

Transport Assessment

Plot C02, Central Docks, Liverpool Waters
Liverpool

Romal Capital Limited

November 2019

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1.0 INTRODUCTION

Overview

- 1.1 SCP have been appointed by Romal Capital Limited to provide specialist transport planning and engineering advice in support of the proposed development of Plot C02 of the Central Docks Neighbourhood within the Liverpool Waters Masterplan.
- 1.2 The proposed development comprises the construction of 538 apartments along with ancillary ground floor commercial uses and associated parking. Further details of the development proposals are provided in Chapter 4 of this report.
- 1.3 This Transport Assessment (TA) has been prepared to support the planning application and has been developed in accordance with the now superseded Department for Transports (DfT's) March 2007 "Guidance on Transport Assessment" document and the National Planning Practice Guidance (NPPG) "Transport Evidence in Plan Making" document. In addition, the scope of this report is consistent with that of the TA submitted as part of the approved Plot C04 and C06 Central Docks application (Application Reference: 17F/1628), also undertaken by SCP, whereby the specific scope was discussed and agreed with Liverpool City Council (LCC) through preapplication correspondence and meetings.
- 1.4 This report concludes that the proposed development of this site can be accommodated without detriment to the operational capacity or safety of the local highway network and that it can be readily accessed on foot, by bicycle and by local public transport services.

Planning Background

Liverpool Waters

- 1.5 The Liverpool Waters Masterplan Development was granted planning permission in 2013 (LPA Reference: 10O/2424) and is a 60 hectare site which stretches from the Bramley Moore Docks in the north to the Princes Dock in the south. The Masterplan considers this extensive area as 5 phases or neighbourhoods, each comprising mixed use development consisting of primarily residential and commercial uses.
- 1.6 A detailed Transport Assessment was submitted with the Liverpool Waters application which considered the impact of the development on the local highway network and identified a package of highway and public transport improvements required to support the development. These enhancement works are detailed within Schedule 2 of the Decision Notice for the Liverpool waters permission.



- 1.7 The Liverpool Waters masterplan identifies the Central Docks neighbourhood as providing in the region of 3,800 dwellings, 166,000m² of office space, two hotels, a number of restaurants and bars, public parks and a range of parking facilities.
- In addition, the masterplan envisaged that the Central Docks neighbourhood would provide a Cruise Liner terminal located at its southern end, however, this area of the site will accommodate the Isle of Man Ferry Terminal which was granted planning permission in April 2019 (Application Reference: 18F/3231). It should be noted that the traffic impacts of the proposed Isle of Man Ferry Terminal have been assessed in the TA submitted with the application and development traffic can be accommodated without detriment to traffic conditions on the local highway network.
- 1.9 LCC also submitted a full planning application (Application Reference: 17F/2628) for a new Northern Link Road to service development plots within the southern area of Central Docks including C02 and the Isle of Man Ferry Terminal in September 2017, with the application being subsequently granted planning permission in April 2018. The link road will form the main gateway into the Central Docks Neighbourhood and will incorporate a new signalised junction at Waterloo Road.

Plot C02 (Application Site)

- 1.10 A full planning application (Application Reference: 18F/3247) was submitted to Liverpool City Council in December 2018 for 646 apartments on the application site, although this application has since been revised, reducing the number of apartments to 538. This application follows the first planning application within the Central Docks neighbourhood for Plot C04 and C06 (Application Reference: 17F/1628) which was granted planning approval in December 2017. The two developments will sit alongside the new spine road linking the Isle of Man ferry terminal with Waterloo Road and are a catalyst for the Central Docks regeneration project.
- 1.11 The application has received a highway-related consultation response to the previously submitted scheme from both LCC and Merseytravel, as presented in **Appendix A** and summarised below:
- 1.12 LCC have raised concerns regarding the proposed parking provision, noting that it "should not be less than those developments consented within the Central Dock Neighbourhood Area", as well as the cycle parking provision recommending 100% provision. In addition, LCC have requested a £100,000 contribution towards enhancing pedestrian/cycle connectivity and have noted that improvements will be required to the public transport services in the vicinity of the site.
- 1.13 In addition to the above comments from LCC, Merseytravel have requested LCC ensure:



