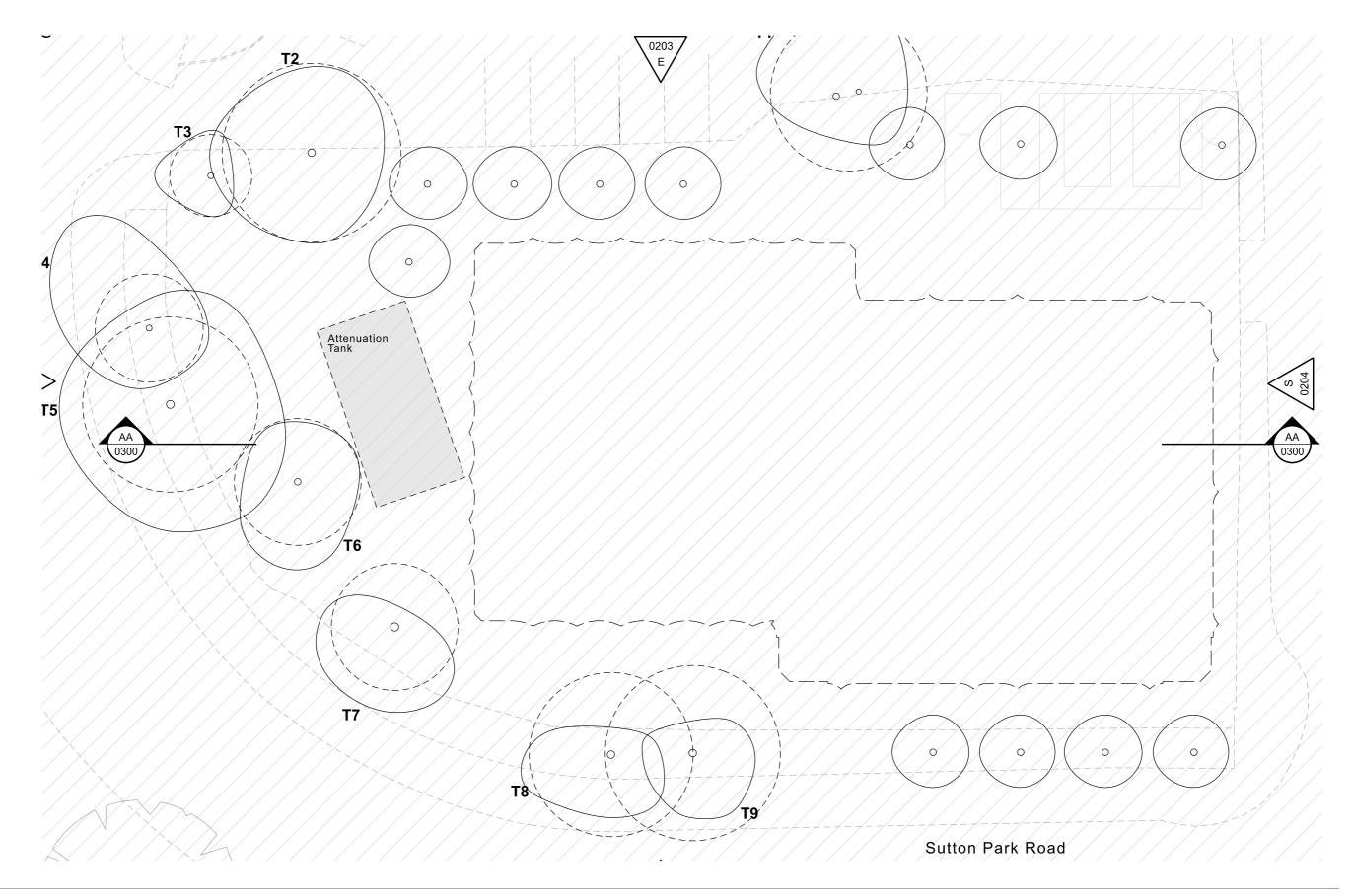
ROOF PLAN



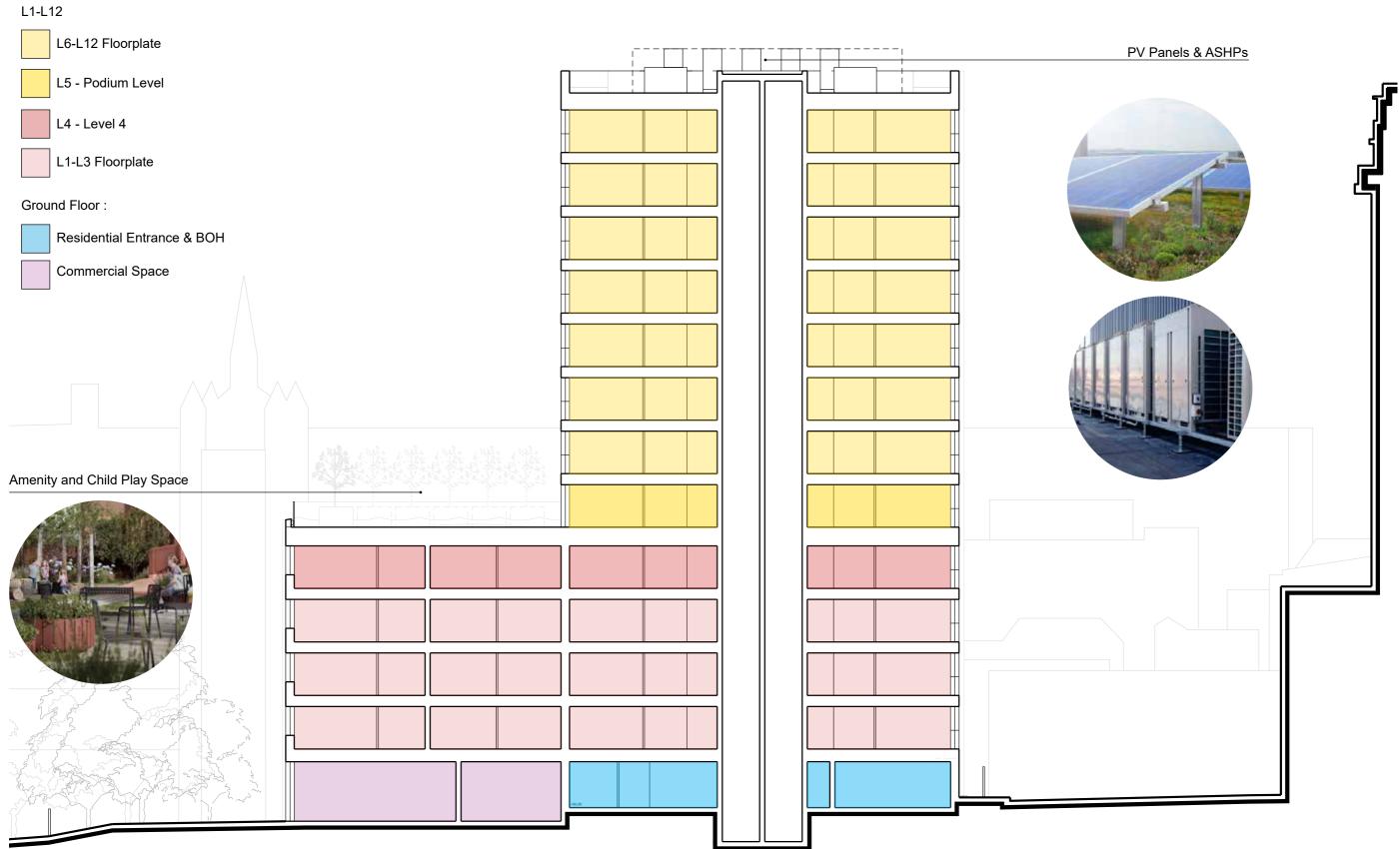
Key Section



LOWER GROUND FLOOR PLAN



SECTION



UNIT MIX - 70 UNITS SCHEME

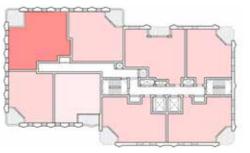
City House, Sutton - Unit Mix - 70 units						
		1B2P	2B3P	2B4P	3B5P	Height (m)
Taller Building	Level 12	1	2	2	0	3.6
	Level 11	1	2	2	0	3.15
	Level 10	1	2	2	0	3.15
	Level 9	1	2	2	0	3.15
	Level 8	1	2	2	0	3.15
	Level 7	1	2	2	0	3.15
	Level 6	1	2	2	0	3.15
	Level 5	0	1	3	0	3.15
Pavillion	Level 4	1	2	3	1	3.6
	Level 3	1	2	4	1	3.15
	Level 2	1	2	4	1	3.15
	Level 1	1	2	4	1	3.15
	Ground Floor					3.45

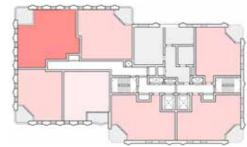
Unit Numbers	11	23	32	4	70 units
Unit Mix	16%	79	9%	6%	100%
Part M4(3) Units					7
Blue Badge Parking				2.1	

