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26th April 2013 First Issue

12th April 2013 Draft Issue Executive Summary **Priorities** Proposals Further Detail Station Background

HS2 Manchester Piccadilly - Strategic Regeneration Framework (Draft) Bennetts Associates Architects August 2013

Key

HS2

12

- 2 Existing Piccadilly Station
- 3 New civic arrival space

- 4 New shared concourse and air rights development
 5 Tall buildings mark arrival of HS2 into Manchester City Centre

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and the lot of the lot

- 6 Piccadilly North
- 7 East Village
- 8 Piccadilly Central
- 9 Piccadilly Heights10 Mayfield
- II New Northern Hub platforms

- 12 Piccadilly Gardens13 New Islington14 Etihad Campus
- 15 East Manchester
- 6 Ardwick
- 17 University
- 8 Sackville Gardens
- 19 London Road Fire Station
- 20 Holt Town



15

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The arrival of HS2 into Manchester will be the catalyst for a 'once-in-a-century' opportunity to transform and regenerate the eastern side of the city.

Adjacent to a state-of-the-art public transport node, a new district called Piccadilly Central will create a distinctive sense of place and contain over 14 million sq ft of mixed-use space.

In January 2013 the UK Government announced its commitment to Phase 2 of High Speed Rail 2. The delivery of HS2 will provide a massive economic boon to the cities of the North of England. The proposals in this study offer a structured approach to capturing and passing on those regeneration benefits.

HS2 Manchester Piccadilly - Strategic Regeneration Framework (Draft) **Bennetts Associates** Architects August 2013



Executive Summary

Purpose of the Study

Following the government announcement about Phase 2 of HS2, Manchester City Council (MCC) and Transport for Greater Manchester (TfGM) commissioned Bennetts Associates to carry out an initial appraisal of the following:

- Regeneration potential for the area around Piccadilly (outlined in red), with a particular focus on the area to the north of the station
- Integration of the current proposals for Mayfield (also created by Bennetts Associates)
- Urban design drivers for the station itself, plus aspirational ideas for the creation of a world-class transport node

Regeneration Benefits

The delivery of High Speed 2 (HS2) will bring major regeneration benefits to the region, the city and the area around Manchester Piccadilly. In particular, the Strategic Regeneration Framework illustrated in this report anticipates the delivery of the following benefits:

- The connectivity associated with a best in class multimodal transport hub
- 4.500 new homes
- 625,000 sqm of commercial office space
- 100,000 sqm of retail space
- 1.000 new hotel rooms
- The creation of numerous high quality public spaces
- A string of cultural and community use buildings

- and permeability
- cultural activities

The Team

Bennetts Associates - Lead Architect Jones Lang LaSalle - Commercial Advisor Mace - Quantity Surveyor

The spatial strategies that are the focus of this report have been developed with the aim of helping pass on further regeneration benefits to the wider city and sub-region by:

• Improving the attractiveness of investment in neighbouring areas • Radically improved physical connections Providing new destinations for social and



Priorities

This study has highlighted a number of priorities which HS2 Ltd should address. From Greater Manchester's perspective these are the "must haves" for the proposed scheme.

- A station and rail infrastructure of genuinely world class architectural quality
- Bring HS2 right to London Road. The new platforms and station must come into the heart of the City Centre.
- A real sense of impact on arrival into Manchester must be created.
- The formation of a dramatic new Boulevard that connects three new public spaces - the civic arrival space on London Road, a new public square positioned where Metrolink exits the station and a new city park at the eastern end of the station.
- Connections between the areas to the north of the site (Piccadilly Central) and the south (Mayfield) must be retained and enhanced.
- Appropriate parking provision must be provided and will be carefully incorporated into the surrounding area; avoiding pockets of "dead city".

• The station should provide destination quality retail and leisure offers. In particular, all street frontage should be animated with publicly accessible uses. • The station should incorporate and promote clear and vibrant connections to neighbouring areas including Mayfield, The North Campus and Piccadilly Central.



New entrance plaza on London Road
New boulevard connecting London Road to Fairfield Street
New public space adjacent midpoint of HS2 platforms and Metrolink

- Mayfield Strategic Regeneration Framework 9 New public park and special use building 10 New residential towers on the site of former Ancoats Station11 Dense commercial development focused around new public squares 13 Residential blocks focused around canal basins
- **16** High rise development at arrival point of HS2

Proposals

The proposals that follow have been developed within the context of spatial, policy and economic objectives. A number of key themes have informed their evolution:

Maximising the Opportunity

Using the catalyst of HS2s arrival as a 'oncein-a-century' opportunity to fundamentally change Manchester by creating a new gateway and extending the city centre eastwards to the inner ring road and beyond.

Place Making

Creating a new district focussed around the Station and Boulevard with public spaces, streets and buildings that empower people, generate activity, foster belonging and promote civic pride.

Townscape Integration

Imagining an area that has its own character but also feels like a seamless extension of the city centre and facilitates new routes, connections and possibilities.

Neighbourhoods of Choice

Envisaging a diversity of neighbourhoods that attract people to live, work and socialise by offering them inspiration, opportunity, connectivity, identity and wellbeing.

Transport Connectivity

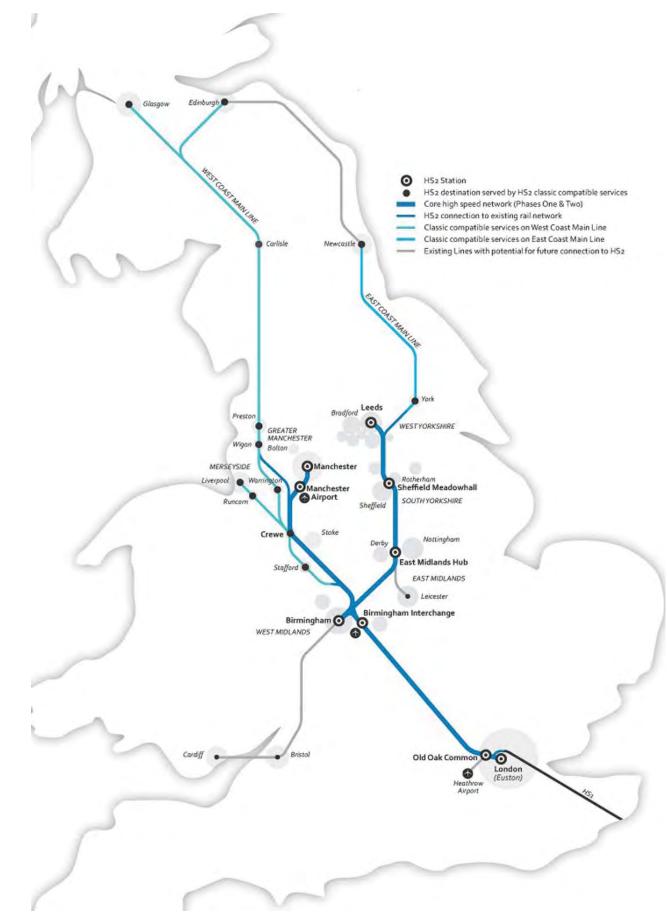
Creating proposals that capture the potential for Piccadilly Station to be one of the world's great transport buildings and capitalise on the area's unique location on the doorstep of one of Europe's largest multimodal transport interchanges.

Market Viability

Defining proposals that offer a clear vision to investors and that are able to adapt to changes in demand.

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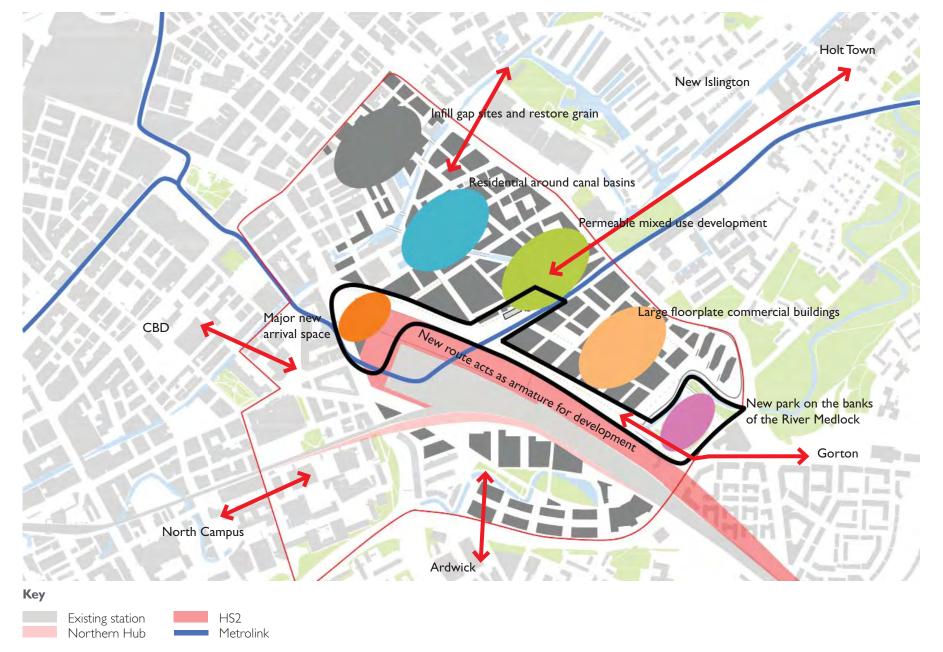
HS2

network.

The cost of Government's initial preferred route, station and depot options for Phase Two is estimated at around £16.8 billion, without the spur to Heathrow (if the spur is included the costs for Phase Two would rise to around $\pounds 18.2$ billion). This is above the January 2012 central estimate of \pounds 16.4 billion, but within the cost range that HS2 Ltd produced at that time of £15.7 billion to £18.7 billion. The construction of the full network is expected to cost £33.1 billion (or \pounds 34.5 billion if the spur to Heathrow is included).

Government's own initial economic studies estimate the benefits to Manchester will include, station-supported employment of 30,000 jobs (Manchester Piccadilly 29,700; Manchester Airport 300). Stationsupported housing: 3,100 (Manchester Piccadilly)

High speed rail has dramatically improved inter-city transport all over the world in the last 50 years. HS2 will see Britain adopt the worldwide standard and finally see the major cities of the Midlands and the North connected to the extensive, Europe-wide high speed



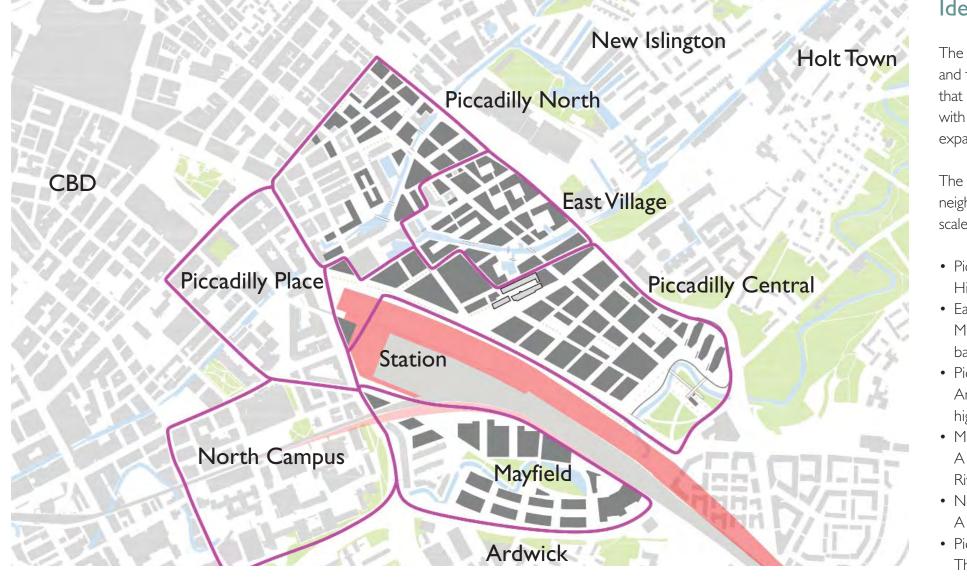
Strategic Principles

A high-level review of the potential regeneration strategy for the area was undertaken. This highlighted a potential framework that the proposals have evolved from. The diagram opposite summarises the ideas that came out of the review.



- Key
 Mayfield
 North Campus and The Corridor
 Piccadilly Station
 Piccadilly Central
 New public park
 Ardwick

1P



Identity (Neighbourhoods of Choice)

The proposals aim to maximise the regenerative potential of HS2 and the internationally significant multi-modal transport interchange that Piccadilly Station will become. New Neighbourhoods of Choice with strong individual identities will be developed around the station expanding the city centre to the east.

The diagram opposite shows the possible configuration of these new neighbourhoods. Detail of their individual identities, their likely uses, scale and density are described later this report. In outline:

- Piccadilly North Historic street pattern reinstated.
- East Village basins.
- Piccadilly Central
- Mayfield
- River Medlock. North Campus
- Piccadilly Place
- facility.

Mixed used development with residential focus around canal

An area of large office developments around public squares; with high-rise residential towers and a new city park.

A new mixed use city quarter on the banks of the remediated

A research intensive knowledge environment.

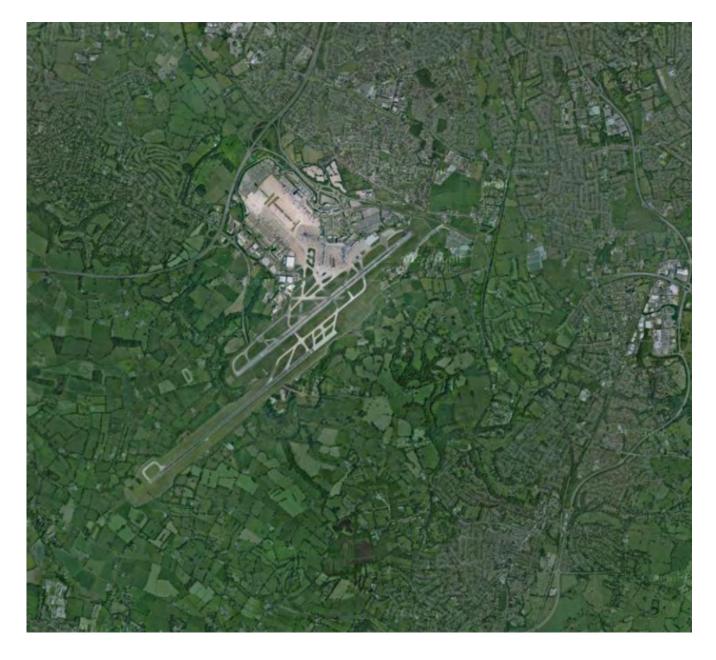
This area has already undergone extensive change with the creation of new hotels and commercial floor space. London Road Fire Station is within the SRF area and the SRF supports efforts to secure the re-use and refurbishment of this important historic



North Campus

Holt Town





North Campus

A development strategy has been produced for the University of Manchester's North Campus. The area will be a mixeduse district with a focus on knowledge industry research-related activity. Located southwest of Piccadilly Station and west of London Road from the Mayfield Strategic Regeneration Framework; the area will benefit directly from the advent of HS2 and its proximity to the integrated transport hub. The use mix is complementary to those envisaged within the HS2 SRF.