- An assessment of the local highway network is undertaken;
- Demolition/construction works do not impact on Merseytravel Kingsway Tunnel;
- The proposal has adequate access to the public transport network and fund the provision of public transport infrastructure (i.e. bus stops and bus service);
- The developer creates appropriate access for Merseytravel Merseylink dial-a-ride vehicles and all other demand responsive bus services;
- The development provides good quality walking routes, including to the nearest bus stops;
 and,
- The developer implements a full travel plan for the site.
- 1.14 This TA has been prepared to support the planning application and seeks to address the aforementioned comments provided by LCC and Merseytravel.

Structure of This Report

- 1.15 The structure of this report is as follows:-
 - i) Chapter 2 summarises the national and local transport policies, and describes how the proposed development accords with these;
 - ii) Chapter 3 describes in detail the site location, existing uses, local highway network and road safety record;
 - iii) Chapter 4 defines the development proposals including the proposed access, servicing arrangements and car parking;
 - iv) Chapter 5 considers the location of the site with regard to the existing local sustainable transport infrastructure;
 - Chapter 6 presents estimates of the trip generating potential of the site along with a summary of impact of the development on the local highway network;
 - vi) Chapter 7 provides a summary of the transport related Liverpool Waters planning conditions and how the development responds / complies with these; and
 - vii) Chapter 8 provides the summary and conclusions to the above chapters.



2.0 POLICY CONTEXT

Overview

2.1 This Chapter provides a summary of relevant national, regional and local transport policies and provides a brief analysis of how the proposed development will contribute towards their aims and objectives.

National Planning Policy Framework

- 2.2 NPPF is published by the Ministry for Communities and Local Government to set the framework under which local transport, parking and accessibility plans and policies are set. The NPPF has been revised in July 2018 and February 2019.
- 2.3 At the heart of the National Planning Policy Framework is a presumption in favour of sustainable development which for decision-taking means:
 - "approving development proposals that accord with an up-to-date development plan without delay; or
 - where the there are no relevant development plan policies, or the policies which are most important for determining the application are out-of-date, granting permission unless:
 - the application of policies in the Framework that protect areas or assets of particular importance provides a clear reason for refusing the development proposed; or
 - o any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in this Framework taken as a whole."
- 2.4 In assessing sites that may be allocated for development in plans, or specific applications for development, it should be ensured that:
 - a) appropriate opportunities to promote sustainable transport modes can be or have been taken up, given the type of development and its location;
 - b) safe and suitable access to the site can be achieved for all users; and
 - c) any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree.
- 2.5 Importantly, NPPF states that:

'development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe'.



'Within this context, applications for development should:

- a) give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second – so far as possible – to facilitating access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;
- address the needs of people with disabilities and reduced mobility in relation to all modes of transport;
- c) create places that are safe, secure and attractive which minimise the scope for conflicts between pedestrians, cyclists and vehicles, avoid unnecessary street clutter, and respond to local character and design standards;
- d) allow for the efficient delivery of goods, and access by service and emergency vehicles; and
- e) be designed to enable charging of plug-in and other ultra-low emission vehicles in safe, accessible and convenient locations.

All developments that will generate significant amounts of movement should be required to provide a Travel Plan and the application should be supported by a transport statement or assessment so that the likely impacts of the proposal can be assessed. PPG Travel Plans, Transport Assessments and Statements set out the requirements for these documents.