1 Cycle Parking - Total					138.5
1.1 Long Stay	16.5	46	64	8	134.5
1.1.1 5% Adaptative				7	
1.1.2 15% Sheffield Stands			20		
1.1.3 80% Two Tier Racks			108		
1.2 Short Stay - Sheffield Stands			4		

Pre-App 3 Unit mix

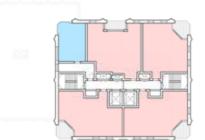
	1 Beds	2 Beds	3 Beds
70	16%	79%	6%
Units	11 Units	55 Units	4 Units

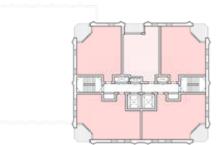




Floorplate Type 1 (L1-L3)

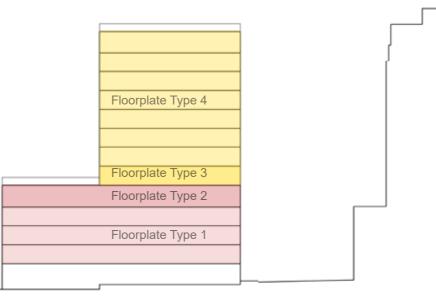
Floorplate Type 2 (L4)





Floorplate Type 3 (L5)

Floorplate Type 4 (L6-L12)



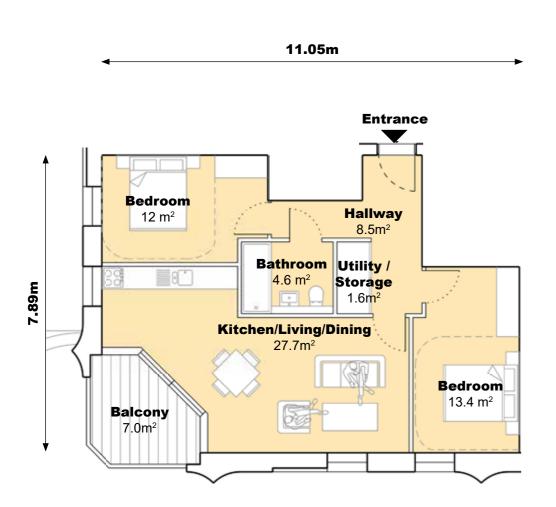
Schematic Section



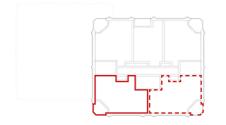
Typical 2B4P Apartment

Unit GIA: 70.2m²

RESIDENTIAL UNITS: TYPICAL DETAIL LAYOUTS

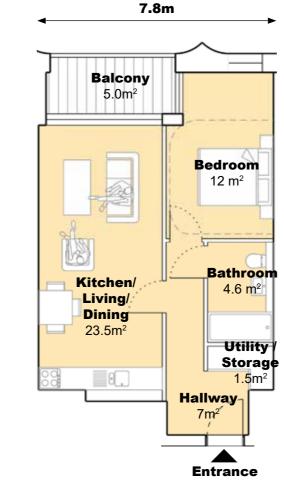


Apartment Plan



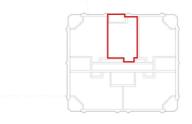
Location Plan (Levels 1-12)





Apartment Plan

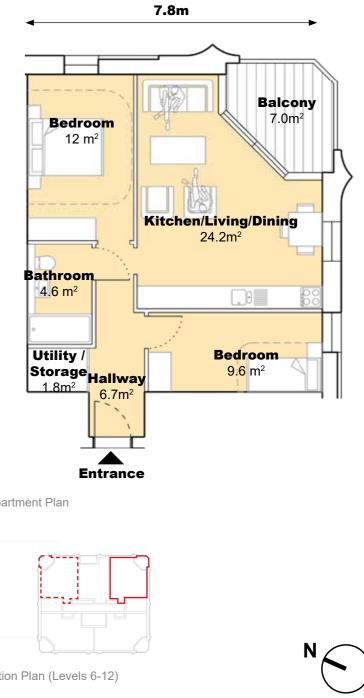
9.6m



Location Plan (Levels 6-12)

