08. LANDSCAPE

LANDSCAPE

Landscaping and Streetscape - Illustrative

While the TfL site is not available to be included within our application, we are looking to enhance the public realm around the Solum and TfL land. Although we do not own or control the TfL land and therefore cannot be obligated to deliver them, we have considered longer term landscape proposals which would benefit the area:

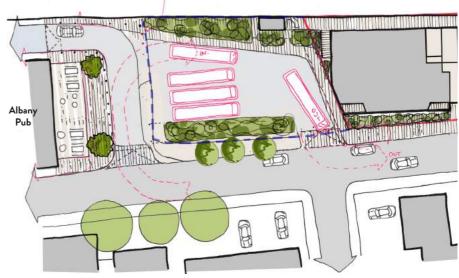
- Re-surfacing and incorporating a landscape design that encourages secondary uses of the site
- Creating connecting pavements between our site and the Albany pub
- Introducing trees, hardier species and planting along Albany side of TfL Land
- Creating planting beds within the Solum site •
- Preventing the TfL site being used as cut through and improving pedestrian safety



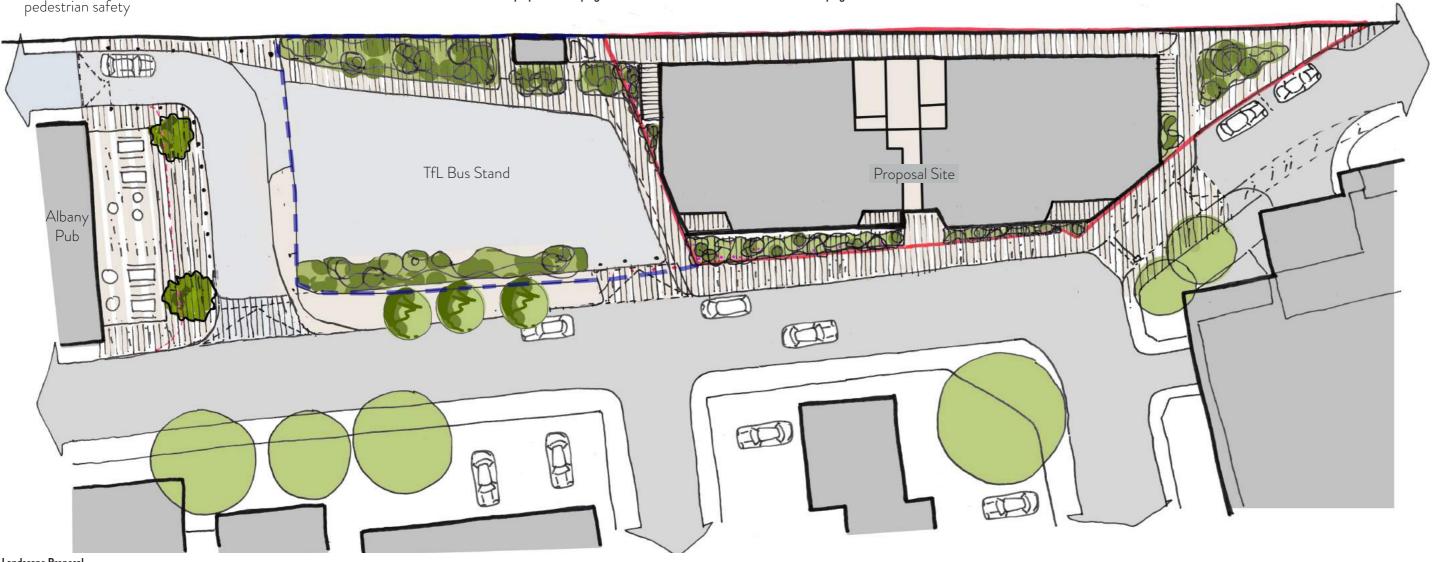
Reference - Chiswick Park Multi-purpose landscaping



Reference - Exhibition Road Patterned hard landscaping

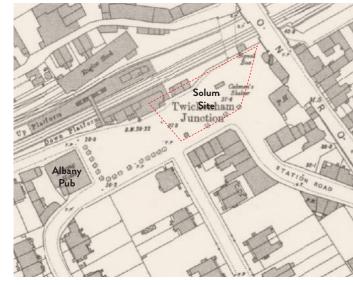


TfL operational requirement for 5 buses on TfL Land



Landscape Proposal

Townscape



Tree Lined Streets around and on 1896 Site

- Existing vegetation contributing to a tree lined street scape
- Proposed vegetation zone, that would provide an reinforce and improve the existing public realm.

Station Yard was originally much more green, with trees all along the boundary of the TFL land. There are still some large trees on the other side of the street from our site.

Additional vegetation at ground level is proposed, addressing the street and primary approach. This will be an improvement upon the existing car park outlook and will complement the existing trees in the streetscape.

The proposal sets back from Station Yard towards the western end of the site, creating a more generous streetscape with the opportunity for more planting, and framing views of The Albany.



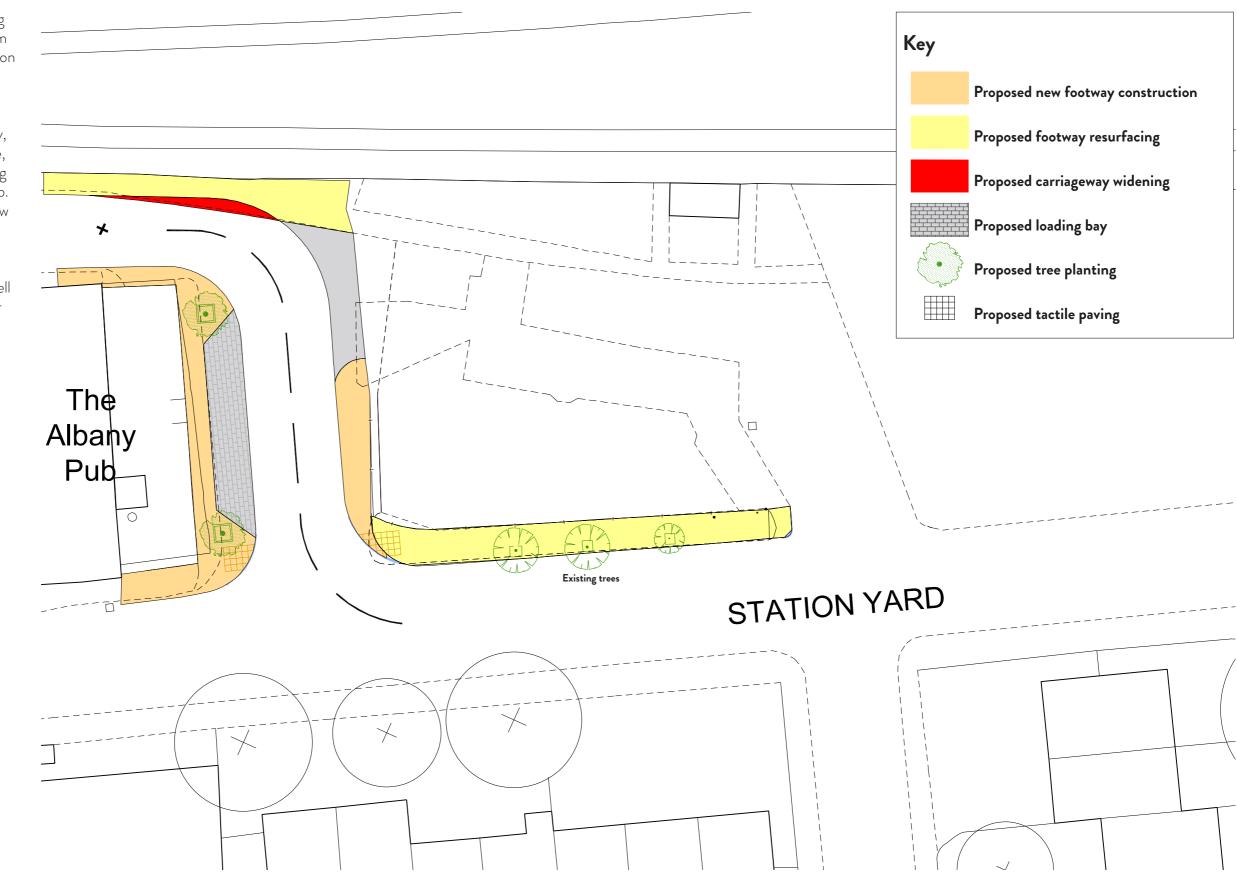
LANDSCAPE

Richmond Council Public Realm Improvements

Richmond Council is undertaking improvements to the public realm around the Albany Pub and Station Yard area.