Local Transport Policy – The 3rd Merseyside Local Transport Plan

- 2.6 The 3rd Merseyside Local Transport Plan (LTP3) covers the period from first activation on 1st April 2011 until 2015. It also provides an overview of the long term strategy for 2024 for the improvement of transport within Merseyside.
- 2.7 The existing vision of the Merseyside LTP3 is:

A joint plan for the five Merseyside Local Authorities including Liverpool, Knowsley, Sefton, Wirral and St Helens. The LTP has an overall aim to provide "a city region committed to a low carbon future, which has a transport network and mobility culture that positively contributes to a thriving economy and the health and wellbeing of its citizens and where sustainable travel is the option of choice."

- 2.8 The Merseyside LTP3 has six main goals:
 - Help create the right conditions for sustainable economic growth;
 - Provide and promote a clean, low emission transport system which is resilient to changes to climate and oil availability;



- Ensure the transport system promotes and enables improved health and wellbeing and road safety;
- Ensure equality of travel opportunity for all;
- Ensure the transport network supports the economic success of the city region by efficient movement of people and goods; and
- Maintain assets to a high standard.

Liverpool Unitary Development Plan

- 2.9 The Unitary Development Plan (UDP) is a statutory document that guides development within Liverpool. It was adopted in November 2002.
- 2.10 Under the new planning system, the UDP is a 'saved plan', which means it is a Local Plan Document within the Local Plan framework and will gradually be replaced by the new Local Plan (referred to below).
- 2.11 The UDP aims to reverse the decline in economic activity, investment and employment Liverpool has experienced. The Waterfront, Docks and Hinterland have been designated as a "key area in which policies and programmes designed to generate economic revival will be concentrated".
- 2.12 The UDP also "aims to provide a balanced provision of transport infrastructure which:
 - Provides access to employment, leisure, retail and other facilities for all of the City's residents;
 - Meets the transport needs of people who are economically and socially disadvantaged;
 - Allows for the safe, efficient and easy movements of goods into and throughout the City, in order to help secure the regeneration of the local economy;
 - Protects and enhances the environment through reducing the reliance on the private car;
 - Promotes, in conjunction with the Passenger Transport Authority, investment in the public transport network and associated facilities;
 - Improves facilities for cyclists and pedestrians;
 - Provides a framework for investment in the efficiency of the road system; and,
 - Reduces the availability of car parking facilities which would attract car borne commuters."



Liverpool Local Plan

- 2.13 LCC have prepared a draft Local Plan which will, once adopted, replace the Unitary Development Plan. The Local Plan vision for Liverpool is to become a sustainable, vibrant and distinctive global city at the heart of the City Region by 2033 and provides a long-term spatial vision, strategic priorities and policies for future development in the city over the next 15 to 20 years. A number of strategic priorities have been identified to be delivered by the policies in the Local Plan and include:
 - "Strengthening the city's economy;
 - Creating residential neighbourhoods which contribute to social and economic regeneration and achieve an overall level of housing growth; and,
 - Maximising sustainable accessibility"
- 2.14 To achieve the long-term vision the Local Plan sets out site allocations for residential, employment, retail and other land uses and development management policies that will be used to determine planning applications in the City. The Local Plan also shows where specific policies apply such as District and Local Centres.

Ensuring a Choice of Travel Supplementary Planning Document (SPD)

- 2.15 The Supplementary Planning Document (SPD) has been developed in partnership with the Merseyside Local Authorities and Merseytravel in order to provide consistent guidance to developers on access and transport requirements for new development across the wider Merseyside area. Its overall objectives are:
 - Ensure a reasonable choice of access by all modes of transport to new development;
 - Reduce the environmental impact of travel choices;
 - Improve road safety;
 - Promote healthier lifestyle;
 - Reduce level of traffic growth; and
 - Encourage opportunities to improve the quality of development proposals through the provision of less car parking spaces where appropriate

Summary

2.16 As will be demonstrated later in this report, the proposals adhere to the above national and local transport planning policy requirements.