Holt Town

Holt Town lies to the northeast of the Piccadilly SRF, between Piccadilly Central and the Etihad Campus. Holt Town is the focus of a separate regeneration study. This study looks to improve connections with Piccadilly. The retained mill and the newly created public plaza outside it form a key connecting route to Holt Town. The Metrolink runs through this plaza and continues on to Holt Town itself. The Holt Town study also identifies improvement works to Great Ancoats Street (the inner ring road) that look to transform its nature and break down its present barrier effect.

Manchester Airport

Manchester Airport will receive an HS2 stop. A strategic study of the HS2's impact on Manchester Airport has been carried out. This study focuses on optimising transport links. It also questions the impact the HS2 station will have on the growth and development patterns in an around the airport.



Pedestrian Connections

The movement of people through streets and spaces is the lifeblood of any city. Ensuring permeability through the proposals and designing animated and legible connections with neighbouring areas stitches the proposals into the city fabric and helps pass on the benefits of HS2 to surrounding areas.



Bicycle storage

Coach station

Buses

Public Transport Network

Focused investment in the expansion and connectivity of Manchester's public transport infrastructure will continue to deliver increased mobility and the potential to access employment.

HS2 will consolidate international, national, regional and local transport networks into a single site at Piccadilly. When HS2 and the Northern Hub are completed, Piccadilly will offer:

- Mainline rail services across the UK
- England
- Local rail services
- Metrolink tram services
- Access to the local bus network
- A coach station
- A taxi stand
- Large capacity bicycle storage

• A high-speed rail connection to Manchester International Airport • High-speed rail connections to major urban centres in England

• Reduced travel times and improved capacity across the North of



Road Network

The proposals create a revised road network on a grid that is sympathetic to the scale of Manchester's historic grain. Stitching new roads into the existing network ensures access and permeability. A detailed traffic study would be undertaken in light of the proposals to test assumptions and optimise the eventual solution.

A new boulevard is proposed. This acts as a high quality link between Piccadilly and East Manchester. Bus services, a coach station, the redeveloped Metrolink concourse and taxi drop-off and holding points are located along the boulevard. New development grows from this spine.

Initial thoughts on HS2 Phase 2 assume the closure of several roads beneath the rail lines. The proposals contained in this report question these assumptions. Physical links between the areas to the north and south of the station are vital to avoid the rail infrastructure presenting a major barrier to City Centre connectivity.



Heights and Massing

The scale of development balances the City's vision for Manchester's position in a globalised future with the scale of its historic built fabric

providing for tall buildings in appropriate locations.

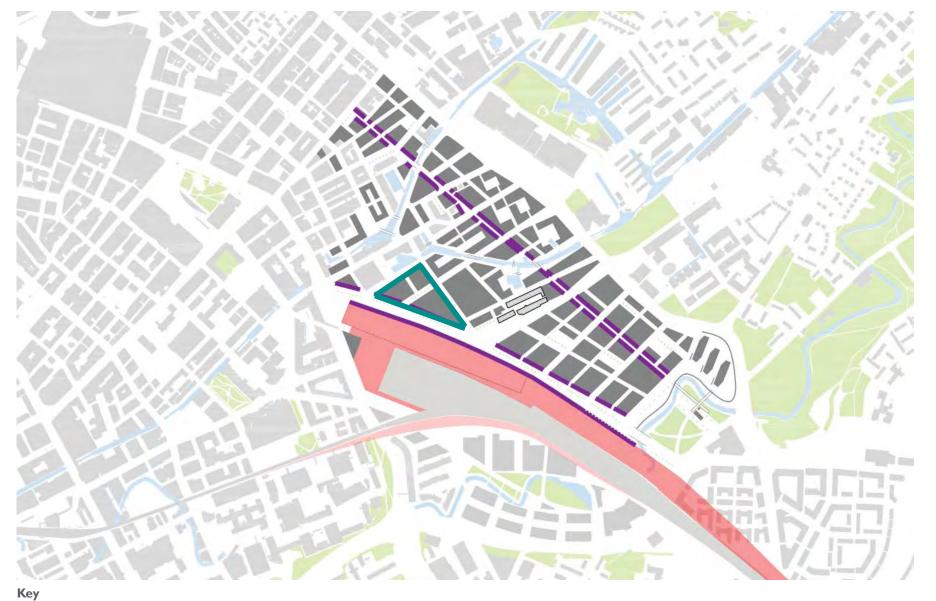
- The quality and humanity of urban spaces is protected whilst



Uses

A mix of uses is essential to ensure commercial viability and economic sustainability. Every city centre should avoid large areas dedicated to a single use. The emphasis of each neighbourhood highlighted in the proposals and the spatial arrangement of uses within those neighbourhoods will change and adapt both before and after their redevelopment. However the desirability of a mixture of uses appropriate to a city centre location and the need for sufficient public amenity to ensure long-term flexibility and vitality will not.

The use mix indicated in the proposals is intended as a guide and to help appraise commercial viability. Uses other than those shown can be accommodated in a controlled fashion.

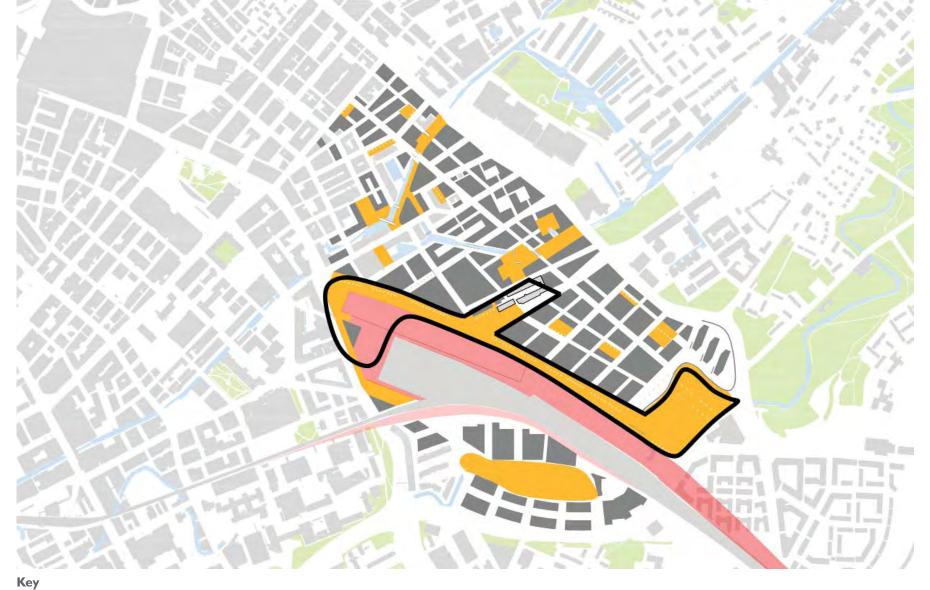


Active Frontages and Ground Floor Uses

Wherever possible in a city centre there should be active street frontage and the public should have access to the ground floors of buildings. Areas of street that are not animated by visible activity give rise to pockets of "dead city". This has a potentially negative impact on the perceived security of an area. It is therefore assumed that all street frontages will be active. Two major corridors of active frontage are indicated on the diagram opposite.

The opportunity exists to incorporate a major retail destination into the proposals. One possibility could see the lower floors of the landmark buildings at the front of the station given over to such a use.

Possible major retail destination



Public Spaces

Streets are the principal public space of the city. In addition a network of public spaces will support the high density essential for the City Centre to foster sustainable growth. These will offer a range of public outdoor amenity space. The proposals make provision for:

- **Piccadilly Station**
- A new civic orientation space to the north of the HS2 concourse • A new boulevard that provides a high quality connection between Piccadilly and the communities of East Manchester
- major festivals and public events.
- A series of public spaces with different scales and characters

Key public spaces

• A redesigned and reinvigorated arrival space at the front of

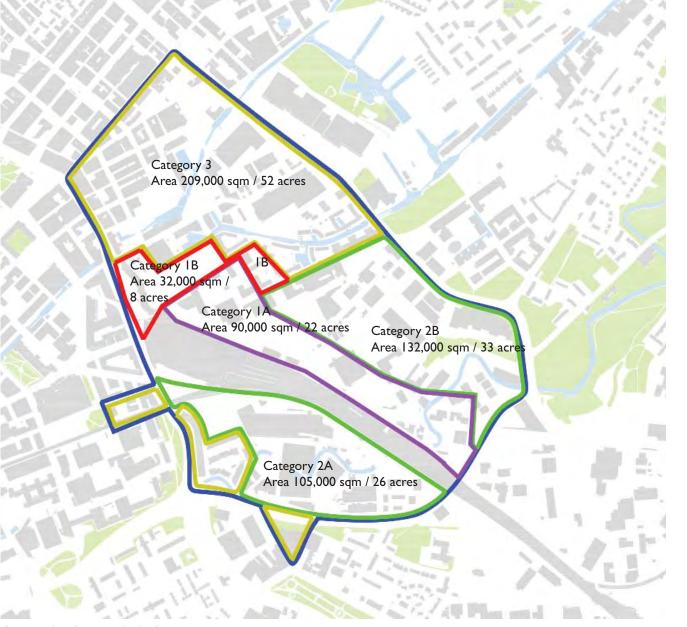
- A new public park connected to Mayfield Park and the
- Medlock Valley. This park provides an opportunity to host



Parking

As the public transport network continues to improve reliance on the car will diminish. However it is important to acknowledge that access to the City Centre and to the transport network will - for many - continue to rely on the car. HS2 brings with it a requirement for large capacity parking. The proposals envisage achieving this with several Multi-Storey Car Parks (MSCPs) that also serve the vicinity around the station. In addition individual buildings may adopt underground parking solutions.

The plots identified for MSCPs are indicated in purple opposite. In total these could provide 3,400 spaces. In addition the Mayfield area to the south has the potential for a further 1,400 parking spaces in MSCPs and below ground parking lots. Parking provision will continue to be reviewed as the proposals develop.



Categories (over existing)

Density

Increasing the density of development in cities is crucial to provide sustainable growth and long term economic competitiveness. The appropriate density of urban development must balance economic viability, urban design strategy and policy objectives. An indication of development density is Floor Space Index or FSI (sometimes called Floor Area Ratio). This is the total building floor area (the quantum of development) divided by the development area (the site). The diagram opposite shows the development area. Details of the Floor Space Index of the proposals and a number of comparators are given in the table below. Areas with a large amount of existing building stock are excluded from the FSI calculations.

| | Quantum of development | Site Area | FSI |
|-------------|------------------------|--------------|-------|
| Category IA | 48,000 | 90,000 | N/A |
| Category IB | 170,200 | 32,000 | 5.3:I |
| Category 2A | 260,677 | 105,000 | 2.5:I |
| Category 2B | 502,968 | 132,000 | 3.8:1 |
| Category 3 | 358,550 | 209,000 | N/A |
| TOTAL | I,340,395 | 568,000 | |

| | FSI |
|------------------------------------|-------|
| First Street Development | 2.7:1 |
| Kings Cross Development, London | 2.7:1 |
| Spinningfields | 4.5:1 |

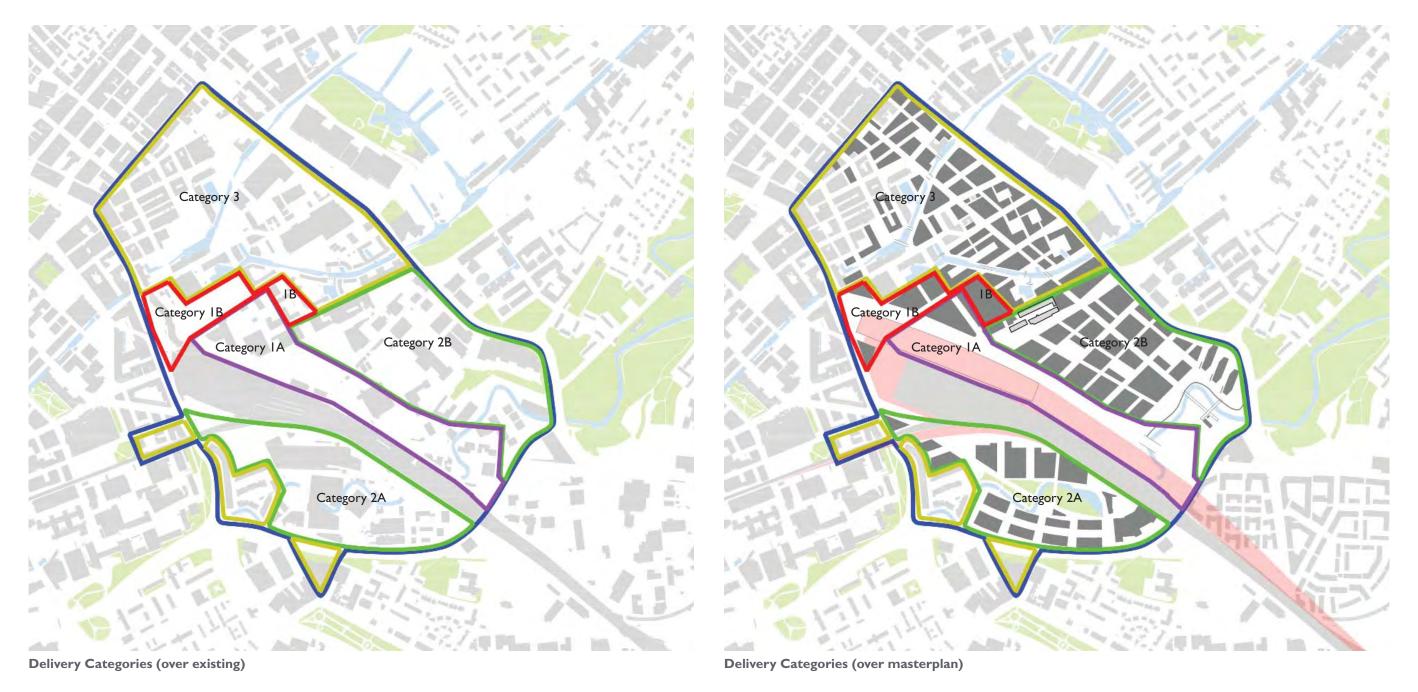
Indicative Area Schedule

| Development plot | Floors | Floorplate (m²) | Principal use | Commercial GEA (m ²) | Residential F GEA (m ²) | Retail/leisure GEA (m²) | Hotel GEA (m²) | Parking GEA (m²) | Community GEA (m ²) | Total (m²) | Total (sqft) |
|------------------|--------|--------------------|---------------|-------------------------------------|--|----------------------------|-------------------|---------------------|------------------------------------|---------------|-----------------|
| Category IA | 10 | 3,200-3500 | Commercial | 43,200 | 0 | 4,800 | 0 | 0 | 0 | 48,000 | 516,668 |
| Category IB | 8-20 | 660-2,200 | Hotel | 42,300 | 0 | 7,200 | 59,100 | 61,600 | 0 | 170,200 | 1,832,018 |
| Category 2A | 4-30 | 1,700-2,600 | Residential | 97,705 | 121,600 | 13,782 | 27,590 | 0 | 0 | 260,677 | 2,805,904 |
| Category 2B | 4-20 | 280-3,600 | Commercial | 294,120 | 4, 00 | 45,710 | 0 | 28,800 | 20,238 | 502,968 | 5,413,902 |
| Category 3 | 5-7 | 90-1,750 | Residential | 146,920 | 167,100 | 28,300 | 0 | 3,300 | 2,930 | 358,500 | 3,859,400 |
| Total | | | | 624,245 | 402,800 | 99,792 | 86,690 | 103,700 | 23,168 | 1,340,395 | 14,427,892 |
| Equivalent units | | | | | 4,500 homes | | 1,000 rooms | 4,800 spaces | | | |

Notes

- The figures are an assumption of the maximum appropriate new development and do not include existing stock except the retained mill building. -
- Buildings with a footprint over 2,000m² (GEA) are assumed to contain an atrium. Atria are calculated at 15% of the footprint above ground floor level. -
- Parking spaces are calcuated at one space for every 30m² of GEA. -
- New homes are calcuated at one home for every 60m² of GEA.
- Hotel rooms are calculated at one room for every 80m² of NIA. -
- All figures have been rounded down to reflect the high level nature of the study. -
- The areas shown above are for guidance only and should be re-measured by a Chartered Surveyor prior to any valuation or feasibility exercise.