9.6m

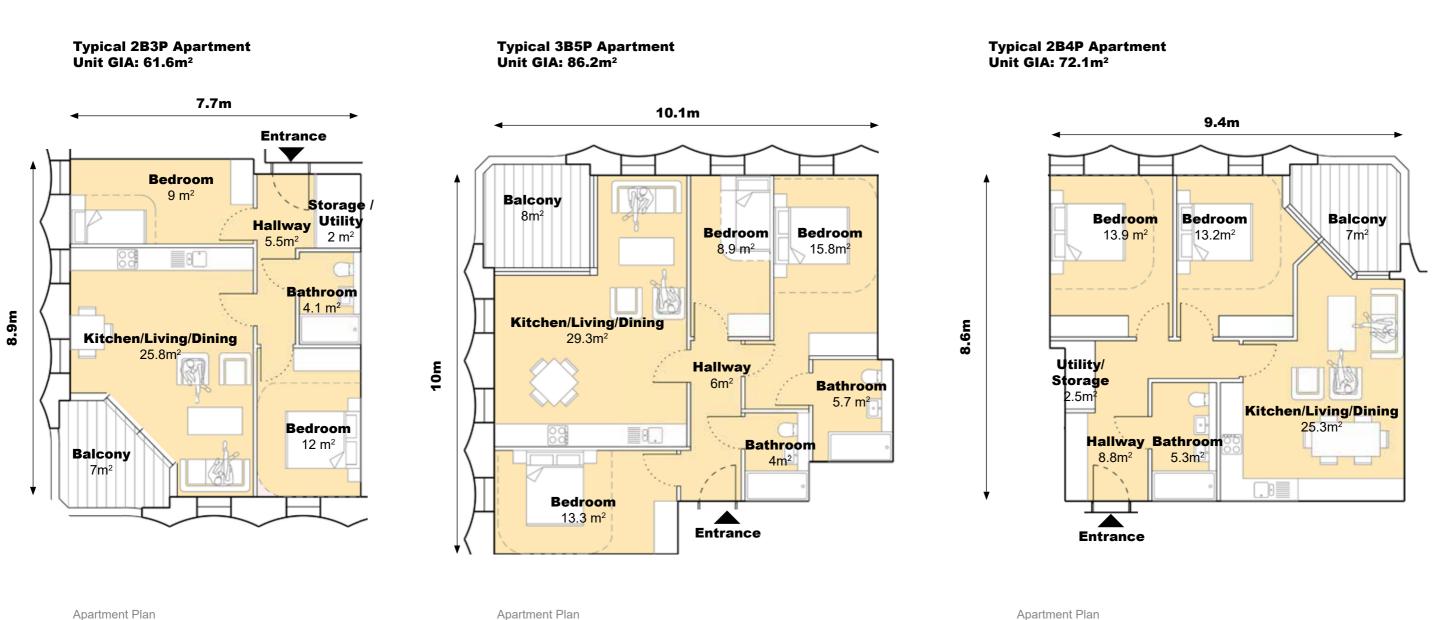




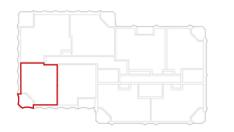


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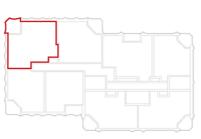
RESIDENTIAL UNITS: TYPICAL DETAIL LAYOUTS



Apartment Plan

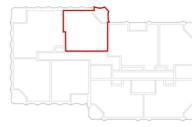


Location Plan (Levels 1-4)





Apartment Plan

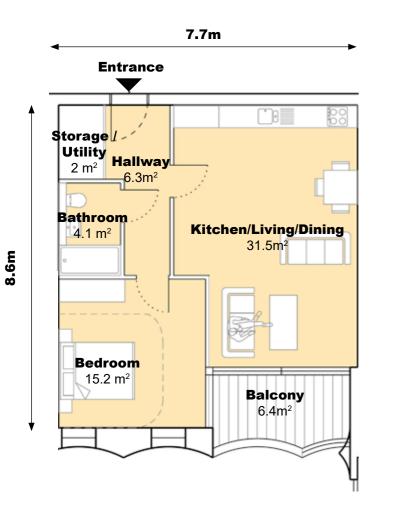


Location Plan (Levels 1-4)



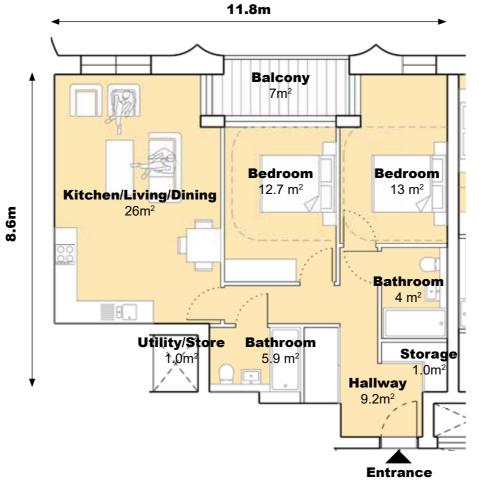


RESIDENTIAL UNITS: PART M4(3) ADAPTABLE UNITS

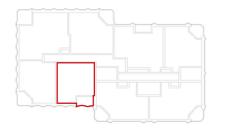


Typical 1B2P PartM4(3) Apartment Unit GIA: 61m²

Typical 2B4P PartM4(3) Apartment Unit GIA: 79.9m²

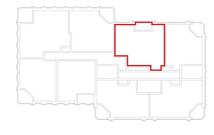


Apartment Plan



Location Plan (Levels 1-4)