This will involve improving the road that runs around the Albany, smoothing the carriageway route, adding a loading bay and widening the footway for clients of the pub. The proposal is also to plant 2 new trees outside the pub and add tactile paving.

These improvements will tie in well with our scheme, enabling better access across the whole area.



Landscape Masterplan by BDP

- Proposed carriageway widening as part of LB Richmond upon Thames proposals
- 2. Proposed 4m wide footway build out to provide continuous new footway and loading bay as part of LB Richmond upon Thames proposals
- 3. New trees as part of LB Richmond upon Thames proposals
- 4. New trees proposed in existing position
- 5. Improved footway resurfacing as part of LB Richmond upon Thames proposals
- 6. Secure access to back of house area
- 7. Perimeter buffer planting
- 8. Granite 'doormat' to main entrance
- 9. Shrub planting
- 10. Disabled car park spaces
- 11. Raised table threshold and retained vehicle barrier



LANDSCAPE

View from Queen's Road





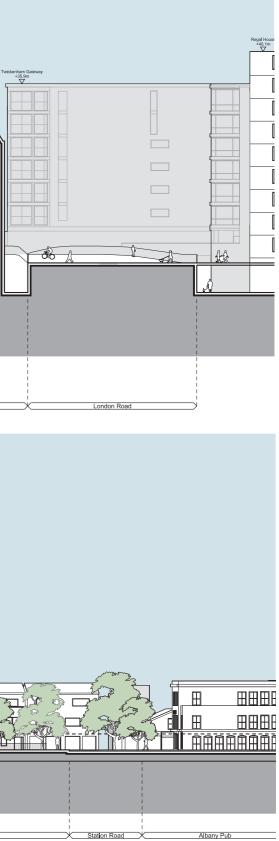
ELEVATIONS

South and North Elevations



South Elevation *Note that signage, name of development and other branding decisions are to be confirmed later