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Category 2A (Mayfield)



Category 2B (Piccadilly Central)

Category I (HS2)

Category 3 (remainder)

Delivery

For the purposes of delivery the areas within the SRF are parcelled into a number of categories. The categories are indicated on the opposite page and can be described as:

- Category IA Land
- Category IB Land HS2 station configuration
- Category 2 Land partners.
- Category 3 Land potential for the City to capture some value.

It is unfeasible that an area of this size (140 acres) could be delivered in a single phase. The diagrams on this page show how the different categories of land would be phased.

The first phases of work are focused on the Mayfield Strategic Regeneration Framework. The next phase of development includes the delivery of the HS2 station works, the areas required to deliver it and the boulevard. The next phase of development is focused on Piccadilly Central and would likely start with the development of the blocks immediately adjacent to the HS2 platforms before expanding in an easterly direction. Category 3 land would be developed on a block by block basis.

Development and operational area prescribed by HS2.org.uk

Essential to the delivery of Manchester City Council's preferred

Key gateway sites, presently low density / low value but capable of hosting large scale / valuable mixed use development. This land could feasibly be acquired and developed by the City and its

Sites and buildings with potential for incremental repurposing and upgrading. Delivery led by the private sector but with the



Global, Local and Internal Environments

- CO₂ emissions reductions on site wide scale
- Local air pollution minimised (e.g.NOx)
- Local flood risk addressed



Materials

- Local sourcing
- Re-use demolished materials • Use of recycled materials



Energy Low carbon design

• Energy efficiency



Education and Employment

- Increase local jobs
- Potential for apprenticeships/ internships



Land, Water and Air

- Brownfield site
- Improve water quality of Medlock
- Suitable air quality emissions



Waste

- Design out waste
- Reduce construction waste to landfill
- Recycling facilities



Health and wellbeing Open space will promote wellbeing

Land and Ecology

- Planting of open spaces and river clean-up will improve local ecological value
- Green roofs will provide additional habitats
- Possible link to green corridor infrastructure

Community and Inclusion

- Community space • Open development

Transport and Mobility

- Pedestrian priority
- Secure bicycle storage
- Good access to local transport network

Housing and Amenity

- Inclusion of high-quality residential and hotel uses
- A "Neighbour of Choice"

Culture, Heritage and Built Form

- Sympathetic design to local architecture
- Leisure facilities will improve local cultural offerings

Sustainability

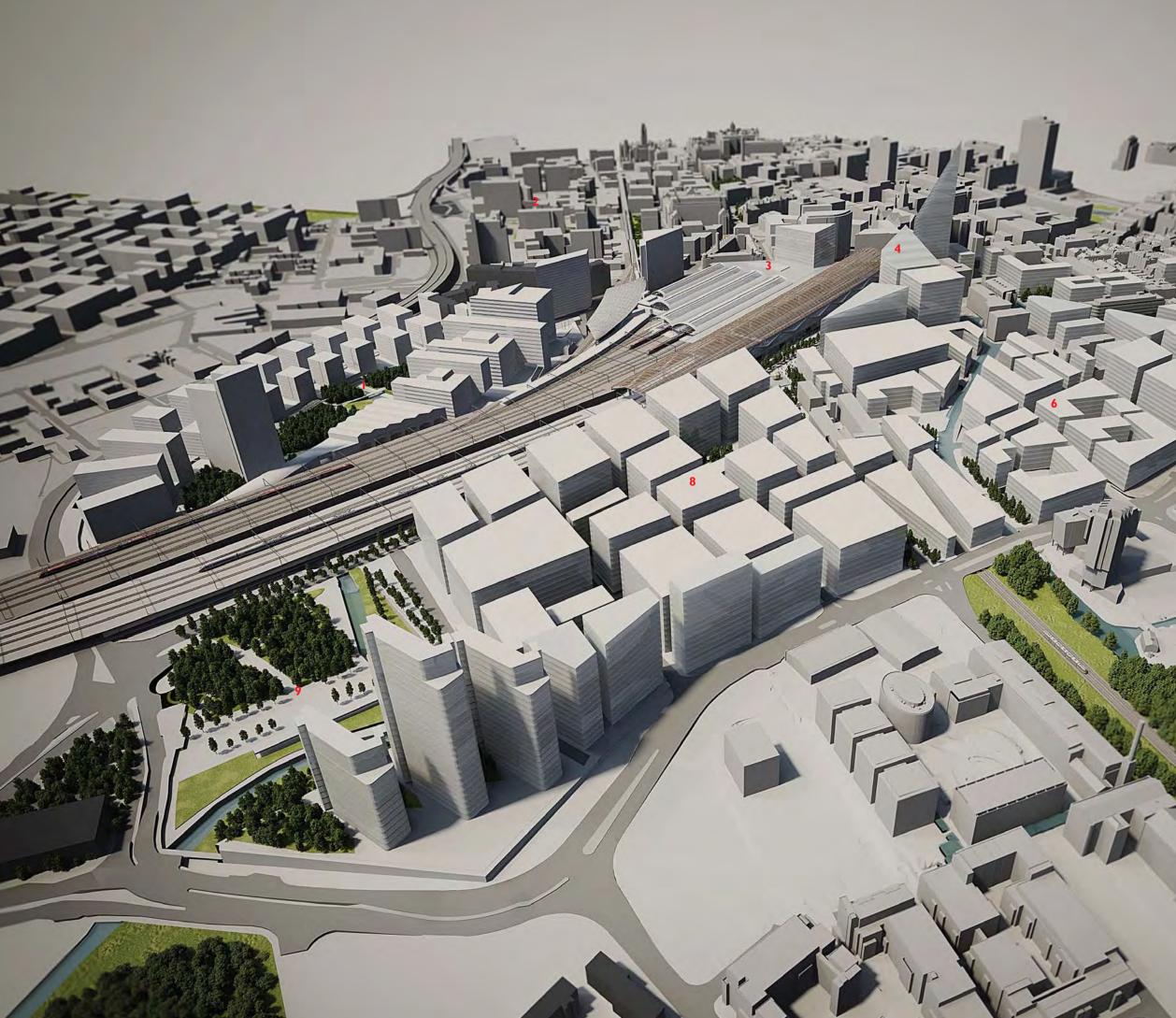
The HS2 SRF should aim towards exemplary standards in this regards and, given its scale, could make a major contribution to Manchester's drive towards being one of the UK's leading sustainable conurbations. As a birthplace of the modern city and 19th Century industrialisation, it is fitting that Manchester should play a leading role in addressing the climate effects of the global economic transformation that followed.

The City Council's 'Climate Change Call to Action' adopted in 2009 describes a new way of thinking about the subject, which fits in the context of Manchester's Community Strategy and describes how taking early action on climate change can deliver an even better city in which to live and work. The Call to Action focuses to a large extent on the urgent task of reducing the City's impact on the climate by establishing 'low carbon living' to reduce emissions by at least a third (equivalent to 1.3 million tonnes) by 2020. It is also a plan to capitalise on the opportunities that this will provide for improved quality of life, prosperity, regeneration benefit and social sustainability.

It has not been possible to explore sustainability in any detail during this stage but future development of the scheme would look to define targets for environmental performance and potential commitment to site-wide energy strategies along the lines of that indicated opposite.

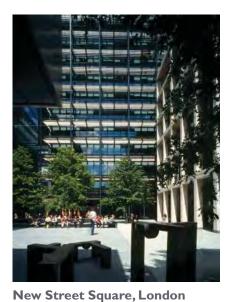
Further Detail

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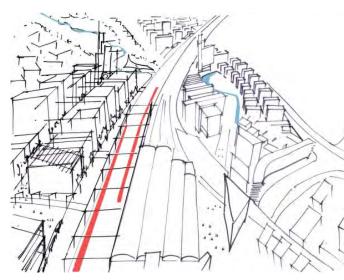
- Key
 Mayfield
 University and The Corridor
 Piccadilly Station
 Landmark buildings
 Piccadilly North
 East Village
 New Islington
 Piccadilly Central
 New public park

2





New Street Square, London



Early Development Sketch



Kings Cross, London

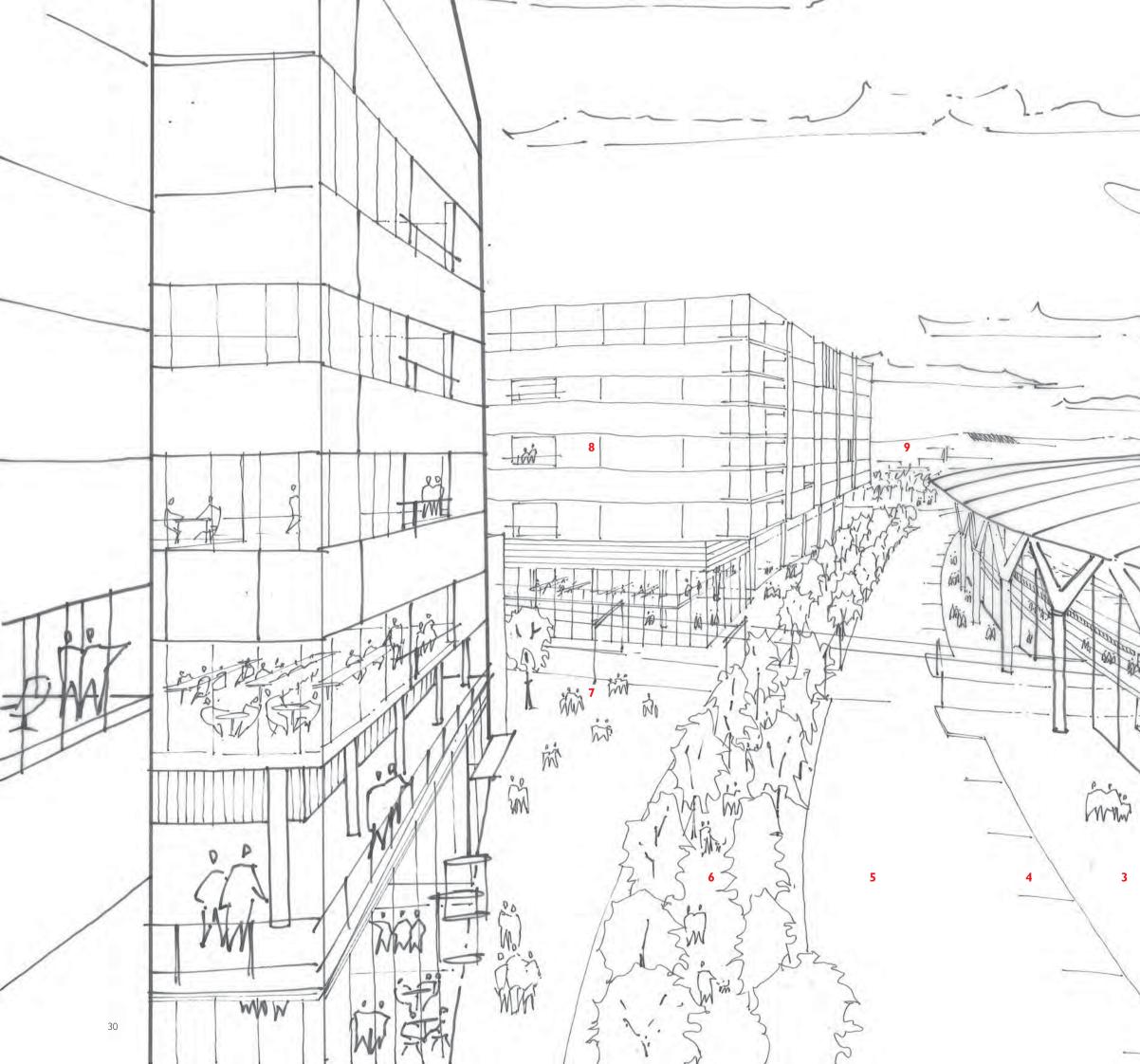
L+-A

An entirely new area of large commercial buildings; Piccadilly Central will capitalise on the unrivalled connectivity that HS2 will deliver. Eschewing out of town development models and, instead, offering large office floorplates and large hotels in the City Centre. Together with the regenerated Mayfield area; Piccadilly Central will represent a significant easterly expansion of Manchester's central business district.

A spire of development at the confluence of the redeveloped station entrance and the newly created boulevard is supported by an area of dense, urban blocks set around a series of public spaces. The most prominent of which is served by the Metrolink and is located at the mid-platform entrance of the new HS2 concourse. This square is characterised by the retained mill building - the only built heritage remaining on the site – which would be redeveloped for community or arts use.

Piccadilly Central will be an area characterised by dense commercial development focused around a series of high quality public spaces

Piccadilly Central



- .2 atte A D al en 20 WW 29 Key
HS2 Platforms
Retail at Lower Concourse
Pavement 4 Parking 5 Carriageway 6 Tree lined walkway 3 7 New square8 Piccadilly Central 9 Park





Avenue des Champs-Elysees, Paris





Avenue General de Gaulle, Paris

Chapultepec, Mexico

Boulevard, Kiev



Piccadilly Boulevard - a major new urban thoroughfare that utterly transforms the character and connectivity of the area.

Piccadilly Boulevard

to neighbouring, more dense development.

The boulevard connects two important public spaces: a major new public arrival space at the front of Piccadilly Station and the new park formed on the banks of the River Medlock. At its midpoint a new public square is created. The square is positioned to take advantage of a retained mill building and is animated by the Metrolink as it leaves the station en route for the Etihad Campus. A lower station concourse at the midpoint of the HS2 platforms connects directly to the boulevard and the square.

A new route follows the edge of the HS2 viaduct connecting East Manchester directly to London Road. This single device radically improves connectivity and overcomes the present division between the City Centre and areas to the east. If not developed appropriately the new rail infrastructure could add to the present division caused by the existing rail viaduct: creating a barrier to connections. Instead, the new route aims to turn this on its head by making the rail infrastructure a positive contribution to the

urban design of the area. At street level, tucked beneath the tracks, should be retail and business space, bus stops, a coach station and taxi stands – all the animation associated with a bustling city street. Similar in nature to a continental boulevard the route provides a clear channel for movement through the city and acts as an armature











Docklands Bridge, London Bosco Verticale, Milan

The Park

A counterpoint to the spire of development at the front of the redeveloped station; high rise residential buildings sit on the raised ground that was once Ancoats Station. They enclose a new south facing city park on the banks for the Medlock. Together these form a gateway into Manchester on arrival from the south of Britain and Manchester International Airport.