3.0 EXISTING CONDITIONS

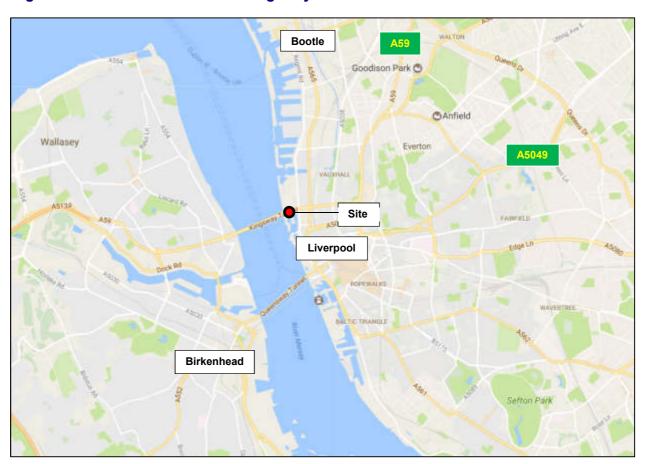
General

3.1 This Chapter provides a detailed description of the location and composition of the site, the local highway network and the road safety record.

Site Location and Composition

3.2 The application site is located approximately 1.3km to the north-west of Liverpool city centre and is part of Waterloo Quay, comprising of derelict dock and scrub land. The location of the site in relation to the wider highway network is shown on **Figure 3.1** below.

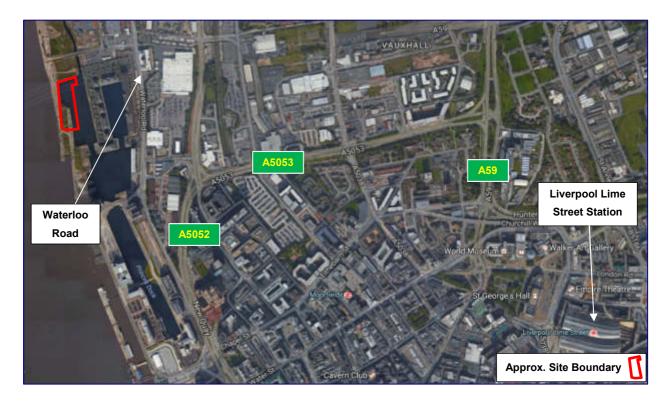
Figure 3.1 – Site Location – Wider Highway Network



3.3 The location of the site in relation to the local highway network is shown in red on **Figure 3.2** below.



Figure 3.2 - Site Location Plan - Local View



3.4 The development site is bound by an area of infill of historic dock to the north, which will be developed as part of the Liverpool Waters Masterplan, and Waterloo Dock to the east. To the south and west, the site is bound by derelict dock and scrub land as well as the river Mersey to the west.

Surrounding Highway Network

Waterloo Road

- 3.5 Waterloo Road is located approximately 220m to the east of the site and is a strategic link connecting the Central Docks to Liverpool city centre. Waterloo Road, which is subject to a 30mph speed limit, turns into Regents Road in the north, leading to Bootle, and to the south provides a link to Princes Dock and the A5052 New Quay via Bath Street.
- 3.6 Within the vicinity of the approved Waterloo Road / Northern Link Road signalised junction, Waterloo Road has a carriageway width of approximately 12m and benefits from regularly spaced street lighting columns and footways of over 2m in width on both sides of the carriageway.



- 3.7 A signal-controlled pedestrian crossing is provided across Waterloo Road, approximately 150m south of the approved Waterloo Road / Northern Link Road signalised junction. There is also a pedestrian refuge located on Waterloo Road, less than 400m south of the approved junction on Waterloo Road.
- 3.8 A bus stop is located approximately 100m north of the approved signalised junction, on Waterloo Road, and there is a City Bike station located around 120m south of the approved junction. Further details of the accessibility of the site by non-car modes of transport are provided in Chapter 5.