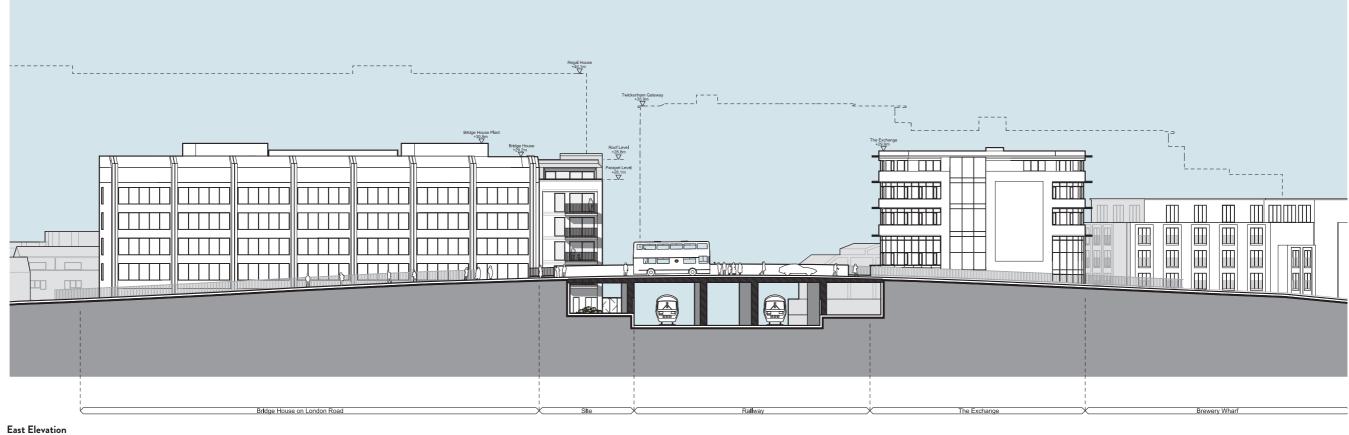




West and East Elevations



West Elevation

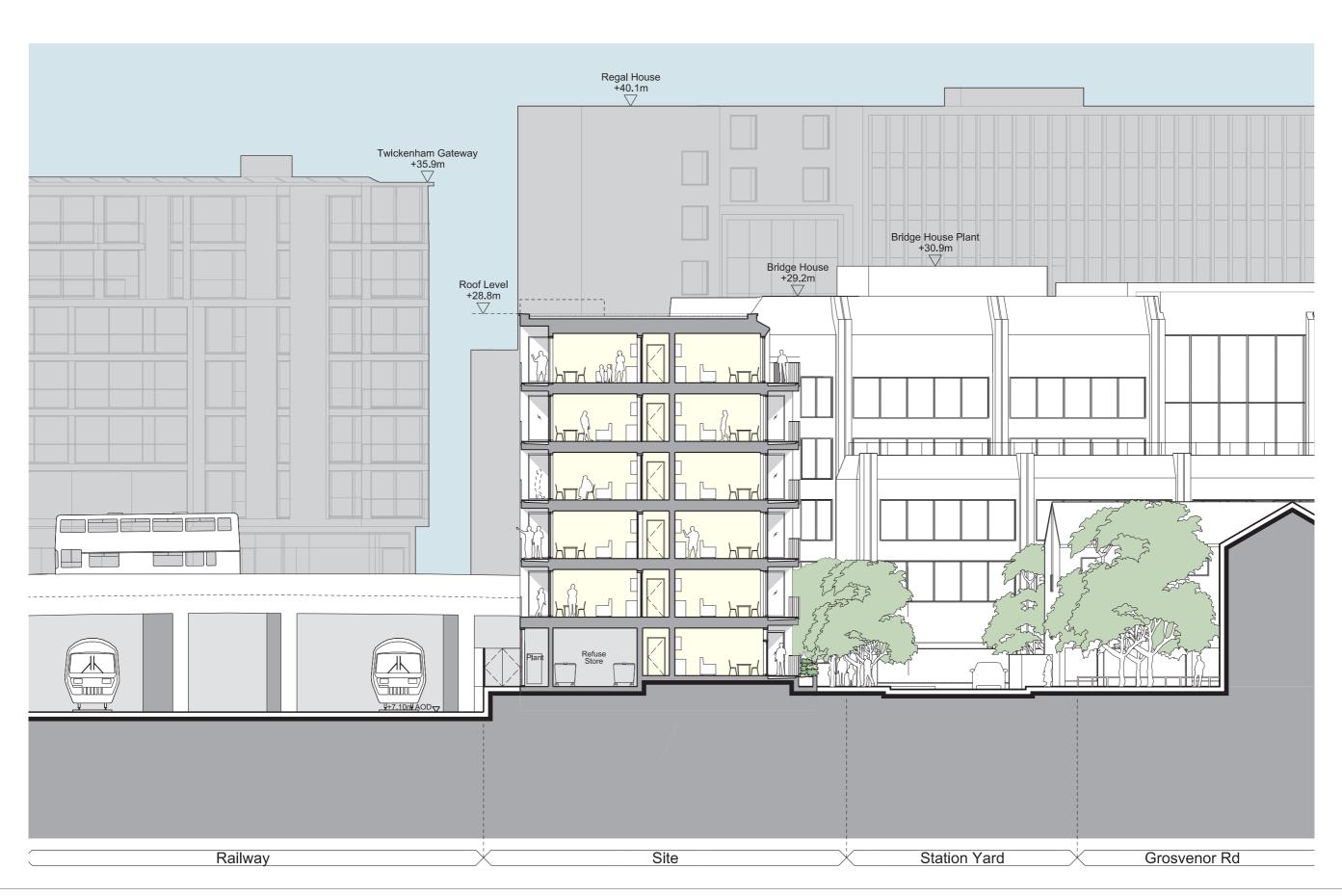


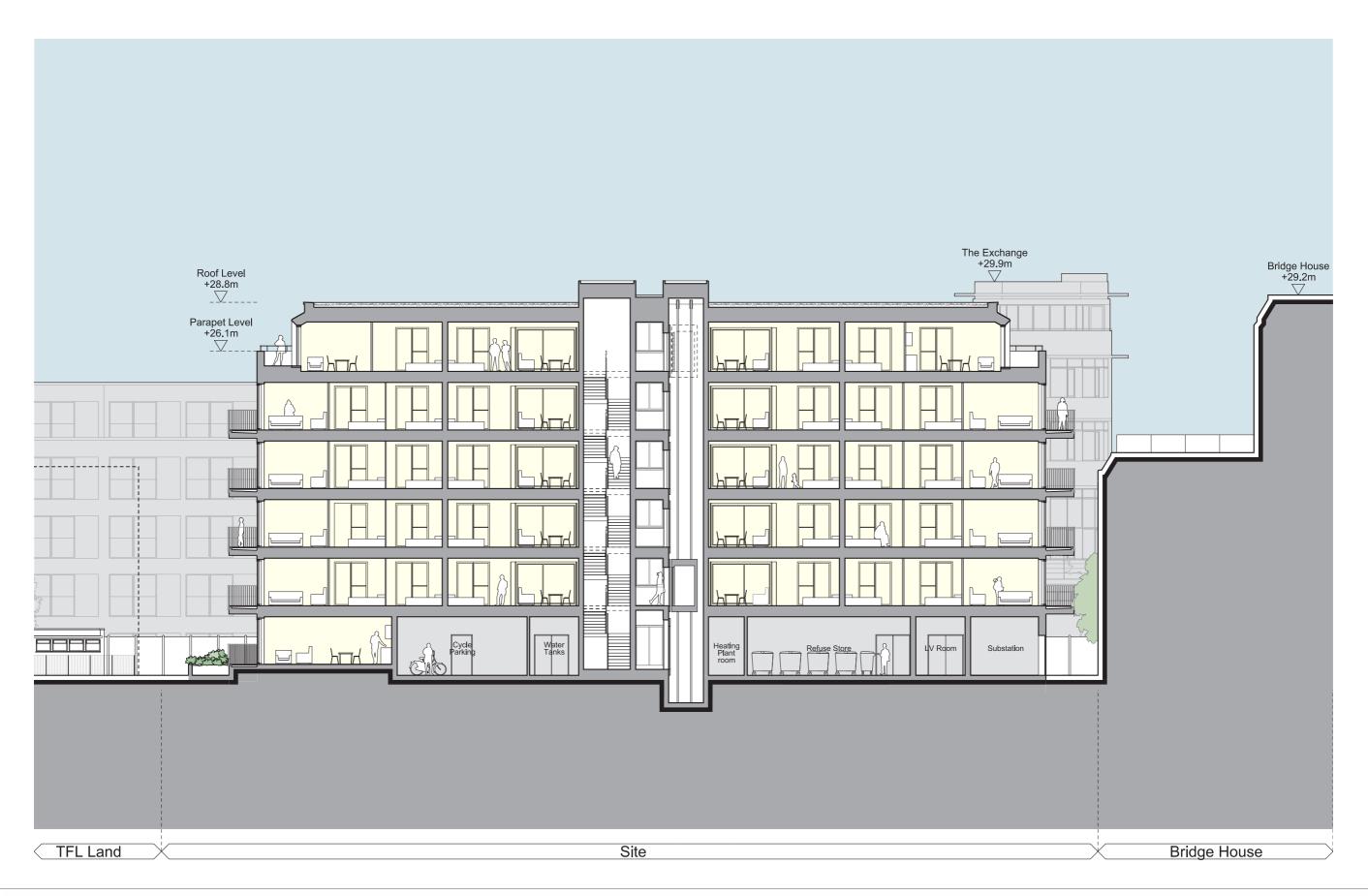


10. SECTIONS

SECTIONS

Short Section





11. CONTEXT VIEWS

CONTEXT VIEWS

View 1 from London Road

The following pages show a comparison of photos of the existing site alongside illustrative views of the proposal in its context. These images show that the proposal sits comfortably in the local area and is proportional in scale to the surrounding buildings.

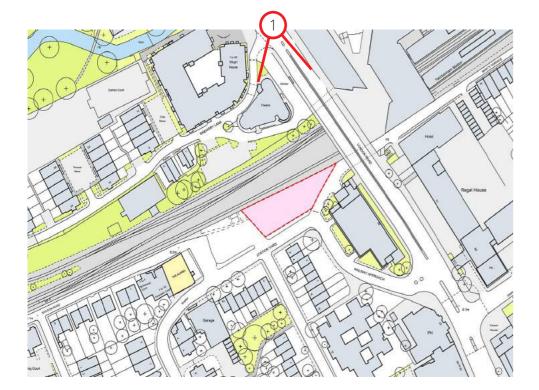
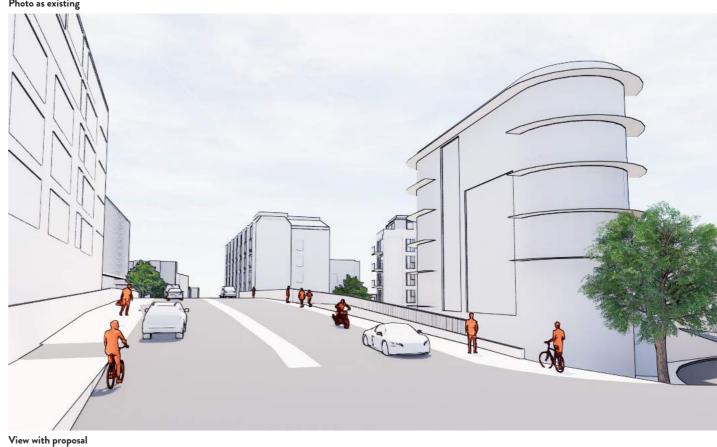