The park would make an ideal location for a signature cultural building or a great venue for large public gatherings and will help regeneration benefits spread deeper into East Manchester.

Piccadilly Boulevard terminates in a major new city park. Lined with high rise residential developments the park forms a focus for leisure and recreation and could play host to major festivals and events.

de Young Gallery, San Francisco

St Justa, Lisbon





Beetham Tower, Manchester

South of Piccadilly Station is the Mayfield Strategic Regenerat

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The redeveloped viaduct arches could provide a dynamic new urban quarter adjacent to Mayfield



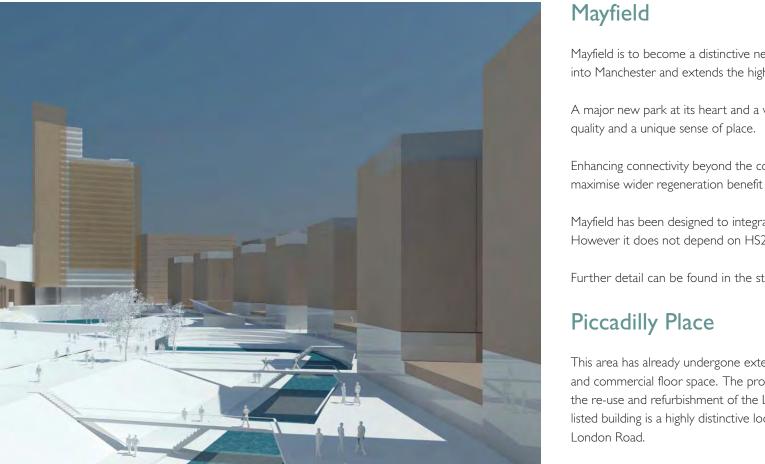
Study of the view towards Piccadilly Station



Piccadilly Place



North Campus



North Campus

A development strategy has been produced for the University of Manchester's North Campus. The area will be a mixed-use district with a focus on knowledge industry research-related activity. Located southwest of Piccadilly Station and west of London Road from the Mayfield Strategic Regeneration Framework; the area will benefit directly from the advent of HS2 and its proximity to the integrated transport hub. The use mix is complementary to those envisaged within the HS2 SRF.



Mayfield with a major new park and rejuvenated Medlock River at its heart

Mayfield is to become a distinctive new urban quarter that defines a key gateway into Manchester and extends the high quality environment of the city centre.

A major new park at its heart and a vibrant mix of uses will give a destination

Enhancing connectivity beyond the confines of the site will act as a catalyst to

Mayfield has been designed to integrate seemlessly with the wider HS2 SRF. However it does not depend on HS2 and will be delivered as a first phase.

Further detail can be found in the stand alone Mayfield SRF report.

This area has already undergone extensive change with the creation of new hotels and commercial floor space. The proposals in this SRF support efforts to secure the re-use and refurbishment of the London Road Fire Station. This Grade II* listed building is a highly distinctive local landmark that is pivotal to the character of







The Lanes, Brighton

Canal Street, Manchester

East Village, New York

T IA \top 1 1 m

East Village

The proposals envisage the area identified as the East Village developing into a mixed use area. Apartments, townhouses, smaller office floorplates, retail, cafes and bars would be contained in a series of squares: some public, some private. The squares will be connected by bridges, lanes and portals and each would have an individual identity. The intensity and diversity generated by this kind of urban fabric makes areas such as Canal Street in Manchester, Soho Square in London and the Nine Streets in Amsterdam so vibrant and attractive. The permeability of the area offers greatly improved connectivity between New Islington and the City Centre.



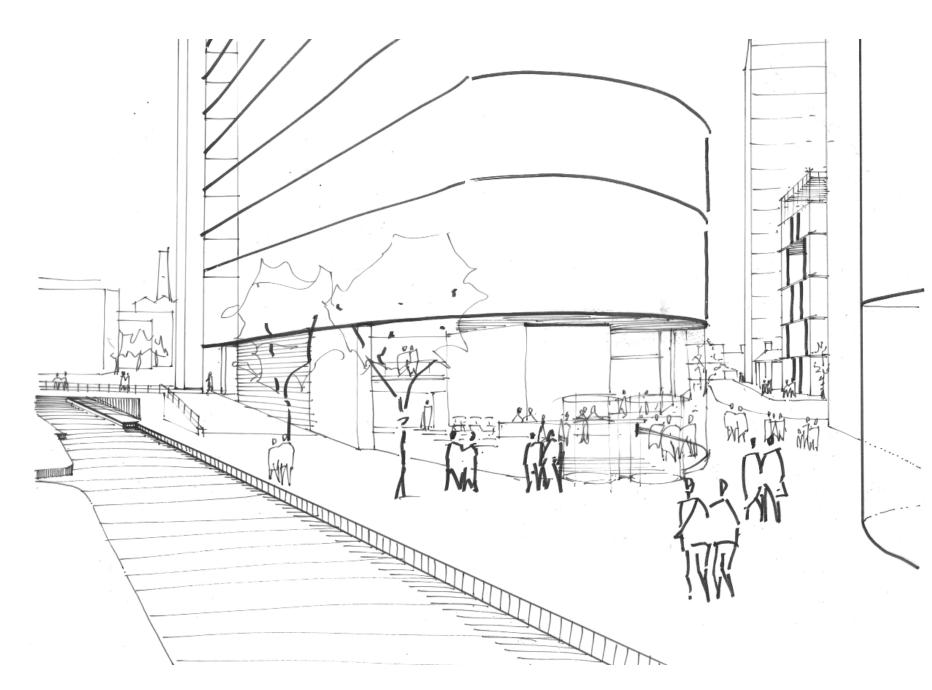
Nine Streets, Amsterdam



Northern Quarter, Manchester

Spinningfields, Manchester

Spinningfields, Manchester



Piccadilly North

To the north of the station the historic grain of the city is more discernible than anywhere else in the Eastern Gateway. Historic road patterns and pockets of built fabric remain around Piccadilly basin, the Rochdale Canal, and the area which neighbours onto the Northern Quarter. New development in these areas would reinforce this grain, acknowledging the scale of neighbouring city blocks and reinvigorating connections that existed in the past. The use mix in this area would be governed by demand but a variety of residential development, focused on the canal basins, would be encouraged.

In areas where there is less historic grain new development steps up in scale. For example, the area contained by Great Ancoats Street and the Rochdale and Ashton Canals becomes a new office led development akin to Spinningfields.



加速電気を変換すると

- Key
 New Civic Arrival Space
 Air rights development
 HS2
 Listed train sheds
 Northern Hub
 Boulevard
 London Road Fire Station
 Mayfield Plaza

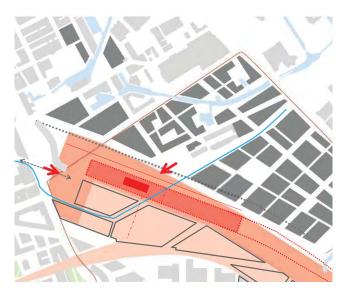
Station

Integration of the HS2 and existing **Piccadilly Stations could create a** world class intermodal transport facility and architectural statement befitting of Manchester.

This part of the study looks to create an aspirational brief for the City Council to use in discussion with HS2 and other partners. It should be understood that the information and designs contained in this section are not the work of HS2 Ltd or Network Rail but rather the City's exploration into the potential of a new integrated station.

The proposals described here are based on:

- Work carried out in conjunction with Arup Associates rail engineers, Transport for Greater Manchester, HS2 Ltd, Network Rail, KPMG and Manchester City Council.
- Site analysis and Bennetts Associates' existing knowledge of the area from the Mayfield scheme
- Basic understanding of the requirements for HS2 from information available in the public domain and other sources
- Research into the modern transport hub (refer section entitled 'Station Precedent)
- The Team's knowledge of the rail transport hub typology from other commissions such as Crossrail



The new HS2 station is tucked behind Gateway House. It has a poor relationship with the city and offers an uninspiring entry point into Manchester. The HS2 platforms have limited connections with the existing station.



Revised Proposal

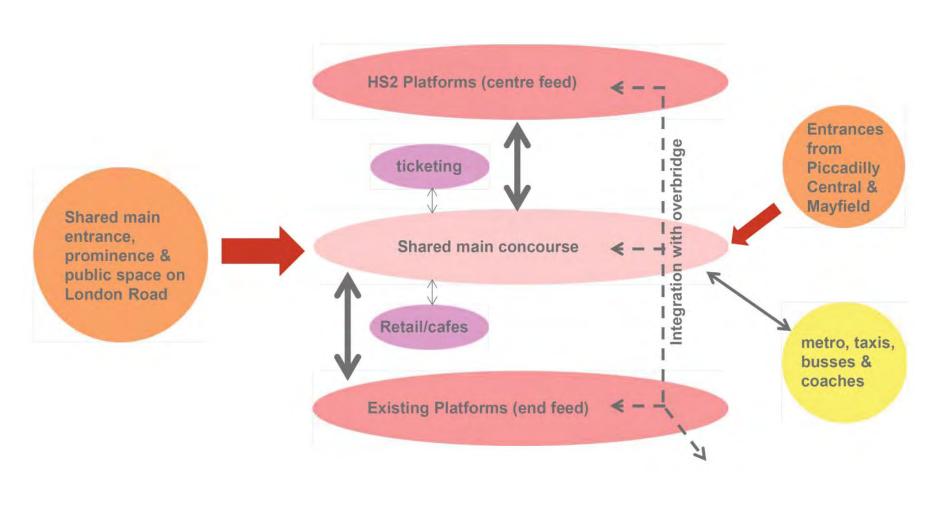
The Station

HS2 Ltd has outlined very early proposals for the siting of the new HS2 station. The proposal is shown above left. The City's response to the proposals is described above and is premised on the following key principles:

- interconnections.
- as close to the centre as possible.

- station and the city.





Organisational diagram

The City believes it is vital that a much more direct connection with Piccadilly and the city centre is created. The proposals therefore envisage that the HS2 platforms are moved west, Gateway House is demolished and in its place a new station plaza befitting Manchester is created. Access to the mid point of the HS2 platforms is from a new concourse shared with the existing station or a new public square created in the Strategic Regeneration Framework to the north.

• The station should be a single, integrated facility and not two separate stations. The organisational diagram opposite aims towards a new shared main concourse, legible circulation to all areas, clear definition of spaces and full integration of all transport

• 4no. new 400m long platform faces for HS2 with passenger feed

• Multiple entrances from the City Centre, Mayfield and Piccadilly Central which are all prominent, welcoming and legibly linked. • Demolition of the 'Lazy S' building to the north of the existing entrance to connect the expanded station much more directly to the city centre, enhance the presence of the station on London Road and transform the whole experience of arriving into the city. • Further to the above, bring the entrance down to street level and place a major new public space as the threshold between the

• A distinctive station for HS2 which presents a grand new entrance and compliments the existing listed train shed.

• Creation of an attractive and active frontage to the proposed Boulevard that adds to the potential of this new city landmark.

(continues on next page)





Option one:

St Pancras International Station



Beijing South

Beijing South

St Pancras International Station

- Integration of new and existing concourses and routes within the station such that the experience of using the station is simple, legible and inspiring.
- Direct connections to expanded Metrolink concourse and relocated bus, taxi, parking and cycle provision.
- Maximisation of retail and food/beverage accommodation to create a destination offer akin to St Pancras and other major modern termini.
- Incorporation of a new 12 bay coach station and a distinctive retail/ market/cultural destination under the new and existing railway viaducts .

Integration of Metrolink

To accommodate the expansion of Piccadilly, HS2, tram train and the proposed developments in the area, new Metrolink platforms are required at Piccadilly to allow more passengers to use the station. The works will improve the passenger experience when using this Metrolink stop and allow better integration with the proposed station expansion. A number of options have been considered and two options are currently being taken forward. The options can be seen in the diagrams on the following pages and are described below.

This option retains Metrolink in the same area of the station as the existing stop. The existing platforms will be removed and replaced with two larger island platforms, which will double the Metrolink capacity, compared to the existing stop. There will be four tracks through the station. The area around the platforms will be opened up, with new mezzanine walkways installed to connect Metrolink to the main station and surrounding areas.

Advantages:

- Improved access to Metrolink platforms.
- Increased capacity.
- Metrolink stop in close proximity to the Mayfield site.

Disadvantages:

- Closure of London Road, adjacent to the Metrolink stop.
- Removal of Grade 2 listed station façade adjacent to London Road.
- Significant long term disruption during construction to Metrolink users.
- Existing drop-off and taxi waiting area to be removed.
- Flow through station impeded, as the Metrolink platform and tracks would act as a barrier to movement between Mayfield and the station / City Centre.
- Potentially significant structural alterations / removal and replacement required to the Network Rail station supporting columns.

Option two:

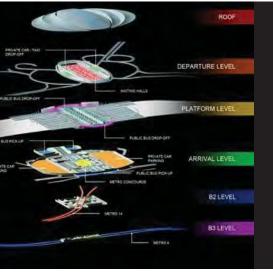
This option would involve constructing a new Metrolink stop beneath the proposed HS2 platforms. The existing Metrolink stop would then be removed. Two large island platforms and four tracks would be installed, doubling the current Metrolink capacity. Access to the Metrolink stop would be gained from the HS2 station mezzanine, which also serves HS2 and the mainline station. The scheme takes advantage of the removal of Gateway House.

Advantages:

- Increased capacity.
- HS2.
- and Metrolink users.
- benficial use.

Disadvantages:

- the inclusion of Metrolink.