A5052 New Quay

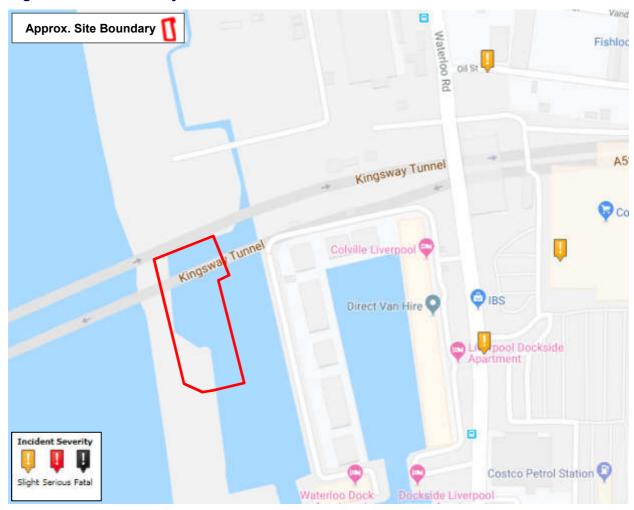
- 3.9 The A5052 New Quay is located approximately 800m south of the development site and is subject to a 30mph speed limit. The A5052 New Quay is an urban A-road running on the western side of Liverpool city centre by the docks.
- 3.10 In a southerly direction the A5052 New Quay turns into the A562 which links Liverpool to Widnes and to the north it links with Great Howard Street, leading to Bootle, and the A5053 which joins to the A59 linking Liverpool to Preston.
- 3.11 The A5052 New Quay carriageway varies in width and benefits from footways of over 2m wide on both sides, dropped kerbs, signalised pedestrian crossings and street lighting.

Personal Injury Accident (PIA) Review

- 3.12 The NPPG 'Transport evidence bases in plan making and decision taking' document states that, "Critical locations on the road network with poor accident records should be identified. This is to determine if the proposed development will exacerbate existing problems or, if proposed, whether highway mitigation works or traffic management measures will help to alleviate the problems".
- 3.13 In order to identify critical locations on the network with a poor accident record, the personal injury accident data for the local area has been obtained from the DfT for the most recently available 5-year period (2014-2018).
- 3.14 The location and severity of any accidents within the study area during this period, are shown in **Figure 3.3** below:-



Figure 3.3 - Road Safety Plan



- 3.15 The analysis shows that two accidents have occurred in the study area during the five-year study period, all of which resulted in 'slight' severity injuries. One 'slight' accident occurred in April 2016 on Oil Street, while the other one occurred in October 2016 approximately 200m to the south of the approved signalised junction. Another 'slight' accident occurred within Costco's car park.
- 3.16 The evidence presented above and illustrated in **Figure 3.3** suggests that the area in the vicinity of the site does not have any recurring highway safety problems that could be affected by the development proposals.



4.0 PROPOSED DEVELOPMENT

General

- 4.1 The development proposals consist of the construction of 538 apartments along with 400.6m² of ground floor commercial uses and associated parking on Plot C02 of the Central Docks Neighbourhood within the Liverpool Waters Masterplan.
- 4.2 The proposed ground floor commercial floor space will be ancillary to the residential development which comprises a mix of 1-bed, 2-bed and 3-bed apartments along with duplexes and penthouses. The proposed site layout plan is contained in **Appendix B**.

Proposed Access Arrangements

- 4.3 Vehicular access to the development will be provided from a priority-controlled access located to the north-west of the site, off the approved new spine road linking Waterloo Road to the planned CO2 and Isle of Man Ferry Terminal. The proposed access has a carriageway width of approximately 6m and operates on a two-way basis.
- Junction visibility from the site access conforms to the visibility requirements set out in the Manual for Streets (MfS) for a 30mph road, providing visibility splays that have an 'x' (minor arm setback distance) of 2.4m and a 'y' (major road visibility) distance of 43m in both directions, as shown on drawing SCP\18299\SK01 Rev D at **Appendix C**.
- 4.5 Pedestrian access will also be provided from the new spine road, as shown on the site layout plans presented in **Appendix B**. Whilst not part of the development proposals, future aspirations for the area include a pedestrian and cycle link between the proposed Isle of Man Ferry Terminal and Princes Parade. As part of the development proposals a pedestrian and cycle link will be provided along the eastern boundary of the site, adjacent to the dock, which will connect to the future link, providing a direct route for pedestrians into the city centre.