Photo as existing



Station Yard, Twickenham

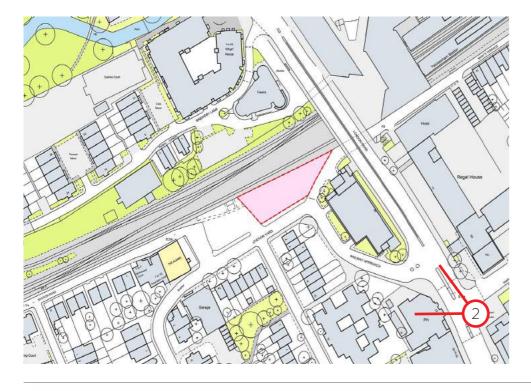




Photo as existing



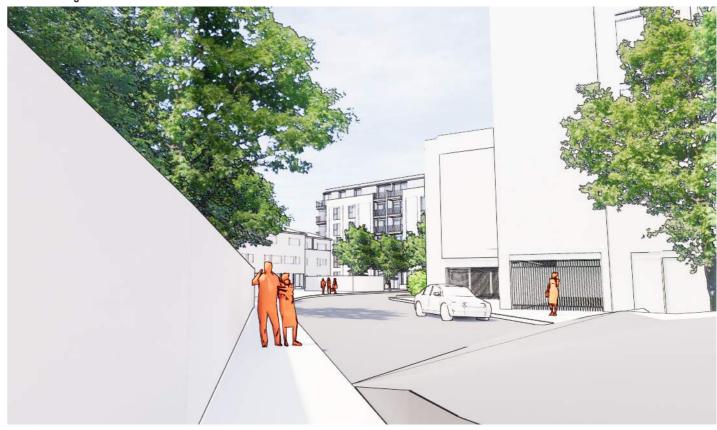
CONTEXT VIEWS

View 3 from Railway Approach





Photo as existing



View with proposal

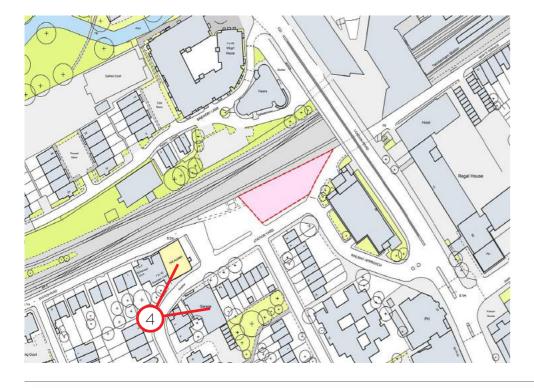




Photo as existing



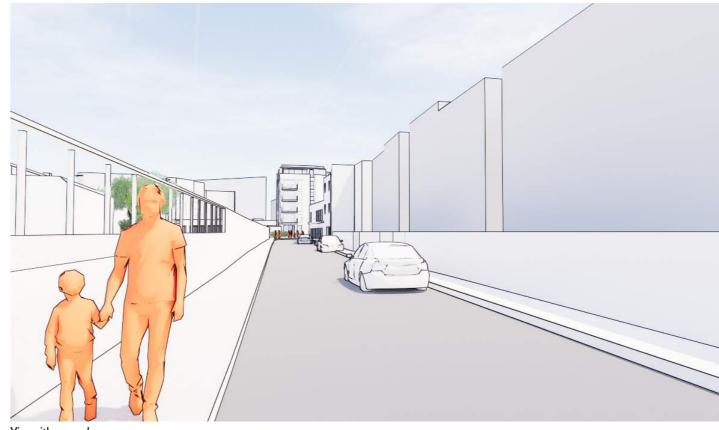
CONTEXT VIEWS

View 5 from Station Road





Photo as existing



View with proposal

View 6 from Brewery Lane

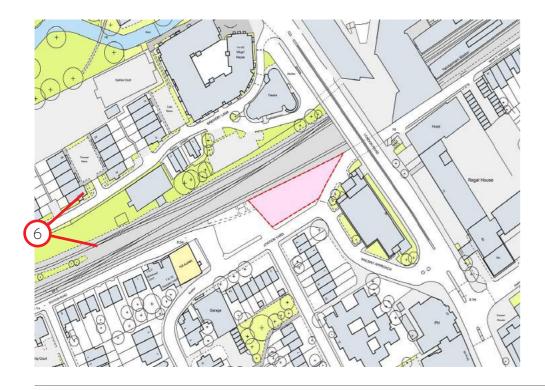




Photo as existing



CONTEXT VIEWS

View 7 from London Road





Photo as existing



Station Yard, Twickenham

12. VERIFIED VIEWS

VERIFIED VIEWS

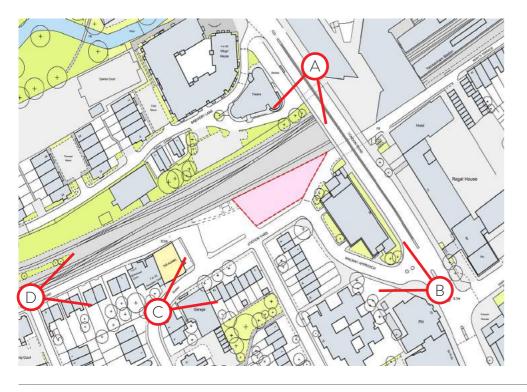
View A & B



View A from London Bridge



View B from London Road





View C from Queen's Road



View D from Station Road

13. MATERIALITY

MATERIALITY

Facade Materials

We want to ensure the character and design of our proposal complements and enhances the surrounding area and adjacent buildings. Therefore the proposed building will relate well to its surroundings, including Bridge House to the east, the Albany pub to the west and the existing housing on Station Yard and Railway Approach to the south. The Albany pub is a building of local significance and we are keen that our proposals complement it and deliver enhancements to its immediate environment and public realm. We are considering a palette of materials that references local buildings, including other residential developments and railway architecture.



Flat bar balustrades

South Elevation Detail Bay - *Note that signage, name of development and other branding decisions are to be confirmed later

Detail Bays - North and West



MATERIALITY

Elevational Materials



Proposed North Elevation

Proposed East Elevation





*Note that signage, name of development and other branding decisions are to be confirmed later

14. DESIGN REVIEW PANEL



Summary of DRP Suggested Enhancements

The council ran a Design Review Panel for the scheme on the 12 July 2019. The following pages present a summary of the feedback received and the responses which followed.

Overall, the panel was positive about the prospect of the development of an underused, centrally located brownfield site, and applauded the proposals as high-quality and a significant improvement to the current situation. In terms of massing, the panel agreed that the proposed height is a bridge between Bridge House, Regal House and Twickenham Station and the lower scale and density residential buildings to the south and west. They were, therefore, comfortable with the height and the way the building creates a transition. The panel encouraged the design team to draw on the railway heritage more.

Key comments:

1. All Flats To Have Level Access From Street Level

It was recommended that the design team explore ways to make all ground floor flats accessible/Part M compliant, and preclude the need for future occupants to retrofit individual stair lifts by introducing ramps that provide level access to ground floor accommodation.

2. Consider Utilising The Roof As A **Residents Garden**

Given the restricted amount of green space around the building, the Team was encouraged to explore the introduction of green roofs. The rooftop offers opportunity to provide green amenity/garden space for the residents as well as forming a pleasant outlook from surrounding buildings.

3. Provide A Quality Public Realm Proposal

The Panel wanted the new square to be a quality piece of public realm and supported the intention to involve an experienced Landscape Architect in its design. They also encouraged the Team to explore the opportunity to incorporate an art strategy into the proposals; this could also reference the transport heritage of the site.

4. Environmental Strategy

The panel encouraged the design team to consider the environmental strategy as part of the planning application. They were supportive of the consideration of air source heat pumps and roof solar panels as a way to make the building more sustainable.

STATION YARD DEVELOPMENT - SITE & CONTEXT











STATION YARD DEVELOPMENT - PUBLIC REALM, PARKING & APPROACH VIEW





Station Yard, Twickenham

1. Level Access Provision

Previously, the ground floor flats were accessed via steps. In response to the DRP comments, a ramp system has been incorporated within the building circulation that is Part M compliant, rises up 600mm to the FFL of the ground level flats and removes any restrictions on access.

Entrances

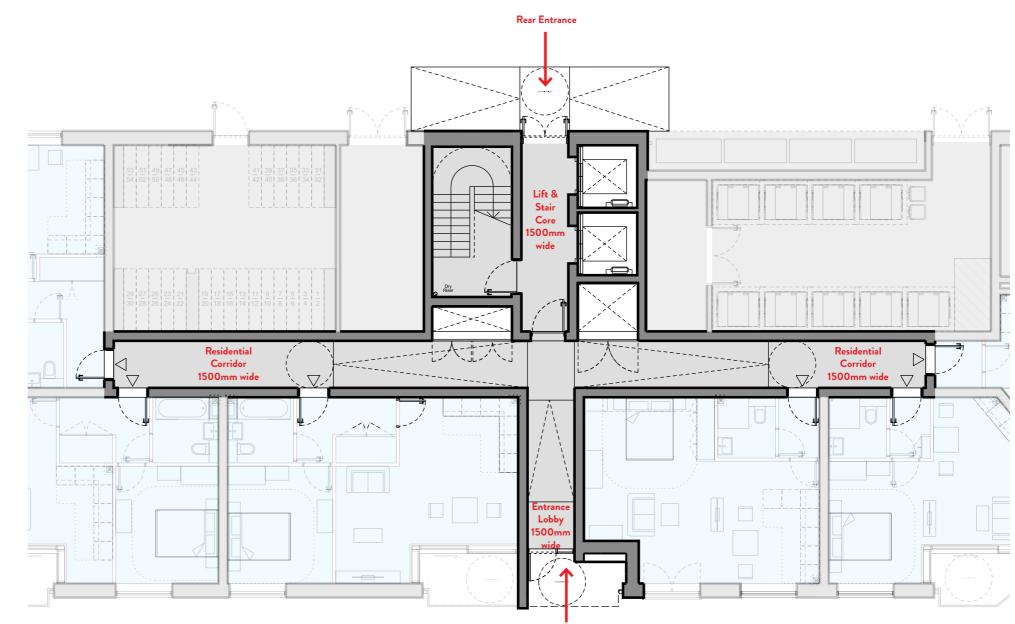
There is one main entrance for the residential units at the front (south) of the building, which opens into the lobby and corridor. There is also a rear entrance which opens straight into the stair and lift core and which is accessed from a ramp along the rear (north) of the site. Both entrances are level from the street, with ramped access rather than steps.