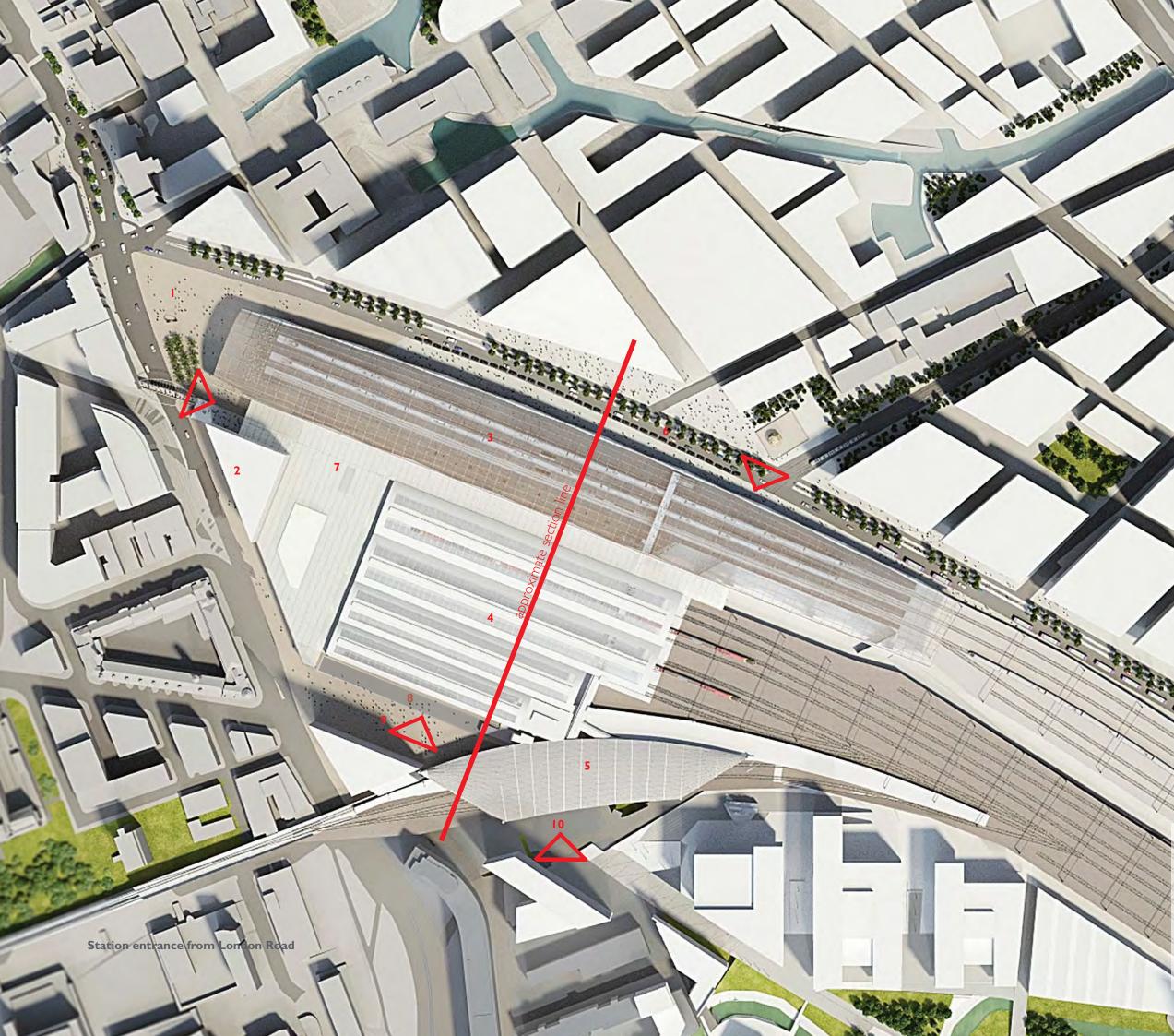
• Improved access to Metrolink platforms, particularly for users of

• The Metrolink stop is in close proximity to the Regional Centre and the Strategic Regeneration Framework development zone. • This option can be constructed at the same time as the HS2 platforms and minimises the construction impact on the station

• The impact on London Road is similar to the existing condition. • The area of the present Metrolink stop can be brought into

• Wider area of disruption during construction, although the majority of this disruption will be required for HS2 regardless of

Tunnelling works would be required below the new plaza.



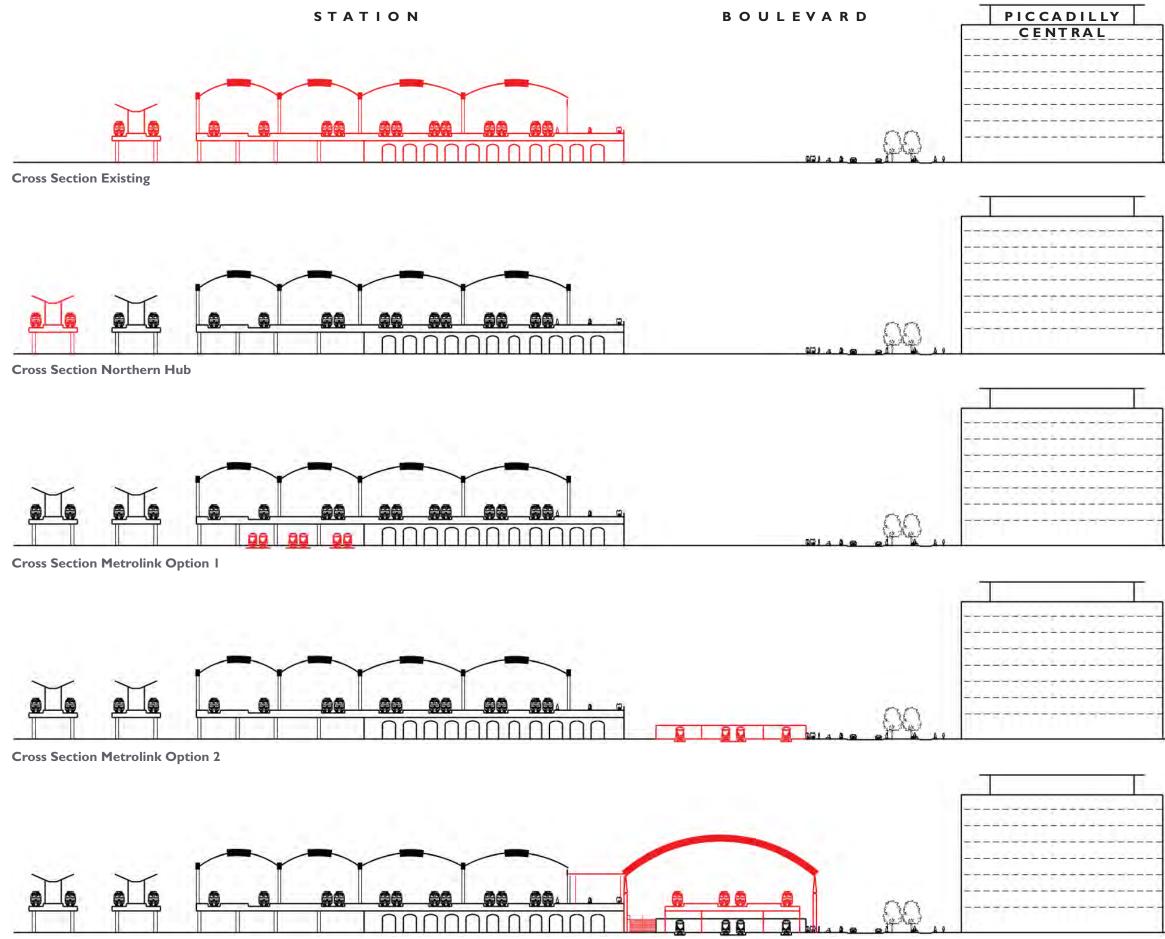
5

7

- TARKS STREET, Key New Civic Arrival Space
- 3 HS2
- Listed train sheds 4

18 M Horse

- Northern Hub
- 6 Boulevard
- Redeveloped shared concourses
- 8 New vertical circulation
- Plaza to south 9
- **10** New entrance from Mayfield



Cross Section Metrolink HS2

| - | | _ | | | - | - |
|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - |
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The majority of the existing station is unaffected with only small areas of demolition required

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| 33222 | 20 |
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| | |

orthern Hub platforms, 15 nd 16, will come online in)|8.

| 1.1 | | |
|-----|----|-------------------------------|
| | _ | Metrolink Option I redevelops |
| | | the existing Metrolink stop |
| 3 | 27 | below the existing rail |
| | | platforms |
| | | |

| | | | 1 | | | |
|---|---|---|---|---|---|---|
| 1 | 1 | - | _ | _ | _ | |
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Metrolink Option 2 develops a new Metrolink stop north of the existing station and below the new HS2 platforms.

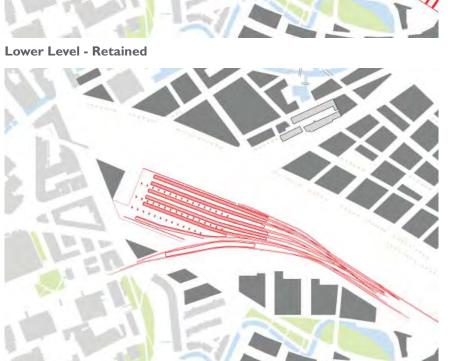
The HS2 platforms and station enclosure are constructed and a shared concourse is created which integrates classic rail, HS2, Metrolink and the station entrances.

The majority of the existing station is unaffected with only small areas of demolition required

Northern Hub platforms, 15 and 16, will come online in 2018. Network Rail are presently undertaking a public consultation exercise on the Northern Hub works. The City and its partners are responding in detail to the consultation with a list of criteria which they feel must be met to maximise the regeneration benefits to the area around the station.

Metrolink Option 1 redevelops the existing Metrolink stop below the existing rail platforms



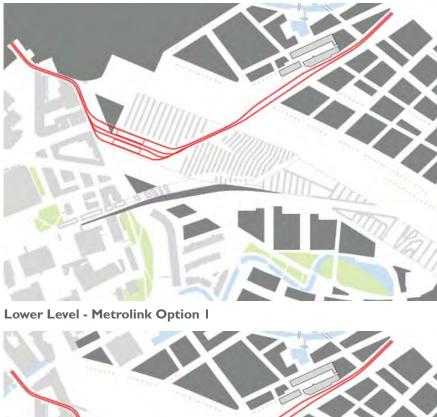


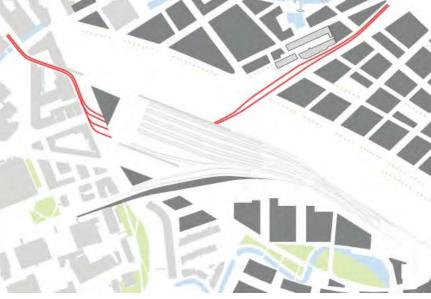
Upper Level - Retained

Lower Level - Northern Hub



Upper Level - Northern Hub





Upper Level - Metrolink Option I

Metrolink Option 2 develops a new Metrolink stop north of the existing station and below the new HS2 platforms.

The HS2 platforms and station enclosure are constructed and a shared concourse is created which integrates classic rail, HS2, Metrolink and the station entrances.

A 12 bay coach station is built below the HS2 platforms and is linked to the new shared concourse. Access to the coach station is from the Boulevard.

The existing overbridge is to be extended as part of the Northern Hub works and provision for the addition of an new station entrance from Mayfield is being made. The overbridge would also extend to the north giving access to HS2 and Metrolink Option 2.



Lower Level - 12 Bay Coach Station



Upper Level - Overbridge



Lower Level - Metrolink Option 2



Upper Level - Metrolink Option 2

Upper Level - HS2



A new civic arrival plaza is formed outside the station at the junction of Piccadilly and the Boulevard

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The combined entrance from the Plaza with HS2 platforms on the left and classic rail concourse up to the right

ALL PROPERTY AND







Looking toward the entrance along the shared concourse

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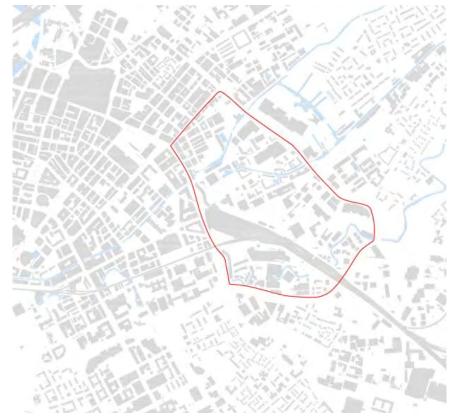


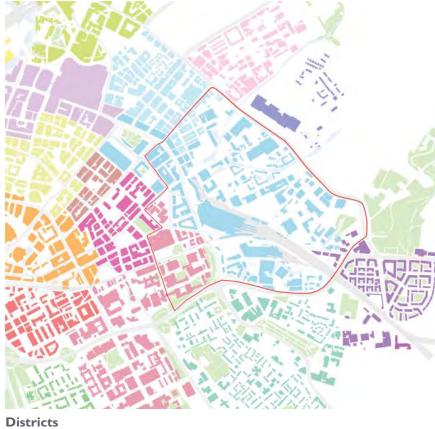
- Key
 Mayfield
 North Campus and The Corridor
 Piccadilly Station
 Landmark buildings
 Piccadilly North
 East Village
 New Islington
 Piccadilly Central
 New public park
 London Road Fire Station

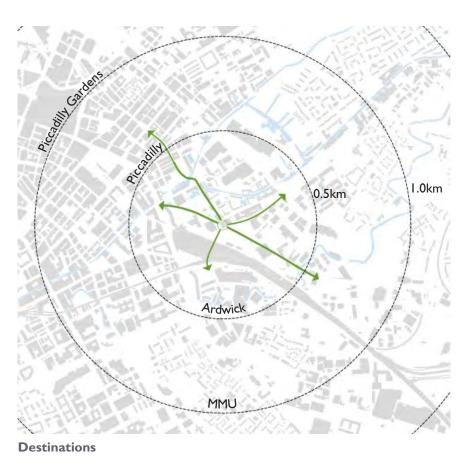
Background

The proposals included in this report are predicated on an analysis of the existing urban context. The output of this analysis is illustrated in the following pages.

Urban Analysis: the City



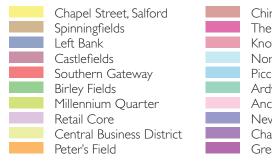




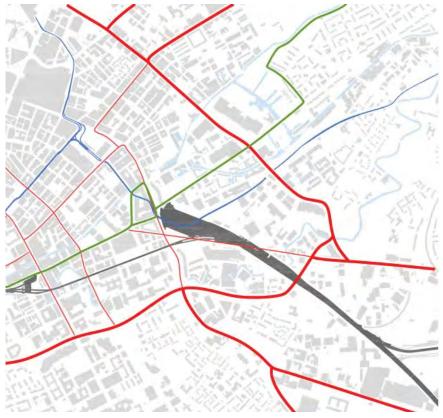
City Grain







Chinatown The Village Knowledge Quarter Northern Quarter Piccadilly Gateway Ardwick Ancoats Urban Village New Islington Chancellor Place Great Universal Square











- Key Chancellor Place

- Chancellor Place
 Central Spine
 Spinningfields
 The Co-operative
 Piccadilly Place
 Inacity Tower

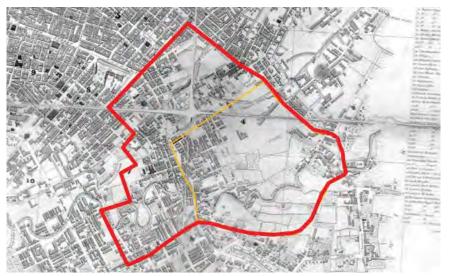
Green Space, Hard Space and Water Bodies

Key

- River Irwell
 River Medlock
 Rochdale Canal
- 4 Ashton Canal



Urban Analysis: Site History



1824

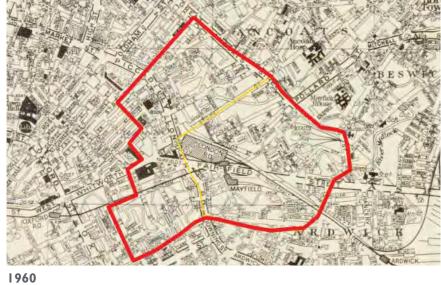








1904 (Housing Survey)