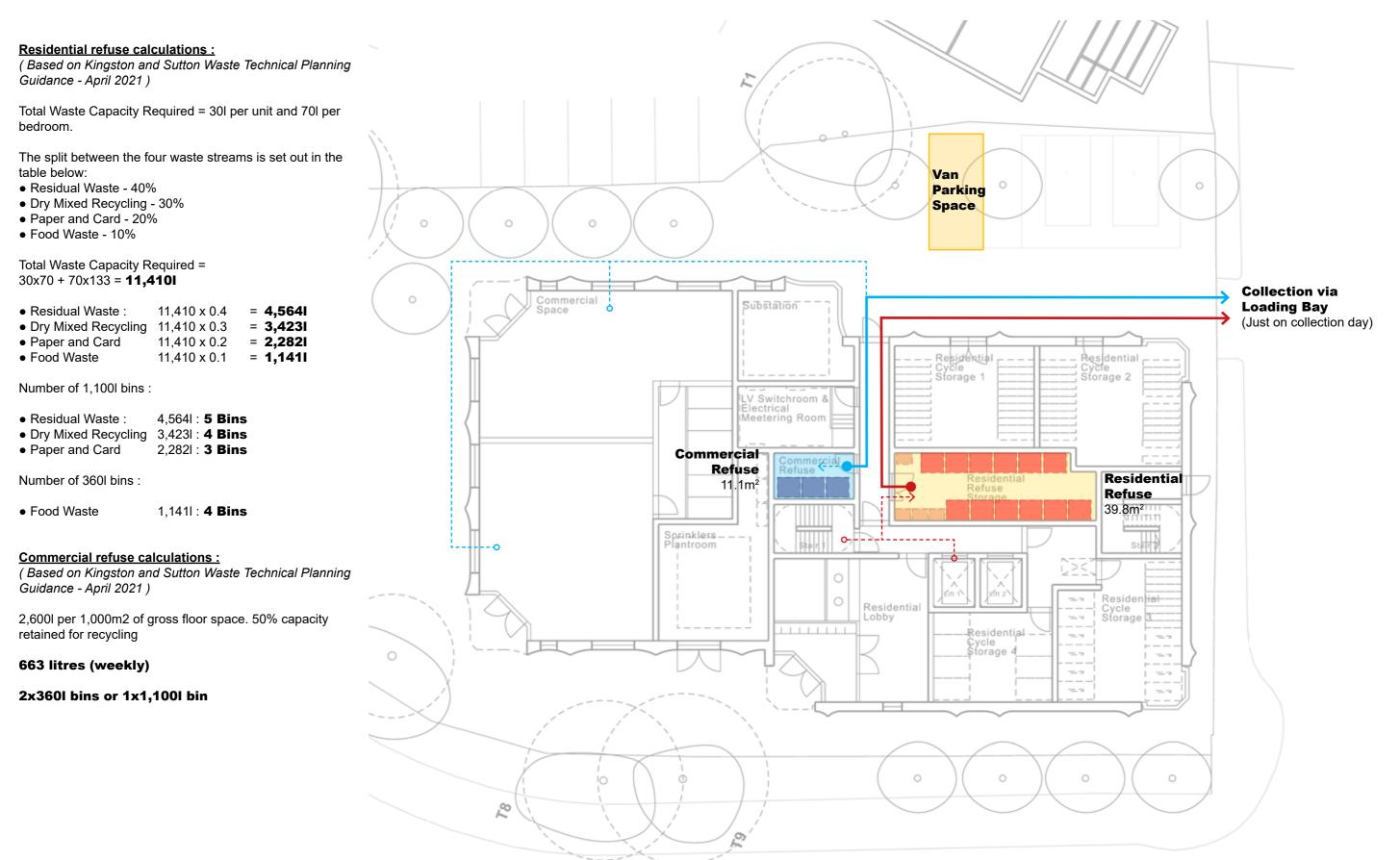




Location Plan (Levels 1-3)