Internal Circulation

The main entrance lobby, the stair core and all corridors are 1.5m wide. This allows a wheelchair to turn.

Vertical Circulation

The stair and lift core houses a fire escape stair and two lifts for normal use. The lifts are for 8 people, with car dimensions of approximately 1400 x 1100mm.



Main Front Entrance

Ground Floor Plan Showing Entrances, Internal Circulation and Vertical Circulation

DESIGN REVIEW PANEL

2. Roof Level Plan

Roof Garden Study

Following on from the DRP suggestion that the roof could be used as accessible garden space, we explored the potential for a roof garden.

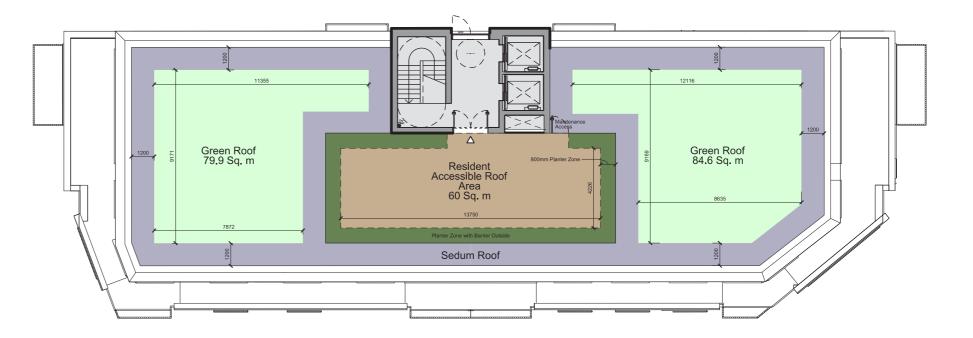
The roof garden is limited to 60 Sq. m or 1 Sq. m per person for a maximum 60 people, to comply with fire regulations.

The adjacent roof plan sketch indicates a decked area enclosed within planters with handrails or glass barriers to provide the 1100mm required. Access to the roof for maintenance is via a gate in the roof garden barrier.

Roof Garden Conclusion

A massing model showing the lifts and stairs that would be required to access the roof level garden is indicated below.

Our opinion is that the proposal contradicts a Pre-app requirement that the proposals should be lower than Bridge House. The access requirements result in a lift and stair core that is increased in height and makes the building visibly taller than the adjacent Bridge House.







Station Yard, Twickenham

3. Public Realm

Public Realm Improvements

Our scheme includes planting to much of the site, to soften the building and improve the local environment. It also increases privacy for the residents on ground floor level, creating a buffer from the street.

Permeable paving is proposed for the rest of the site as part of the SUDS strategy. Part of Mary's Terrace is outside the site but within the ownership of the client, therefore improvements to this area are proposed, including the 2 new accessible parking spaces.

TFL Land

Subject to agreement with TFL who own the adjacent site, we would like to make improvements to their site. This could include planting of shrubs and trees and improvements to the hard surfaces.

All of these proposals fit well with Richmond's scheme to make public realm improvements outside the Albany Pub.

DESIGN REVIEW PANEL

4. Environmental Strategy

Integration UK have been consulted to provide an environmental strategy for the scheme. Refer to the section on Services.

15. PUBLIC CONSULTATION

PUBLIC CONSULTATION

Summary of Public Consultation Feedback

A Public Consultation was held on the 16 July 2019 and 96 people attended.

Summary from Portland Communications

- As of Monday 22 July, we have received 49 responses. Not all respondents provided answers to each of the questions asked. I was submitted via email, 2 were submitted by post and 46 were submitted at the consultation event.
- Based on a review of all the questions including the free form the main concerns raised so far have centred around the potential for increased traffic and difficulty parking.
- Top priorities are: ensuring the design is **sustainable** and **in-keeping** with the surrounding area and ensuring **affordable** housing is made available as part of the scheme.
- There has been positive support for **public realm improvements**, the most popular of which are commitments to plant more trees and improve pavements around The Albany.
- Support for this scheme is far from negative, with the vast **majority** of respondents either supportive of the plans or neutral to them. Out of 48 people who responded to the question on how supportive they were of the scheme, 19 were either strongly supportive or supportive and 15 were neutral.

The main **concerns** highlighted were:

Residents were **positive** about:

- The potential for a reduction in **parking** options which are already limited
- An increase in road **congestion** •
- The **height** of the development
- Improving the area, which is in need of development
- The potential for **affordable** housing
- **Car-free** development plans
- Public realm improvements, particularly tree planting



Photograph of the Public Consultation on 16 July 1019 in Twickenham







The proposed building will relate well to its surroundings, including Bridge House to the east, the Albany pub to the west and the existing housing on Station Yard and Railway Approach to the south	•	The Albany pub is a building of local significance and we are keen that our proposals complement it and deliver enhancements to its immediate environment and public realm		
The proposals adopt a shoulder height of 5 storys, with a recessed sloth foor set back from the main façole We have considered the sting and design of the development, including windows and balconies, to maintain privacy and minimise overlooking	•	We are considering a palette of materials that references local buildings, including other residential developments and railway architecture		
	•	rainway architecture The ground floor is stepped to avoid overlooking		



The boards presented at the Public Consultation

YOUR VIEWS ARE IMPORTANT TO US ore leaving today, please fill out one of our feedback form

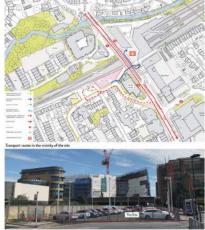
ALTERNATIVELY, SEND FEEDBACK TO

STATION YARD DEVELOPMENT - SITE & CONTEXT









STATION YARD DEVELOPMENT - PUBLIC REALM, PARKING & ACCESS



- We also want to make sure that we deliver the bes
- t would be car free. The site is



STATION YARD DEVELOPMENT - NEXT STEPS



We want to hear your thoughts on these proposals to feed into the design process and inform any subsequent planning

ember of the team if you have any

We have responded to the key issues raised in the Public Consultation as follows:

Increased traffic and parking problems

The proposal will not aggravate the existing problems in the area with parking, nor will it greatly increase traffic to the local streets. This is because the scheme is car-free, with the exception of two accessible parking spaces for the wheelchair adaptable units. The developer will work alongside Richmond Council to restrict parking permits for residents. It would be written into the lease that a car cannot be kept in the locality; this is something that he developer has done before. This is a feasible solution due to the proximity to the station and other public transport routes, with a local PTAL rating of 4 and 5.

Sustainability

The scheme incorporates a number of sustainable features, including a sedum roof, SUDscompliant permeable paving, planting areas and air source heat pumps. These elements, along with a well-designed fabric to be detailed later, enable the scheme to reduce its carbon footprint, increase biodiversity and improve the local environment. This will reduce its impact on the local area and make it attractive to new residents.