Urban Analysis: Site Photographs



Rochdale Canal Basin



The Metrolink tunnel at Great Ancoats Street



Existing mill buildings to be retained

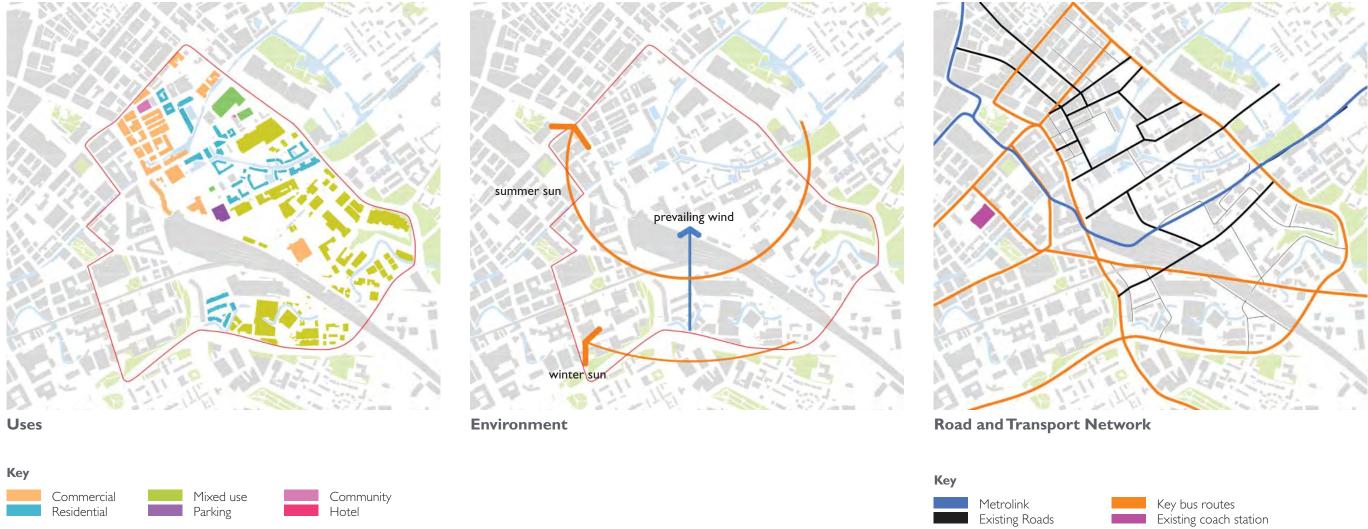


River Medlock concealed in an area of light industrial development



Existing rail viaducts and under developed land

Urban Analysis: Site Factors



Evaluation





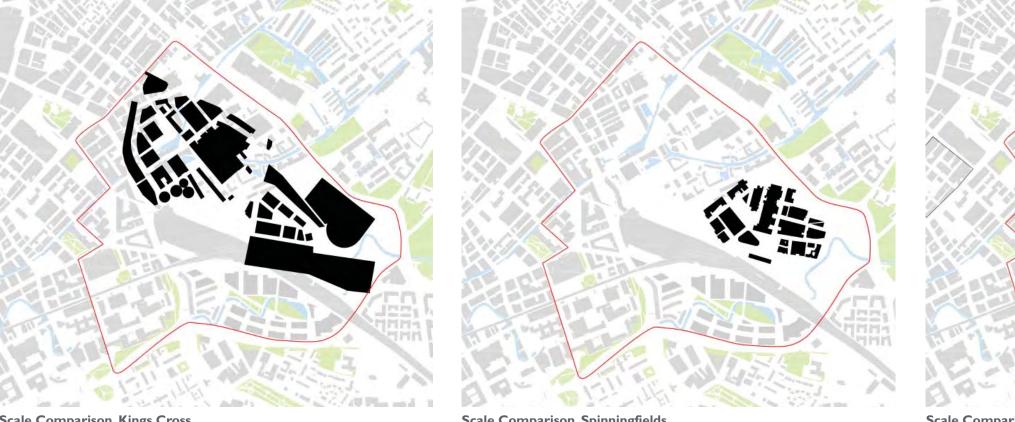


Grain - Arterial

Grain - Radial

Grain - Implied

Evaluation



Scale Comparison, Kings Cross

Scale Comparison, Spinningfields

Scale Comparison, Historic Manchester Grid



Station Precedents

The modern rail transport hub exhibits the following qualities that the Manchester HS2 station should aspire to:

Regeneration catalyst and focus

High architectural quality

- distinctive identity
- akin to airport design
- echoing Victorian splendour
- generous spaces, legible circulation & use of natural light

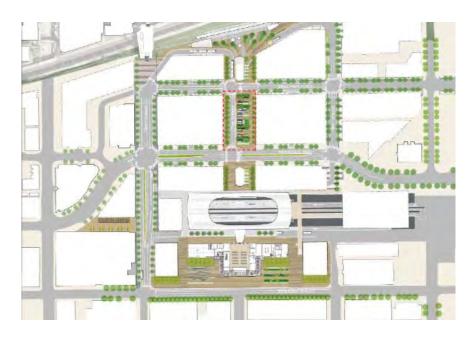
Mix of uses and facilities

- extensive retail, bars, restaurants, leisure, markets
- hotels, conferencing, events

Intermodal connections

- close collocation and/or layering of buses, taxis, light rail, underground, coaches, bicycles
- generous parking



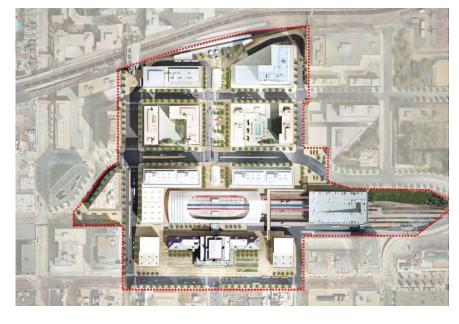






realm. The finished redevelopment will provide:

- gateway to Denver
- A relocated light rail system adjacent to mainline rail services
- between the light rail and the historic station
- movements around the station
- Several new public spaces connecting the various station components





- The redevelopment aims to create a new multimodal transport district and a focal point of activity with a well thought-out public
- A redeveloped station that restores its historic prominence as a
- 8 rail tracks designed to handle 10,000 people an hour
- An expanded regional and local bus facility located underground
- A reconfigured road network that prioritises pedestrian



Shared by four rail companies with mainline and underground services, Osaka station receives 2.5 million commuters each day and is one of the busiest stations in the world. Construction is nearly complete on four new station towers that will transform the city skyline. The quantum of development totals 556,700sqm and includes offices, apartments, hotel rooms, restaurants, 180 shops, 80 food outlets and 8 new public plazas. It is also home to uses as diverse as doctor's surgeries, a wedding hall, a gymnasium and a









Rail City and Europaallee, Zurich

Formerly renovated from a terminus into a through station, Zurich Hauptbahnhof is one of the largest covered spaces in Europe at over 55,000sqm. Events take place year round including open air cinema, markets, skating, beach volleyball and concerts. Beneath the concourse one of the largest shopping centres in Switzerland is home to over 200 shops and businesses. It benefits from being associated with transport as this allows shops to be open 7 days a week creating a bustling atmosphere even while the streets of Zurich are empty. The area around the station is undergoing regeneration. Titled "Europaallee", the masterplan will create a new mixed-use inner city district and will generate approximately 6000 new jobs. The complete development will provide:

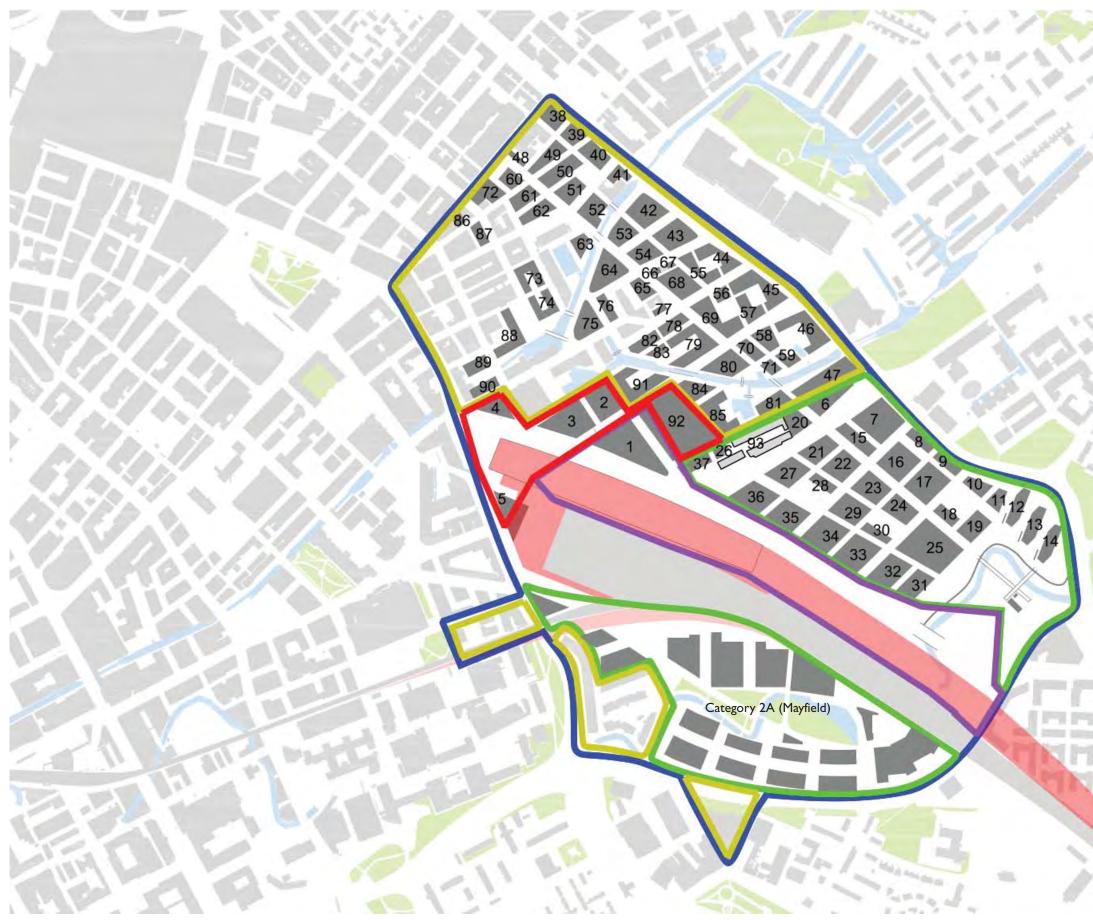
- 70,000sqm of office space
- 10,000sqm of retail space
- 40,00sqm for educational use
- 8,000sqm of residential property

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Area Schedule

The area schedule that follows references the development plots numbered on the diagram opposite. The schedules are a numeric representation of the proposals contained in this report. They are indicative in nature since the eventual mix and quantum of development will vary from the proposals.



The plots referred to in the following schedules are indicated on the plan above (refer to separate Mayfield report for detail of this area)



HS2 Manchester Piccadilly - Strategic Regeneration Framework (Draft)

Bennetts Associates Architects

August 2013

SUMMARY

Refer to drawings 1302(SK)0022 + 1302(SK)0020

By Category

| | Ground Floor GEA Area m ² | Total Upper Floor GEA Area m ² | Total GEA Area m ² | Notes |
|----------------------------------|--|---|----------------------------------|--|
| Category IA | 4,800 | 43,200 | 48,000 | Not including station and infrastructure |
| Category IB | 14,900 | 155,300 | 170,200 | |
| Category 2A (Mayfield) | | | 260,677 | |
| Category 2B (Piccadilly Central) | 57,300 | 445,669 | 502,968 | |
| Category 3 | 62,930 | 295,620 | 358,550 | New development only |
| TOTAL | 139,930 | 939,789 | I,340,395 | |

By Type (total for all categories)

| | Total GEA Area m ² | Total GEA Area m2 at April 2013 | Notes | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms | % of overall mix |
|------------------|----------------------------------|---------------------------------------|--|-----------------------------------|-------------------------------|----------------------|---------------------|
| Commercial | 624,245 | 700,305 | | | | | 47 |
| Residential | 402,800 | 426,600 | | | 4,490 | | 30 |
| Retail / Leisure | 49,896 | | Retail / Leisure is assumed to be 50% of the ground floor. The remaining 50% is balance /servicing space for the floors above. (Total GEA 98,492m ²) | | | | 4 |
| Balance | 49,896 | 65,941 | | | | | 4 |
| Hotel | 86,690 | 101,290 | | | | 1,089 | 6 |
| Community Use | 23,168 | 14,000 | | | | | 2 |
| Parking | 103,700 | 78,800 | | 4,857 | | | 8 |
| TOTAL | 1,340,395 | | | 4,857 | 4,490 | 1,089 | 100 |
| | 14,422,650 | sqft | | - | | | |

The areas should be treated as indicative only. Areas should be checked and verified by a qualified surveyor before being used for valuation or feasibility purposes.

Buildings with a footprint of above 1,000sqm have been rounded to the nearest 100sqm.

Buildings with a footprint between 500 and 1,000sqm have been rounded to the nearest 50sqm

Buildings with a footprint less than 500sqm have been rounded to the nearest 25sqm

Buildings with a footprint above 2,000sqm with a deep floor plate have an atrium, calculated at 15% of the footprint.

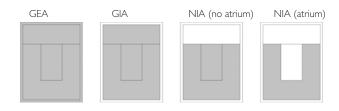
For the purposes of the calculations no basements have been assumed. The areas shown above are for guidance

GIA is 97.5% of GEA

NIA is 75% of GIA for Retail / Leisure, Residential, Hotel and Community NIA is 80% of GIA for Commercial

Parking spaces are calculated at one space for every 30m² of GEA New homes are calculated at one home for every 60m² of NIA

Hotel rooms are calculated at one room for every 80m² of GEA



218,200

Category IA

| Г | | | | Ground | d Floor | | | | | | Upp | er Floors | | | | | | Total | | | | |
|---|-------|-------------------------------|------------------|------------------------------|------------------------------|------------------------------|------------|------------------------------|------------------------------|---|--------|---|-------------------------------|--------|------------------------------------|------------------------------------|---------------------|---------------------|---------------------|-----------------------------------|-------------------------------|----------------------|
| | Block | Total Number of Storeys | Use | Area m ² (GEA) | Area m ² (GIA) | Area m ² (NIA) | Use | Area m ² (GEA) | Area m ² (GIA) | Typical Floorplate m ² (NIA) | Atrium | Typical Atrium Floorplate m ² (NIA) | Storeys Above Ground Floor | | Total Upper Floor Area (GIA) | Total Upper Floor Area (NIA) | Total Area (GEA) | Total Area (GIA) | Total Area (NIA) | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms |
| | - | 10 | Retail / Leisure | 4,800 | 4,680 | 3,510 | Commercial | 4,800 | 4,680 | | Yes | 3,182 | 9 | 43,200 | 42,120 | 28,642 | 48,000 | 46,800 | 32,152 | | | |
| Т | OTAL | | | 4,800 | 4,680 | 3,510 | | | | | | | | 43,200 | 42,120 | 28,642 | 48,000 | 46,800 | 32,152 | 0 | 0 | 0 |

Category IB

| | | | Ground | d Floor | | | | | | Upj | per Floors | | | | | | Total | | | | |
|-------|-------------------------------|------------------|------------------------------|------------------------------|------------------------------|------------|------------------------------|------------------------------|---|--------|---|-------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|---------------------|---------------------|-----------------------------------|-------------------------------|----------------------|
| Block | Total Number of Storeys | Use | Area m ² (GEA) | Area m ² (GIA) | Area m ² (NIA) | Use | Area m ² (GEA) | Area m ² (GIA) | Typical Floorplate m ² (NIA) | Atrium | Typical Atrium Floorplate m ² (NIA) | Storeys Above Ground Floor | Total Upper Floor Area (GEA) | Total Upper Floor Area (GIA) | Total Upper Floor Area (NIA) | Total Area (GEA) | Total Area (GIA) | Total Area (NIA) | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms |
| 2 | 15 | Retail / Leisure | 2,000 | 1,950 | 1,463 | Commercial | 2,000 | 1,950 | | Yes | 1,326 | 14 | 28,000 | 27,300 | 18,564 | 30,000 | 29,250 | 20,027 | | | |
| 3 | 15 | Retail / Leisure | 3,000 | 2,925 | 2,194 | Hotel | 3,000 | 2,925 | 2,194 | No | | 14 | 42,000 | 40,950 | 30,713 | 45,000 | 43,875 | 32,906 | | | 525 |
| 4 | 20 | Retail / Leisure | 900 | 878 | 658 | Hotel | 900 | 878 | 658 | No | | 19 | 17,100 | I 6,673 | 12,504 | 18,000 | 17,550 | 13,163 | | | 214 |
| 5 | 12 | Retail / Leisure | 1,300 | 1,268 | 951 | Commercial | 1,300 | 1,268 | 1,014 | No | | 11 | 14,300 | 13,943 | 11,154 | 15,600 | 15,210 | 12,105 | | | |
| 92 | 8 | Parking | 7,700 | 7,508 | - | Parking | 7,700 | 7,508 | - | No | | 7 | 53,900 | 52,553 | - | 61,600 | 60,060 | - | 2,053 | | |
| TOTAL | | | 14,900 | 14,528 | 5,265 | | | • | | | | | 155,300 | 151,418 | 72,935 | 170,200 | 165,945 | 78,200 | 2,053 | 0 | 739 |

The areas should be treated as indicative only. Areas should be checked and verified by a qualified surveyor before being used for valuation or feasibility purposes.