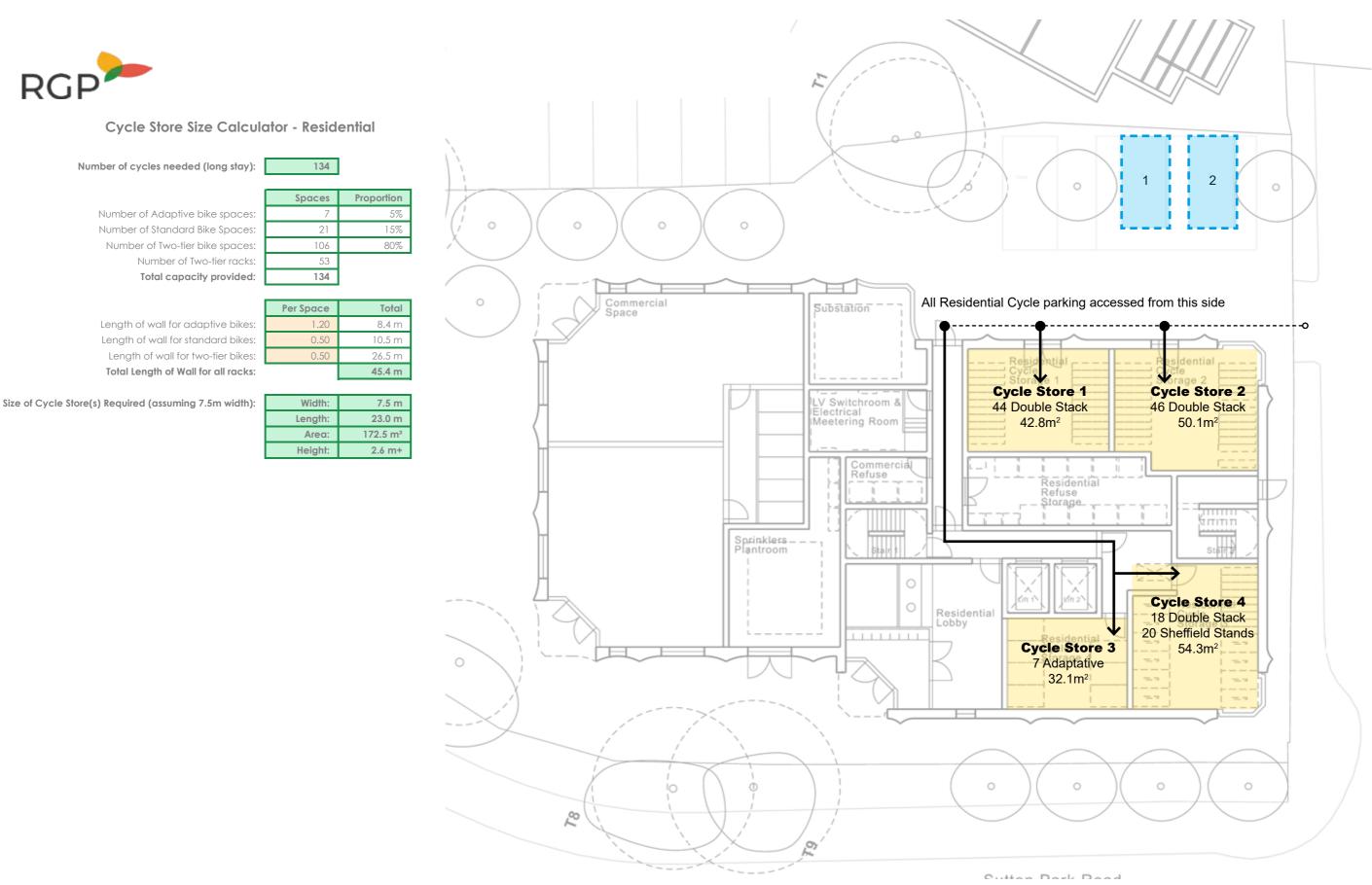


REFUSE AND DELIVERY STRATEGY



Sutton Dark Dood

CYCLE & CAR PARKING



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FIRE STRATEGY - CUNDALL

The key aspects of this fire strategy include:

- The fire strategy is designed in accordance with Approved Document B
- Elements of structure are to be provided with 120 minutes of fire resistance.
- A residential sprinkler system will be provided in accordance with BS 9251: 2021
 - The system category will be Category 4

- The sprinkler system will be extended to provide coverage to the ancillary spaces and ground floor commercial unit. These spaces will be designed with compartment walls to limit the maximum area of a single compartment to not more than 100m2.

• Residential apartments will be designed based on a protected internal hallway to which all habitable rooms are accessed from and from which the travel distance will be limited to 9 m.