In keeping with the surrounding area

The proposal has gone through multiple stages of design to optimise the massing, proportions, materials and detailing in a way that situates the building in its local context. The massing and proportions are consistent with existing buildings in the area, and mediate between taller buildings to the east and smaller residential houses to the south and west. The materials suggested have been inspired by those found in the local area, such as red brick and metal roofing. Elements of brick detailing have been taken from the stepped corbelling effect seen on the local railway buildings. These elements work together to create a building that is contemporary yet sensitive to its varied local context.

Public realm improvements

As explained in the DRP section and the Landscape section, the proposal involves a landscape design on the proposal site, as well as the potential to improve the landscaping on the adjacent land subject to TFL's permission. These improvements would work with Richmond Council's proposals to improve the land outside the Albany pub, with the aim to enhance the public realm in and around the site.

Height of development

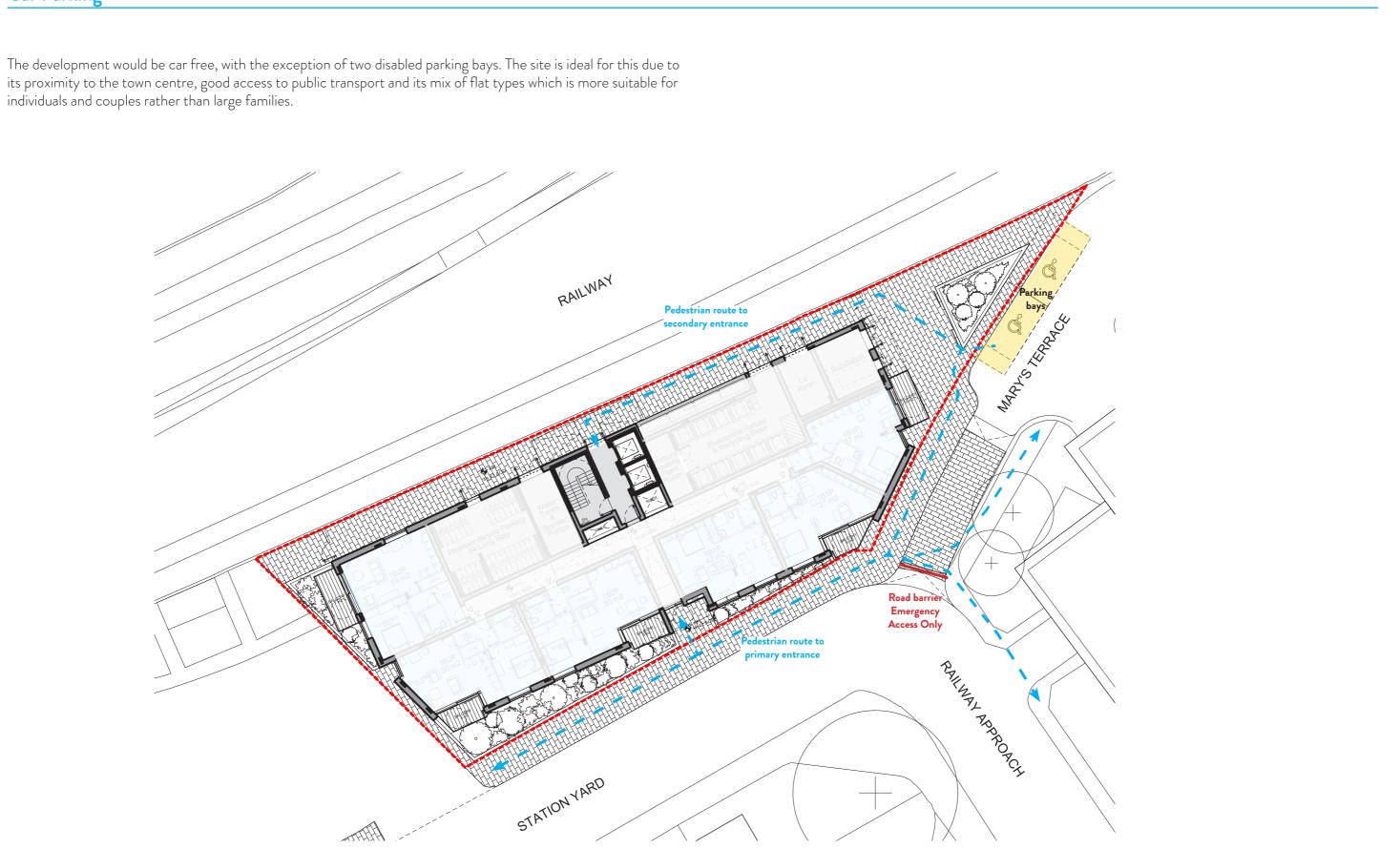
The proposal has been limited to a maximum height of Bridge House at 29.17m AOD, as discussed at Pre-App 1. The DRP indicated that they were very comfortable with the proposed height.

16. PARKING AND REFUSE



PARKING AND REFUSE

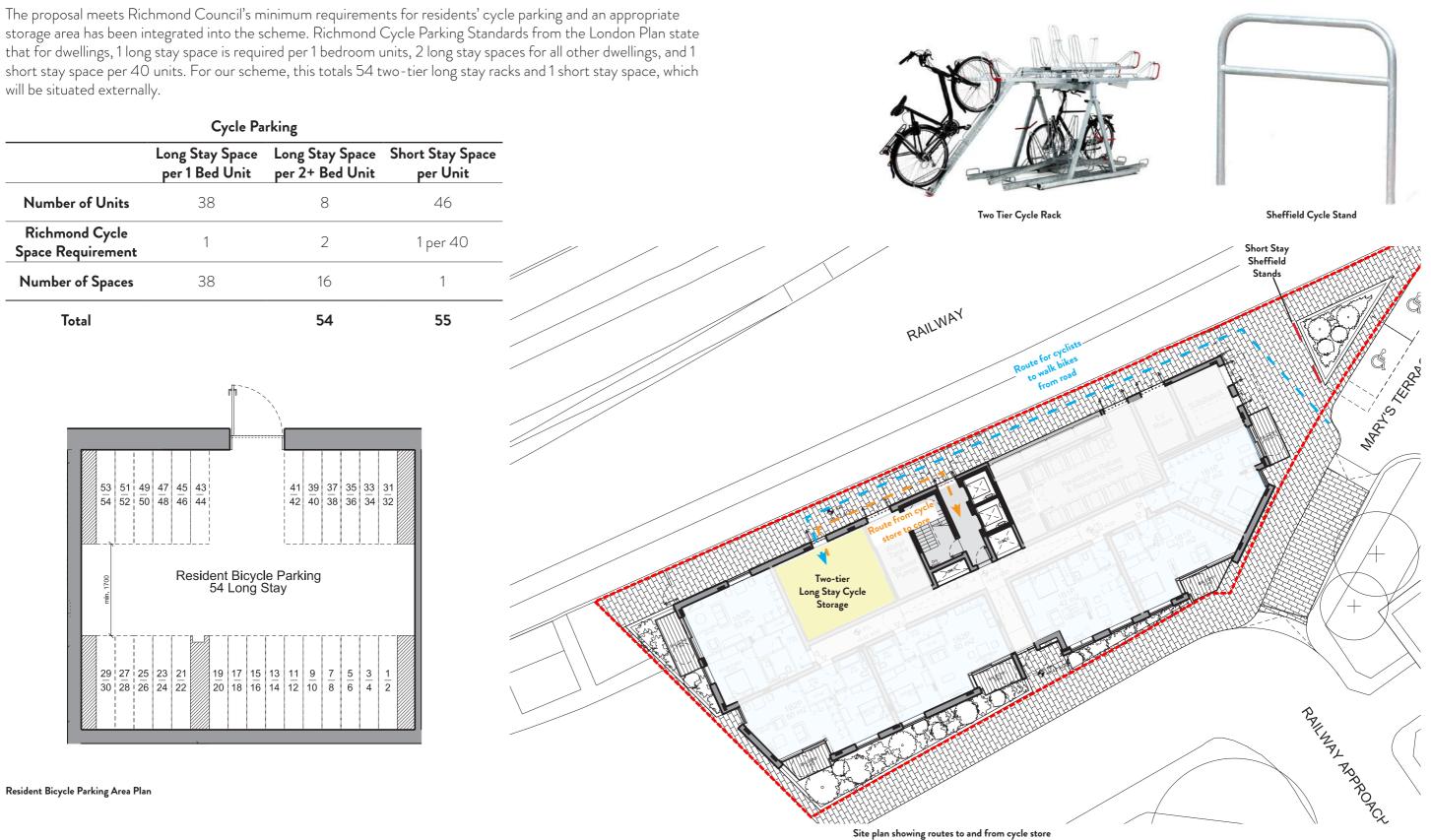
Car Parking



Site plan showing accessible parking spaces and associated routes

Cycle Storage

The proposal meets Richmond Council's minimum requirements for residents' cycle parking and an appropriate that for dwellings, 1 long stay space is required per 1 bedroom units, 2 long stay spaces for all other dwellings, and 1 will be situated externally.