Category IB

% of overall

mix

100

Total GEA

Area m²

42.300 0 7,200 59,100 0 61,600 170,200

The areas should be treated as indicative only. Areas should be checked and verified by a qualified surveyor befor Buildings with a footprint of above 1,000sqm have been rounded to the nearest 100sqm. Buildings with a footprint between 500 and 1,000sqm have been rounded to the nearest 20sqm Buildings with a footprint less than 500sqm have been rounded to the nearest 25sqm Buildings with a footprint above 2,000sqm with a deep floor plate have an atrium, calculated at 15% of the NIA. For the purposes of the calculations no basements have been assumed. The areas shown above are for guidance

GIA is 97.5% of GEA NIA is 75% of GIA for Retail / Leisure, Residential, Hotel and Community

NIA is 80% of GIA for Commercial Parking spaces are calculated at one space for every 30m² of GEA

New homes are calculated at one home for every 60m² of NIA

Hotel rooms are calculated at one room for every 80m² of GEA

By Type (Category I)

| | Cate | gory IA |
|------------------|---------------------|------------------|
| | Total GEA | o/ (|
| | Area m ² | % of overall mix |
| Commercial | 43,200 | 90 |
| Residential | 0 | 0 |
| Retail / Leisure | 4,800 | 10 |
| Hotel | 0 | 0 |
| Community Use | 0 | 0 |
| Parking | 0 | 0 |
| TOTAL | 48,000 | 100 |

| Category | / IA + IB |
|---------------------|--------------|
| Total GEA | % of overall |
| Area m ² | mix |
| 85,500 | 39 |
| 0 | 0 |
| 12,000 | 5 |
| 59,100 | 27 |
| 0 | 0 |
| 61,600 | 28 |
| 218,200 | 100 |

HS2 Manchester Piccadilly - Strategic Regeneration Framework (Draft)

Bennetts Associates Architects

August 2013

Category 2A (Mayfield)

| Block | Floors | Floorplate m ² | Principal Use | Commercial m ² (GEA) | Residential m ² (GEA) | Retail / Leisure m ² (GEA) | Hotel m ² (GEA) | Parking m ² (GEA) | Community m ² (GEA) | Total m ² | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms |
|----------|--------|---------------------------|---------------|------------------------------------|-------------------------------------|---|-------------------------------|---------------------------------|-----------------------------------|----------------------|-----------------------------------|----------------------------|----------------------|
| MAYFIELD | 4-30 | 1,700-2,600 | Residential | 97,705 | 121,600 | 13,782 | 27,590 | - | - | 260,667 | I,400 | 1,330 | 350 |

For more detail refer to report 1302(RP)001_HS2 SRF

Category 2B (Piccadilly Central)

| | | | Ground | d Floor | | | | | | Up | per Floors | | | | | | Total | | | | |
|-------|-------------------------------|------------------|------------------------------|------------------------------|------------------------------|-------------|------------------------------|------------------------------|---|--------|---|-------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|---------------------|---------------------|-----------------------------------|-------------------------------|----------------------|
| Block | Total Number of Storeys | Use | Area m ² (GEA) | Area m ² (GIA) | Area m ² (NIA) | Use | Area m ² (GEA) | Area m ² (GIA) | Typical Floorplate m ² (NIA) | Atrium | Typical Atrium Floorplate m ² (NIA) | Storeys Above Ground Floor | Total Upper Floor Area (GEA) | Total Upper Floor Area (GIA) | Total Upper Floor Area (NIA) | Total Area (GEA) | Total Area (GIA) | Total Area (NIA) | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms |
| 6 | 5 | Retail / Leisure | 2,100 | 2,048 | 1,536 | Residential | 2,100 | 2,048 | 1,536 | No | | 4 | 8,400 | 8,190 | 6,143 | 10,500 | 10,238 | 7,678 | | 102 | |
| 7 | 9 | Parking | 3,200 | 3,120 | - | Parking | 3,200 | 3,120 | - | No | | 8 | 25,600 | 24,960 | - | 28,800 | 28,080 | - | 960 | | |
| 8 | 12 | Retail / Leisure | 750 | 731 | 548 | Residential | 750 | 731 | 548 | No | | | 8,250 | 8,044 | 6,033 | 9,000 | 8,775 | 6,581 | | 101 | |
| 9 | 14 | Retail / Leisure | 750 | 731 | 548 | Residential | 750 | 731 | 548 | No | | 13 | 9,750 | 9,506 | 7,130 | 10,500 | 10,238 | 7,678 | | 119 | |
| 10 | 15 | Retail / Leisure | 800 | 780 | 585 | Residential | 800 | 780 | 585 | No | | 14 | 11,200 | 10,920 | 8,190 | 12,000 | 11,700 | 8,775 | | 137 | |
| 11 | 15 | Residential | 700 | 683 | 512 | Residential | 700 | 683 | 512 | No | | 14 | 9,800 | 9,555 | 7,166 | 10,500 | 10,238 | 7,678 | | 128 | |
| 12 | 20 | Residential | 1,100 | 1,073 | 804 | Residential | 1,100 | 1,073 | 804 | No | | 19 | 20,900 | 20,378 | 15,283 | 22,000 | 21,450 | 16,088 | | 268 | |
| 13 | 25 | Residential | 1,100 | 1,073 | 804 | Residential | 1,100 | 1,073 | 804 | No | | 24 | 26,400 | 25,740 | 19,305 | 27,500 | 26,813 | 20,109 | | 335 | |
| 14 | 15 | Residential | 1,100 | 1,073 | 804 | Residential | 1,100 | 1,073 | 804 | No | | 14 | 15,400 | 15,015 | 11,261 | 16,500 | 16,088 | 12,066 | | 201 | |
| 15 | 9 | Retail / Leisure | 1,300 | 1,268 | 951 | Commercial | 1,300 | 1,268 | 1,014 | No | | 8 | 10,400 | 10,140 | 8,112 | 11,700 | 11,408 | 9,063 | | | |
| 16 | 9 | Retail / Leisure | 2,400 | 2,340 | 1,755 | Commercial | 2,040 | 1,989 | | Yes | 1,353 | 8 | 16,320 | 15,912 | 10,820 | 18,720 | 18,252 | 12,575 | | | |
| 17 | 9 | Retail / Leisure | 2,700 | 2,633 | 1,974 | Commercial | 2,700 | 2,633 | 2,106 | No | | 8 | 21,600 | 21,060 | 16,848 | 24,300 | 23,693 | 18,822 | | | |
| 18 | 5 | Retail / Leisure | 700 | 683 | 512 | Commercial | 700 | 683 | 546 | No | | 4 | 2,800 | 2,730 | 2,184 | 3,500 | 3,413 | 2,696 | | | |
| 19 | 9 | Retail / Leisure | 1,400 | 1,365 | 1,024 | Commercial | 1,400 | 1,365 | 1,092 | No | | 8 | 11,200 | 10,920 | 8,736 | 12,600 | 12,285 | 9,760 | | | |
| 20 | 5 | Community | 1,300 | 1,268 | 951 | Community | 1,300 | 1,268 | 951 | No | | 4 | 5,200 | 5,070 | 3,803 | 6,500 | 6,338 | 4,753 | | | |
| 21 | 9 | Retail / Leisure | 1,600 | 1,560 | 1,170 | Commercial | 1,600 | 1,560 | 1,248 | No | | 8 | 12,800 | 12,480 | 9,984 | 14,400 | 14,040 | 11,154 | | | |
| 22 | 9 | Retail / Leisure | 1,700 | 1,658 | 1,243 | Commercial | 1,700 | 1,658 | 1,326 | No | | 8 | 13,600 | 13,260 | 10,608 | 15,300 | 14,918 | 11,851 | | | |
| 23 | 9 | Retail / Leisure | 1,800 | 1,755 | 1,316 | Commercial | 1,800 | 1,755 | 1,404 | No | | 8 | 14,400 | 14,040 | 11,232 | 16,200 | 15,795 | 12,548 | | | |
| 24 | 9 | Retail / Leisure | 1,500 | 1,463 | 1,097 | Commercial | 1,500 | 1,463 | 1,170 | No | | 8 | 12,000 | 11,700 | 9,360 | 13,500 | 13,163 | 10,457 | | | |
| 25 | 9 | Retail / Leisure | 4,900 | 4,778 | 3,583 | Commercial | 4,165 | 4,061 | | Yes | 2,761 | 8 | 33,320 | 32,487 | 22,091 | 38,220 | 37,265 | 25,674 | | | |
| 26 | 5 | Community | 380 | 371 | 278 | Community | 380 | 371 | 278 | No | | 4 | 1,520 | 1,482 | 1,112 | 1,900 | 1,853 | 1,389 | | | |
| 27 | 9 | Retail / Leisure | 2,000 | 1,950 | 1,463 | Commercial | 1,700 | 1,658 | | Yes | 1,127 | 8 | 13,600 | 13,260 | 9,017 | 15,600 | 15,210 | 10,479 | | | |
| 28 | 5 | Retail / Leisure | 660 | 644 | 483 | Commercial | 660 | 644 | 515 | No | | 4 | 2,640 | 2,574 | 2,059 | 3,300 | 3,218 | 2,542 | | | |
| 29 | 9 | Retail / Leisure | 1,900 | 1,853 | 1,389 | Commercial | 1,900 | 1,853 | 1,482 | No | | 8 | 15,200 | 14,820 | 11,856 | 17,100 | 16,673 | 13,245 | | | |
| 30 | 5 | Retail / Leisure | 650 | 634 | 475 | Commercial | 650 | 634 | 507 | No | | 4 | 2,600 | 2,535 | 2,028 | 3,250 | 3,169 | 2,503 | | | |
| 31 | 9 | Retail / Leisure | 1,800 | 1,755 | 1,316 | Commercial | 1,800 | 1,755 | 1,404 | No | | 8 | 14,400 | 14,040 | 11,232 | 16,200 | 15,795 | 12,548 | | | |
| 32 | 9 | Retail / Leisure | 2,400 | 2,340 | 1,755 | Commercial | 2,040 | 1,989 | | Yes | 1,353 | 8 | 16,320 | 15,912 | 10,820 | 18,720 | 18,252 | 12,575 | | | |
| 33 | 9 | Retail / Leisure | 2,800 | 2,730 | 2,048 | Commercial | 2,380 | 2,321 | | Yes | 1,578 | 8 | 19,040 | 18,564 | 12,624 | 21,840 | 21,294 | 4,67 | | | |
| 34 | 9 | Retail / Leisure | 3,100 | 3,023 | 2,267 | Commercial | 2,635 | 2,569 | | Yes | 1,747 | 8 | 21,080 | 20,553 | 13,976 | 24,180 | 23,576 | 16,243 | | | |
| 35 | 9 | Retail / Leisure | 2,700 | 2,633 | 1,974 | Commercial | 2,295 | 2,238 | | Yes | 1,522 | 8 | 18,360 | 17,901 | 12,173 | 21,060 | 20,534 | 4, 47 | | | |
| 36 | 9 | Retail / Leisure | 3,300 | 3,218 | 2,413 | Commercial | 2,805 | 2,735 | | Yes | I,860 | 8 | 22,440 | 21,879 | 14,878 | 25,740 | 25,097 | 17,291 | | | |
| 37 | 5 | Community | 1,000 | 975 | 731 | Community | 1,000 | 975 | 731 | No | | 4 | 4,000 | 3,900 | 2,925 | 5,000 | 4,875 | 3,656 | | | |
| 93 | 4 | Community | 1,710 | 1,667 | 1,250 | Community | 1,710 | I,667 | 1,250 | No | | 3 | 5,129 | 5,000 | 3,750 | 6,838 | 6,667 | 5,000 | | | |
| TOTAL | | | 57,300 | 55,867 | 39,560 | | | | | | | | 445,669 | 434,527 | 302,737 | 502,968 | 490,394 | 337,297 | 960 | 1,391 | 0 |

The areas should be treated as indicative only. Areas should be checked and verified by a qualified surveyor before being used for valuation or feasibility purposes. Buildings with a footprint of above 1,000sqm have been rounded to the nearest 100sqm. Buildings with a footprint between 500 and 1,000sqm have been rounded to the nearest 50sqm 1250 Buildings with a footprint less than 500sqm have been rounded to the nearest 25sqm Buildings with a footprint above 2,000sqm with a deep floor plate have an atrium, calculated at 15% of the NIA. For the purposes of the calculations no basements have been assumed. The areas shown above are for guidance

GIA is 97.5% of GEA NIA is 75% of GIA for Retail / Leisure, Residential, Hotel and Community NIA is 80% of GIA for Commercial Parking spaces are calculated at one space for every 30m² of GEA New homes are calculated at one home for every $60m^2$ of NIA Hotel rooms are calculated at one room for every $80m^2$ of GEA

By Type (Category 2)

Category 2A

| | Cate | gory 2A | Category 2B | | | | |
|------------------|---------------------|------------------|---------------------|--------------|--|--|--|
| | Total GEA | % of overall mix | Total GEA | % of overall | | | |
| | Area m ² | % of overall mix | Area m ² | mix | | | |
| Commercial | 97,705 | 37 | 294,120 | 58 | | | |
| Residential | 121,600 | 47 | 4, 00 | 23 | | | |
| Retail / Leisure | 13,782 | 5 | 45,710 | 9 | | | |
| Hotel | 27,590 | 11 | 0 | 0 | | | |
| Community Use | 0 | 0 | 20,238 | 4 | | | |
| Parking | 0 | 0 | 28,800 | 6 | | | |
| TOTAL | 260,677 | 100 | 502,968 | 100 | | | |

| Category 2A + 2B | | | | | | |
|---------------------|--------------|--|--|--|--|--|
| Total GEA | % of overall | | | | | |
| Area m ² | mix | | | | | |
| 391,825 | 51 | | | | | |
| 235,700 | 31 | | | | | |
| 59,492 | 8 | | | | | |
| 27,590 | 4 | | | | | |
| 20,238 | 3 | | | | | |
| 28,800 | 4 | | | | | |
| 763,645 | 100 | | | | | |