Servicing

- 4.6 The access and internal site layout have been designed to accommodate a large refuse vehicle and a 12m rigid vehicle to avoid servicing and deliveries taking place on the approved link road. A turning head is provided at the south-west of the site to allow vehicles to turn around safely.
- 4.7 A swept path analysis (drawing SCP\18299\ATR01 Rev D) of a large refuse vehicle and 12m long rigid delivery vehicle has been undertaken and is presented at **Appendix D**. It demonstrates that both vehicles can turn around at the turning head.



Parking

- 4.8 The car park will provide a total of 165 spaces (including 10 disabled bays) for the residential use which equates to a 31% parking provision. LCC's parking standards are set out in the 'Ensuring a Choice of Travel Supplementary Planning Document' with the car parking standards for apartments in this location being an average of 1 space per dwelling. Whilst it is acknowledged that the proposed provision falls below LCC's standards, this is considered acceptable in this instance for the following reasons:-
 - The overall parking provision approved for Plot C04 and C06 (Application Reference: 17F/1628) was approximately 22%. The parking provision proposed as part of this planning application is therefore higher and fulfils LCC's requirement that the parking provision "should not be less than those developments consented within the Central Dock Neighbourhood Area".
 - As detailed in the following Chapter, the site benefits from good levels of accessibility, being within easy access of Liverpool city centre (less than 2km walk) and associated facilities, amenities and numerous transport links. It should be noted that as the Central Docks development comes forward the accessibility of the site will be further improved;
 - The general thrust of National and Local planning policy is to reduce car borne trips and encourage travel by sustainable modes such as public transport, walking and cycling. In particular, policy advocates locating developments where there is high quality infrastructure and sustainable transport modes can be maximised. The proposed development takes full advantage of this accessible location and, by providing a level of parking below the Council's standards, will help to reduce the reliance on the use of the private car and meet these policy objectives. In addition, measures to promote sustainable travel and minimise car use / parking demand will be promoted in the Travel Plan which is submitted with the application;
 - Any prospective purchaser or tenant of the apartments will be in no doubt as to the level of parking provided at the scheme and will therefore decide whether to take up occupancy accordingly;



- The local highway network is well protected by existing Traffic Regulation Orders (TROs), with extensive parking restrictions provided along Waterloo Road. In addition, it is anticipated that the new access road serving the Isle of Man ferry will also be subject to traffic regulation orders to restrict on-street parking. In the unlikely event that overspill parking does occur from the development, it is clear that the key junctions and critical sections of highway in the vicinity of the site are protected by waiting restrictions, which helps to ensure that parking does not result in any road safety or operational issues;
- The existing car ownership levels of the area have been obtained from the 2011 census data for the ward for which the site is located, as summarised below in the Table below. This demonstrates that car ownership levels in the vicinity of the site are low, which is to be expected given the highly sustainable location of the site and close proximity to the City Centre. Whilst it is accepted that car ownership levels are slightly higher than the proposed parking ratio, the Census data does not differentiate between houses and apartments (just 'households'), so does not reflect the typical trend for much lower car ownership levels in apartments. The proposed car parking provision is therefore considered to be reflective of actual car ownership in the area, particularly for the type of dwellings proposed; and,

Vehicle Availability per Household	Output Area - E05000900
No cars or vans in household	62.7%
1 or more cars or vans in household	37.3%

- The principle of reduced levels of parking in locations within Liverpool of comparable (or in some circumstances worse) levels of accessibility to that of this site is well established in Liverpool.
- 4.9 The proposed car parking provision is therefore regarded as acceptable in this accessible location. It is anticipated that the development is likely to have low car ownership levels.
- 4.10 In addition to the car parking spaces, 280 no. secure cycle parking spaces will be provided, which equates to a 52% parking provision, along with 9 visitor cycle parking hoops for up to 18 bikes, distributed throughout the site. The cycle parking provision is similar to the cycle parking provision approved as part of Plot C04 and C06 Central Docks application (Application Reference: 17F/1628)