 Residential apartments will be provided with a grade D, Category LD3 fire detection system to BS 5839-6.

An evacuation alert system in accordance with BS 8629.

- Common areas of the building will be provided with a category L5 fire detection system to BS 5839-1.

• The commercial unit will be provided with category L3 fire detection to BS 5839-1.

• Two escape staircases will be provided to the building:

- Stair 1 will be an escape stair. This staircase shall be accessed from a protected lobby which is provided with a natural smoke shaft for ventilation and into which no fire risk rooms are to directly open. A small section of corridor without smoke ventilation will provide access to this corridor for circa 4 apartments per floor. The travel distance within the unvented corridor will be limited to 7.5m.

- Stair 2 will be an escape and fire-fighting staircase. This staircase will be accessed from a protected residential access corridor which will be provided with smoke ventilation.

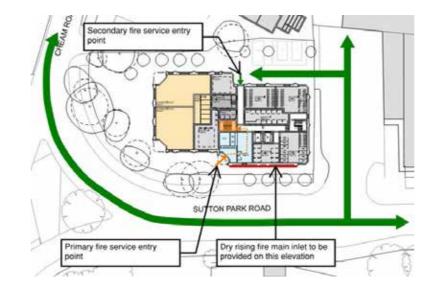
• Two lifts are to be provided:

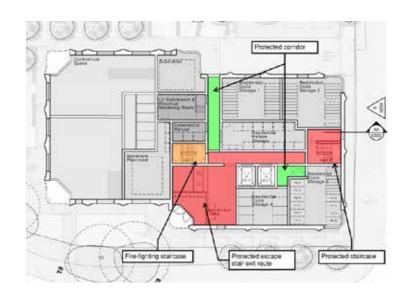
- Lift 1 will be an evacuation capable lift that is provided with suitable secondary power supply to provide a means of escape for mobility impaired occupants.

- Lift 2 will be designed as a fire-fighting lift to BS EN 81-72. The lift will also be designed such that it may be operated for evacuation by occupants prior to the arrival of the fire service on-site.

• Stair 2 will be designed as a fire-fighting stair with the following features:

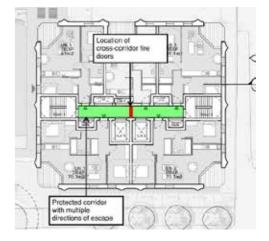
- 120 minutes fire resistance to the staircase and lift shaft
- Maximum distance of 7.5m between the lift landing doors and stair access door.
- Dry rising fire main to BS 9990 with landing valves within the stair core





Site Plan (Extracted from Cundall's Fire Strategy)

Ground Floor Plan (Extracted from Cundall's Fire Strategy)



Typical High Level Plan (Extracted from Cundall's Fire Strategy)

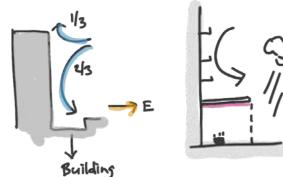
SITE AND FACADE RESPONSE

Environmental design strategy

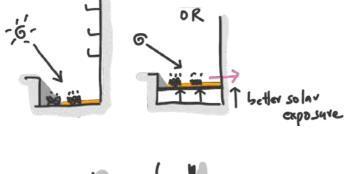
The environmental design strategy for the City house project follows a Macro to Micro approach and starts by understanding the variations in solar exposure as a result of differences in orientations and the impact of the immediate urban context.

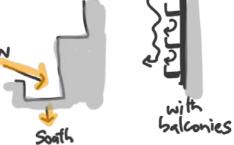
Initial climate and context based solar exposure studies suggest that the lower floors are impacted by the urban fabric while the upper floors are mainly exposed and therefore orientation would play a major role in defining the façade strategy.

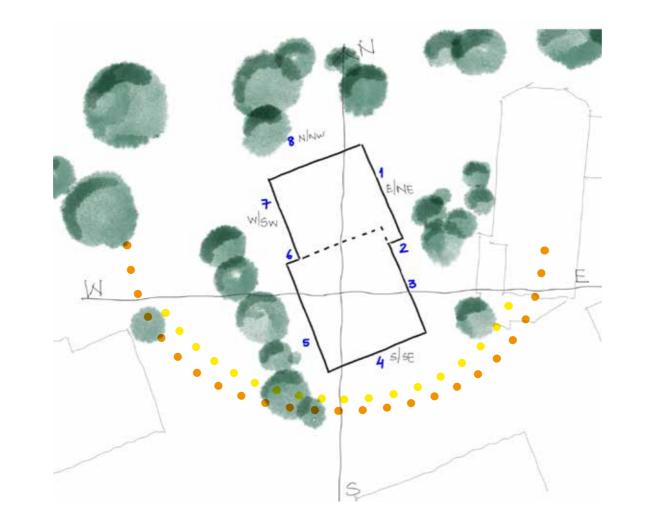
The adjacent sketch and the table identify the different façades of the proposal and the environmental brief / constraint for each of them.