Category 3

| | | Ground Floor | | | Upper Floors | | | | | | | | | Total | | | | | | | |
|----------|-------------------------------|--------------------------------------|------------------------------|------------------------------|------------------------------|----------------------------|------------------------------|------------------------------|---|-----------|---|-------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------|---------------------|---------------------|-----------------------------------|-------------------------------|----------------------|
| Block | Total Number of Storeys | Use | Area m ² (GEA) | Area m ² (GIA) | Area m ² (NIA) | Use | Area m ² (GEA) | Area m ² (GIA) | Typical Floorplate m ² (NIA) | Atrium | Typical Atrium Floorplate m ² (NIA) | Storeys Above Ground Floor | Total Upper Floor Area (GEA) | Total Upper Floor Area (GIA) | Total Upper Floor Area (NIA) | Total Area (GEA) | Total Area (GIA) | Total Area (NIA) | Total No. of Parking Spaces | Total Residentail Units | Total Hotel Rooms |
| 38 | 6 | Retail / Leisure | 1,100 | 1,073 | 804 | Commercial | 1,100 | 1,073 | 858 | No | | 5 | 5,500 | 5,363 | 4,290 | 6,600 | 6,435 | 5,094 | | | |
| 39 40 | 6 | Retail / Leisure | 850 | 829 | 622 | Commercial | 850 | 829 | 663 | No | | 5 | 4,250 | 4,144 | 3,315 | 5,100 | 4,973 | 3,937 | | | |
| 40 | 6 | Retail / Leisure Retail / Leisure | 1,200 600 | 1,170 585 | 878 439 | Commercial Commercial | 600 | 1,170 585 | 936 468 | No No | | 5 | 6,000 3,000 | 5,850 2,925 | 4,680 2,340 | 7,200 3,600 | 7,020 | 5,558 2,779 | | | |
| 42 | 7 | Retail / Leisure | 2,100 | 2,048 | 1,536 | Commercial | 1,785 | 1,740 | 001 | Yes | 1,183 | 6 | 10,710 | 10,442 | 7,101 | 12,810 | 12,490 | 8,636 | | | |
| 43 | 7 | Retail / Leisure | 2,100 | 2,048 | 1,536 | Commercial | 1,785 | 1,740 | | Yes | 1,183 | 6 | 10,710 | 10,442 | 7,101 | 12,810 | 12,490 | 8,636 | | | |
| 44 | 7 | Retail / Leisure | 1,400 | 1,365 | 1,024 | Commercial | 1,400 | 1,365 | 1,092 | No | | 6 | 8,400 | 8,190 | 6,552 | 9,800 | 9,555 | 7,576 | | | |
| 45 | 5 | Residential | 2,300 | 2,243 | 1,682 | Residentail | 2,300 | 2,243 | 1,682 | No | | 4 | 9,200 | 8,970 | 6,728 | 11,500 | 11,213 | 8,409 | | 140 | |
| 46 | 5 | Residential | 2,200 | 2,145 | 1,609 | Residential | 2,200 | 2,145 | 1,609 | No | | 4 | 8,800 | 8,580 | 6,435 | 11,000 | 10,725 | 8,044 | | 67 | |
| 47 | 5 | Residential | 2,300 | 2,243 | 1,682 | Residential | 2,300 | 2,243 | 1,682 | No | | 4 | 9,200 | 8,970 | 6,728 | 11,500 | 11,213 | 8,409 | | 70 | I |
| 48 | 6 | Community | 280 | 273 | 205 | Community | 280 | 273 | 205 | No | | 5 | 1,400 | 1,365 | 1,024 | 1,680 | 1,638 | 1,229 | | | I |
| 49 | 6 | Retail / Leisure | 1,200 | 1,170 | 878 | Commercial | 1,200 | 1,170 | 936 | No | | 5 | 6,000 | 5,850 | 4,680 | 7,200 | 7,020 | 5,558 | | | |
| 50 51 | 6 | Retail / Leisure Retail / Leisure | 1,600 | 1,560 | 1,170 878 | Commercial | 1,600 | 1,560 | 1,248 936 | No No | | 5 | 8,000 6,000 | 7,800 5,850 | 6,240 4,680 | 9,600 7,200 | 9,360 7,020 | 7,410 5,558 | | | |
| 51 | 6 | Retail / Leisure Retail / Leisure | 1,200 | 1,170 | 878 | Commercial Commercial | 1,200 | 1,170 | 1,092 | No | <u> </u> | 5 | 7,000 | 6,825 | 4,680 | 8,400 | 8,190 | 6,484 | | <u> </u> | |
| 53 | 7 | Retail / Leisure | 1,400 | 1,365 | 951 | Commercial | 1,400 | 1,365 | 1,072 | No | <u> </u> | 6 | 7,000 | 7,605 | 6.084 | 9,100 | 8.873 | 7,035 | | | |
| 54 | 7 | Retail / Leisure | 1,200 | 1,170 | 878 | Commercial | 1,200 | 1,170 | 936 | No | 1 | 6 | 7,200 | 7,020 | 5,616 | 8,400 | 8,190 | 6,494 | | 1 | |
| 55 | 7 | Retail / Leisure | 1,100 | 1,073 | 804 | Commercial | 1,100 | 1,073 | 858 | No | | 6 | 6,600 | 6,435 | 5,148 | 7,700 | 7,508 | 5,952 | | | |
| 56 | 5 | Residential | 500 | 488 | 366 | Residentail | 500 | 488 | 366 | No | | 4 | 2,000 | 1,950 | 1,463 | 2,500 | 2,438 | 1,828 | | 30 | |
| 57 | 5 | Residential | 1,100 | 1,073 | 804 | Residentail | 1,100 | 1,073 | 804 | No | | 4 | 4,400 | 4,290 | 3,218 | 5,500 | 5,363 | 4,022 | | 67 | |
| 58 | 5 | Residential | 1,000 | 975 | 731 | Residential | 1,000 | 975 | 731 | No | | 4 | 4,000 | 3,900 | 2,925 | 5,000 | 4,875 | 3,656 | | 30 | |
| 59 | 5 | Residential | 500 | 488 | 366 | Residential | 500 | 488 | 366 | No | | 4 | 2,000 | 1,950 | 1,463 | 2,500 | 2,438 | 1,828 | | 15 | L |
| 60 | 6 | Retail / Leisure | 750 | 731 | 548 | Commercial | 750 | 731 | 585 | No | | 5 | 3,750 | 3,656 | 2,925 | 4,500 | 4,388 | 3,473 | | | L |
| 61 | 6 | Retail / Leisure | 1,000 | 975 | 731 | Commercial | 1,000 | 975 | 780 | No | | 5 | 5,000 | 4,875 | 3,900 | 6,000 | 5,850 | 4,631 | | | I |
| 62 | 6 | Retail / Leisure | 1,100 700 | 1,073 683 | 804 512 | Commercial | 1,100 | 1,073 683 | 858 | No | | 5 | 5,500 3,500 | 5,363 3,413 | 4,290 | 6,600 4,200 | 6,435 4,095 | 5,094 3,071 | | EI | |
| 63 64 | 6 | Residential Retail / Leisure | 2,200 | 2,145 | 1,609 | Residentail Commercial | 700 2,200 | 2,145 | 512 | No Yes | 1.367 | 5 | 3,500 | 3,413 | 6,837 | 4,200 | 4,095 | 3,071 8,446 | | 51 | |
| 65 | 6 | Residential | 800 | 780 | 585 | Residentail | 800 | 780 | 585 | No | 1,507 | 5 | 4.000 | 3,900 | 2,925 | 4,800 | 4.680 | 3,510 | | 59 | |
| 66 | 5 | Community | 125 | 122 | 91 | Community | 125 | 122 | 91 | No | | 4 | 500 | 488 | 366 | 625 | 609 | 457 | | 57 | |
| 67 | 5 | Community | 125 | 122 | 91 | Community | 125 | 122 | 91 | No | 1 | 4 | 500 | 488 | 366 | 625 | 609 | 457 | | 1 | |
| 68 | 7 | Parking | 1,900 | 1,853 | - | Parking | 1,900 | 1,853 | - | No | | 6 | ,400 | 11,115 | - | 13,300 | 12,968 | - | 443 | | |
| 69 | 5 | Residential | 2,150 | 2,096 | 1,572 | Residentail | 2,150 | 2,096 | 1,572 | No | | 4 | 8,600 | 8,385 | 6,289 | 10,750 | 10,481 | 7,861 | | 131 | |
| 70 | 5 | Residential | 800 | 780 | 585 | Residential | 800 | 780 | 585 | No | | 4 | 3,200 | 3,120 | 2,340 | 4,000 | 3,900 | 2,925 | | 24 | |
| 71 | 5 | Residential | 400 | 390 | 293 | Residential | 400 | 390 | 293 | No | | 4 | 1,600 | 1,560 | 1,170 | 2,000 | 1,950 | 1,463 | | 12 | |
| 72 | 6 | Retail / Leisure | 1,300 | 1,268 | 951 | Commercial | 1,300 | 1,268 | 1,014 | No | | 5 | 6,500 | 6,338 | 5,070 | 7,800 | 7,605 | 6,021 | | | L |
| 73 | 6 | Residential | 1,100 | 1,073 | 804 | Residentail | 1,100 | 1,073 | 804 | No | | 5 | 5,500 | 5,363 | 4,022 | 6,600 | 6,435 | 4,826 | | 80 | l |
| 74 | 6 | Residential | 1,100 | 1,073 | 804 | Residentail | 1,100 | 1,073 | 804 | No | <u> </u> | 5 | 5,500 | 5,363 | 4,022 | 6,600 | 6,435 | 4,826 | | 80 | |
| 75 76 | 6 | Residential Residential | 1,700 700 | 1,658 683 | 1,243 512 | Residentail Residentail | 1,700 700 | 683 | 1,243 512 | No No | | 5 | 8,500 3,500 | 8,288 3,413 | 6,216 2,559 | 10,200 | 9,945 4,095 | 7,459 | | 124 51 | |
| 76 | 5 | Residential | 250 | 244 | 183 | Residentail | 250 | 244 | 183 | No | <u> </u> | 4 | 1,000 | 3,413 | 731 | 4,200 | 4,095 | 3,071 914 | | 15 | |
| 78 | 5 | Residential | 800 | 780 | 585 | Residentail | 800 | 780 | 585 | No | <u> </u> | 4 | 3,200 | 3,120 | 2,340 | 4,000 | 3,900 | 2,925 | | 49 | |
| 79 | 5 | Residential | 2,400 | 2,340 | 1,755 | Residentail | 2,400 | 2,340 | 1,755 | No | | 4 | 9,600 | 9,360 | 7,020 | 12,000 | 11,700 | 8,775 | | 146 | |
| 80 | 5 | Residential | 1,900 | 1,853 | 1,389 | Residential | 1,900 | 1,853 | 1,389 | No | İ | 4 | 7,600 | 7,410 | 5,558 | 9,500 | 9,263 | 6,947 | İ | 58 | () |
| 81 | 5 | Residential | 1,300 | 1,268 | 951 | Residential | 1,300 | 1,268 | 951 | No | | 4 | 5,200 | 5,070 | 3,803 | 6,500 | 6,338 | 4,753 | | 40 | |
| 82 | 5 | Residential | 800 | 780 | 585 | Residentail | 800 | 780 | 585 | No | | 4 | 3,200 | 3,120 | 2,340 | 4,000 | 3,900 | 2,925 | | 49 | |
| 83 | 5 | Residential | 400 | 390 | 293 | Residentail | 400 | 390 | 293 | No | | 4 | 1,600 | 1,560 | 1,170 | 2,000 | 1,950 | 1,463 | | 24 | |
| 84 | 5 | Residential | 1,100 | 1,073 | 804 | Residential | 1,100 | 1,073 | 804 | No | | 4 | 4,400 | 4,290 | 3,218 | 5,500 | 5,363 | 4,022 | | 34 | |
| 85 | 5 | Residential | 1,900 | 1,853 | 1,389 | Residential | 1,900 | 1,853 | 1,389 | No | | 4 | 7,600 | 7,410 | 5,558 | 9,500 | 9,263 | 6,947 | | 58 | |
| 86 | 6 | Retail / Leisure | 300 | 293 | 219 | Commercial | 300 | 293 | 234 | No | <u> </u> | 5 | 1,500 | 1,463 | 1,170 | 1,800 | 1,755 | 1,389 | | <u> </u> | |
| 87 88 | 6 | Retail / Leisure Retail / Leisure | 600 | 585 1.463 | 439 | Commercial Commercial | 600 | 585 | 468 | No No | | 5 | 3,000 7,500 | 2,925 7,313 | 2,340 5.850 | 3,600 | 3,510 8,775 | 2,779 6.947 | | | |
| 88 | 6 | Retail / Leisure Retail / Leisure | 400 | 390 | 293 | Commercial | 400 | 390 | 312 | No | | 5 | 2,000 | 1,950 | 5,850 | 9,000 | 8,775 | 6,947 | | | i |
| 90 | 6 | Retail / Leisure | 800 | 780 | 585 | Commercial | 800 | 780 | 624 | No | <u> </u> | 5 | 4.000 | 3,900 | 3,120 | 4,800 | 4,680 | 3,705 | | <u> </u> | |
| 91 | 5 | Residential | 2,000 | 1,950 | 1,463 | Residentail | 2,000 | 1,950 | 1,463 | No | 1 | 4 | 8,000 | 7,800 | 5,850 | 10,000 | 9,750 | 7,313 | | 122 | i |
| TAL | | | 62,930 | 61,357 | 44,628 | 1 | | | | | | ı | 295,620 | 288,230 | 210,749 | 358,550 | 349,586 | 255,377 | 443 | 1,769 | 0 |

The areas should be treated as indicative only. Areas should be checked and verified by a qualified surveyor before being used for valuation or feasibility purposes. Buildings with a footprint of above 1,000sqm have been rounded to the nearest 100sqm. Buildings with a footprint between 500 and 1,000sqm have been rounded to the nearest 50sqm Buildings with a footprint less than 500sqm have been rounded to the nearest 25sqm Buildings with a footprint above 2,000sqm with a deep floor plate have an atrium, calculated at 15% of the NIA. For the purposes of the calculations no basements have been assumed. The areas shown above are for guidance

GIA is 97.5% of GEA NIA is 75% of GIA for Retail / Leisure, Residential, Hotel and Community NIA is 80% of GIA for Commercial Parking spaces are calculated at one space for every 30m² of GEA New homes are calculated at one home for every 60m² of NIA

Hotel rooms are calculated at one room for every 80m² of GEA

By Type (Category 3)

| | Total GEA Area m ² | % of overall mix |
|------------------|----------------------------------|------------------|
| Commercial | 146,920 | 41 |
| Residential | 167,100 | 47 |
| Retail / Leisure | 28,300 | 8 |
| Hotel | 0 | 0 |
| Community Use | 2,930 | 1 |
| Parking | 13,300 | 4 |
| TOTAL | 358,550 | 100 |