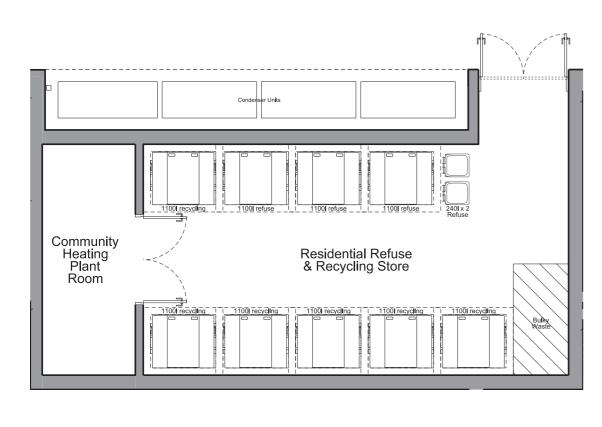
*Source: https://www.london.gov.uk/what-we-do/planning/london-plan/current-london-plan/london-plan-chapter-six-londons-transport-2

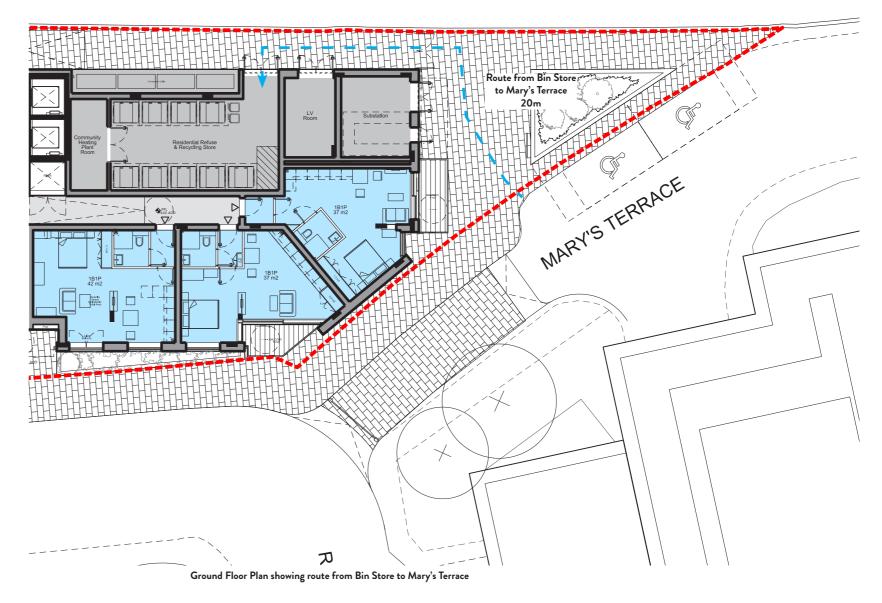
PARKING AND REFUSE

Refuse Storage

Richmond Council's refuse requirements^{*} state that 70l of communal refuse storage containers are required per bedroom, and 6 1100l recycling bins are needed for 46 to 70 flats. This equates to 9 x 1100l bins and 2 x 240l bins for our scheme.

Waste and Recycling						
	Requirement	Number of beds or units	Total Litres	No. of 11001 Bins		
Refuse	701 per bed	54	3780	3.4		
Dry Recycling	6 x 1100l for 46-70	46	6600	6		
		Total	10,380	9.4 bins		





Refuse Store Plan

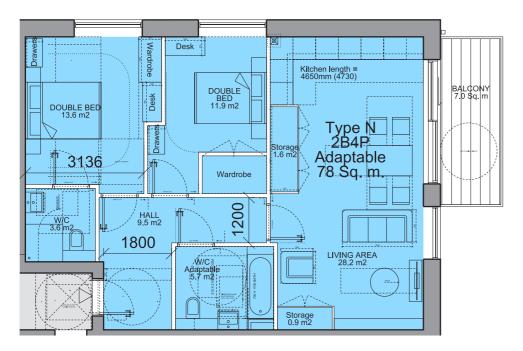
*Source: https://www.richmond.gov.uk/media/7627/refuse_and_recycling_storage_requirements_spd.pdf

17. ACCESSIBLE APARTMENTS

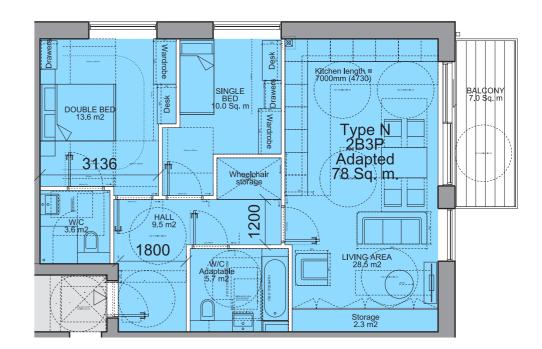
ACCESSIBLE APARTMENTS

Wheelchair Adaptable Dwellings - M4(3)(2)(a)

There is one 2B3P wheelchair adaptable dwelling per typical floor and a 1B2P wheelchair adaptable dwelling on the fifth floor, totalling 5no. M4(3) units across the whole development (10% of the total number of flats). Before the 2B3P unit is adapted it is a 2B4P unit. These units are flat type N, flat numbers 13, 21, 29, and 37.

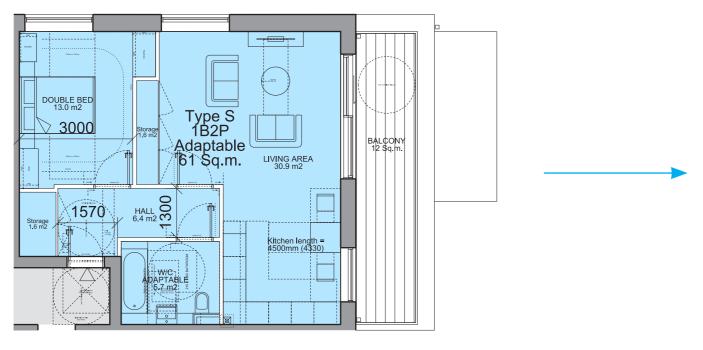


M4(3)(2)(a) Adaptable 2B4P Apartment

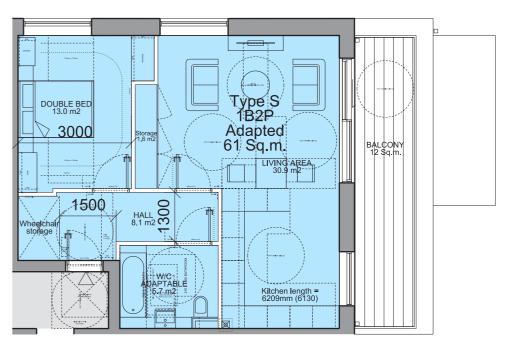


M4(3)(2)(a) Adapted 2B3P Apartment

The 1B2P unit is flat type S, flat number 45.