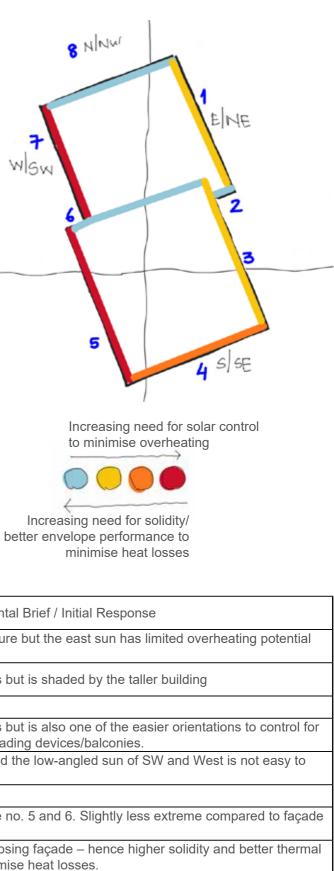






North

Facade No.	Orientation	Environmental E
1	East / Northeast	Largely exposed to the east solar exposure b hence good for passive solar gains.
2	South / Southeast	The orientation receives high solar gains but
3	East / Northeast	Same as facade 1
4	South / Southeast	The orientation receives high solar gains but seasonal solar gains using horizontal shading
5	West / Southwest	Presents the highest overheating risk and the control.
6	West / Southwest	Same as facade 8.
7	West / Southwest	This façade is partly protected by façade no. 5.
8	North / Northwest	Hardly receives sun and the most heat-losing performance of the envelope could minimise



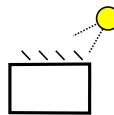
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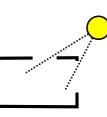
INITIAL ENVIRONMENTAL STRATEGY



INITIAL SUSTAINABILITY STRATEGY

Summary of Energy & Sustainability principles :





Solar PVs

SS

Air Source Heat Pumps



Heat Recovery

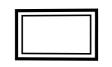


Adaptative Comfort

Natural Daylight



Passive Solar Gain



High Performance Building Fabric



Air Tightness

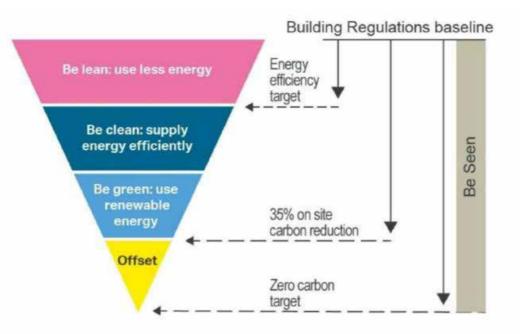
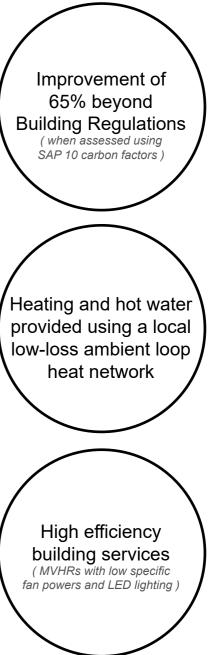
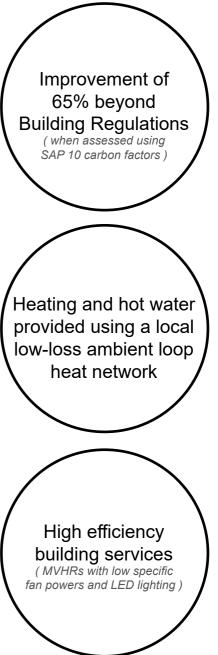
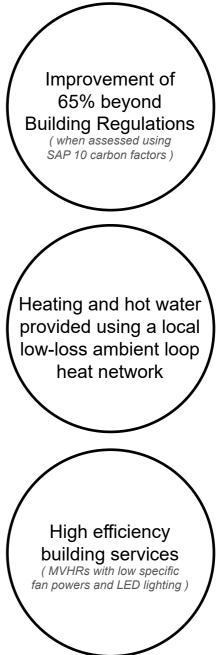


Figure 1 - Energy Hierarchy Excerpt from London Plan 2021







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