M4(3)(2)(a) Adapted 2B4P Apartment

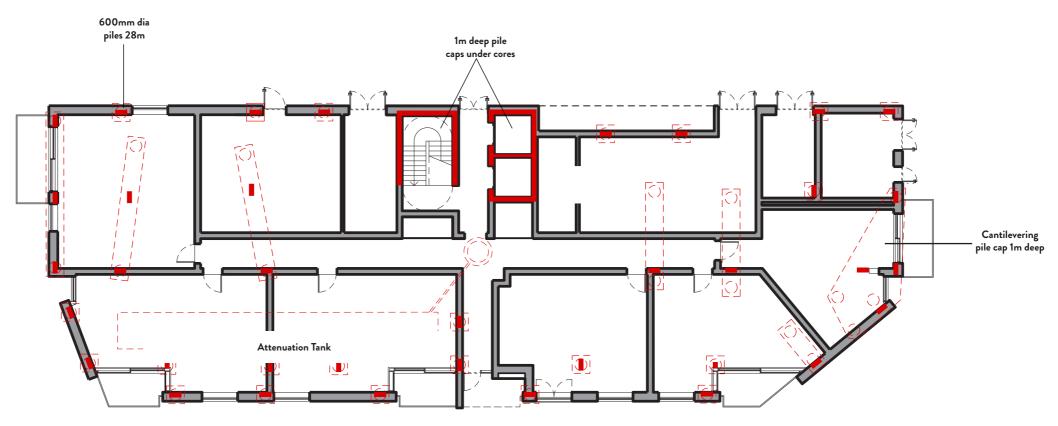
18. STRUCTURE

STRUCTURE

Foundations and Ground Floor Structure

Ground Floor showing Foundations and Structure

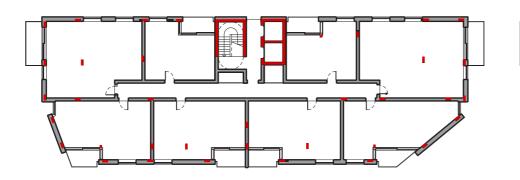
Taking into account the site constraints, columns have been carefully positioned outside of the underground service offset zones where possible. Where not possible, localised cantilevered/bridging foundations will transfer the loads to pile foundations outside of the service exclusion zones.

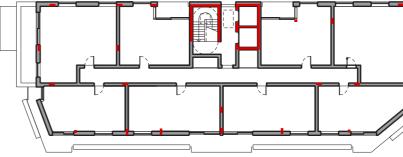


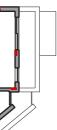
Typical Level

Columns are typically placed within partition locations that run vertically through the building.

Fifth Level Fifth floor should ideally be a more light weight structure / smaller column sizes.





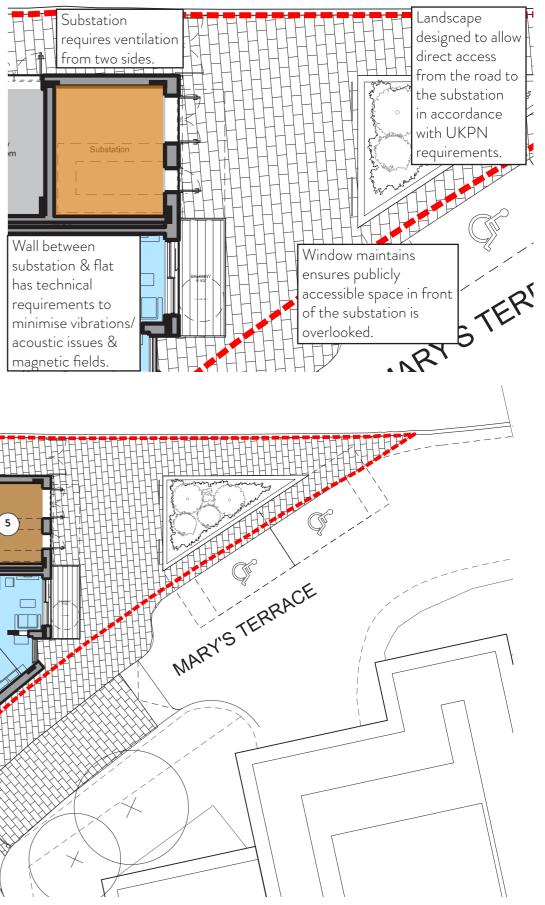


19. SERVICES

SERVICES

Ground Level Services

- 3.5m high

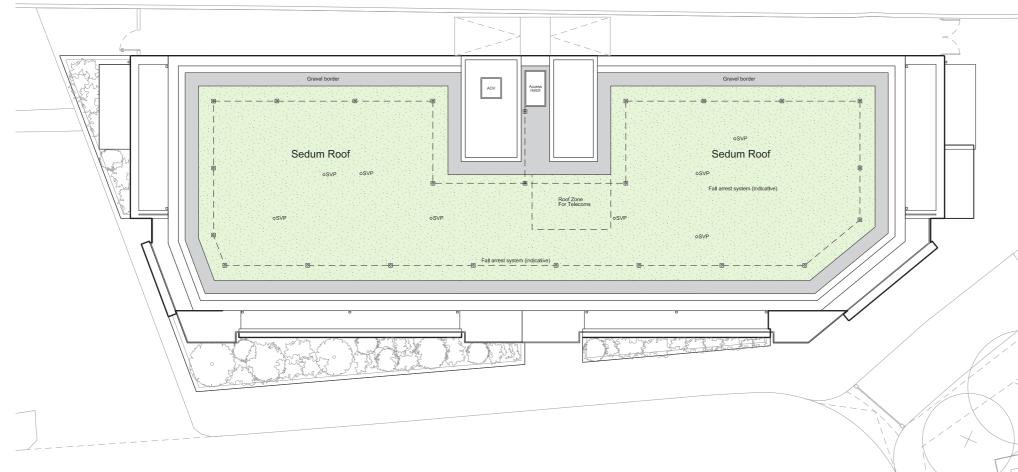




Station Yard, Twickenham

Roof Level Services

- For the SUDs strategy, the proposed development seeks to incorporate sedum roofs where possible, and a 35m³ buried geo-cellular attenuation tank below the building slab.
- Permeable paving is being considered for the car parking bays. The strategy will aid in reducing runoff across the site, improving attenuation, improving building performance and adding ecological value.



20. FIRE STRATEGY

FIRE STRATEGY

Emergency Escape and Fire

- Main escape doors are the main front and rear entrances
- Fully sprinklered building
- Rail exclusion zone forms an escape route
- Dry riser at front of building, can be accessed by fire engine within 18m
- Dry riser in the stair core
- 1.5m² AOV windows in core
- FD60 doors to lifts, stairs and stair lobby
- FD30 doors to risers and apartment
- FD20 doors to internal apartment doors
- Most party walls 60min fire rated
- Core walls 120min fire rated
- Internal lobbies to flats 30min fire rated
- Substation walls 240min fire rated





AREAS & MIX

Flat Mix & Areas

- 46 flats in total
- 18 flat types
- 83% 1 bed flats, 17% 2 bed flats, justified by the lack of parking and proximity to the station which makes the proposal ideal for individuals or couples rather than large families
- 5 wheelchair adaptable units (10% total)
- Floors 1, 2, 3 and 4 are typical they have identical layouts

		Flat Mix		
Level	1B1P (37sqm)	1B2P (50sqm)	2B4P (70sqm)	Total
Ground	3	3	0	6
First	2	4	2 (1 no. WAU)	8
Second	2	4	2 (1 no. WAU)	8
Third	2	4	2 (1 no. WAU)	8
Fourth	2	4	2 (1 no. WAU)	8
Fifth	6	2 (1 no. WAU)	0	8
Total	17	21	8	46
%	% 37% 46%		17%	100%
	:	38	8	
	8	33%	17%	
	Total 1 Beds		Total 2 Beds	



lat Types					
Total Number	Area m2				
1	54				
1	50				
1	51				
1	42				
1	38				
1	38				
10	37				
4	70				
4	50				
4	51				
4	51				
4	52				
4	78				
1	53				
1	37				
2	43				
1	38				
1	61				
46 Flats					

Flat Types

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