5.0 ACCESSIBILITY

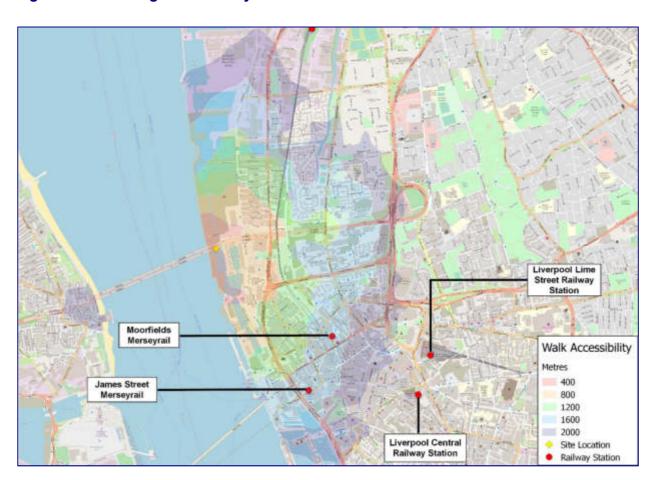
Overview

5.1 This Chapter presents a review of the accessibility of the site by walking, cycling and public transport modes.

Pedestrian Accessibility

- 5.2 The MfS states that walkable neighbourhoods are typically characterised by having a range of facilities within 10 minutes' (up to about 800m) walking distance of residential areas which residents may access comfortably on foot. However, it goes on to state that this is not an upper limit and that walking offers the greatest potential to replace short car trips, particularly those under 2km.
- 5.3 Industry standard GIS TRACC software has been used to assess the accessibility of the development by foot for a 2km walk distance from the site, as shown on **Figure 5.1** below. The plan shows the reachable areas within 400m coloured bands from the site.

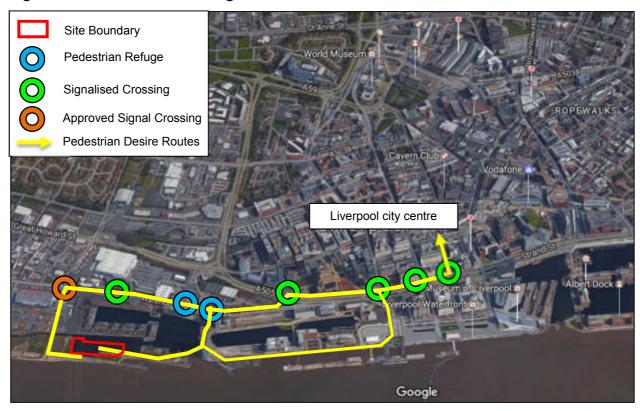
Figure 5.1 - Walking Accessibility 2km Isochrone





- 5.4 The site is within acceptable walking distance of Liverpool city centre and the vast array of amenities the city of Liverpool has on offer. The site is also within acceptable walking distance of numerous transport facilities. The closest bus stop is located on Waterloo Road approximately 100m north of the approved Waterloo Road / Northern Link Road junction. Moorfields and James Street Merseyrail stations can both be accessed in under a 19 minute walk time (or <1.4km walk distance).
- 5.5 The topography of the local area is generally flat and conducive to pedestrian trips, and the area benefits from natural surveillance from the businesses that abut all the main walking routes. The local area is well lit and generally benefits from wide footways and dropped kerbs.
- Pedestrian crossings are provided at various points along Waterloo Road and the A5052 New Quay road on the route to Liverpool city centre, as shown on **Figure 5.2** below. The existing footbridge connecting the Central Docks, where the proposed Isle of Man Ferry Terminal will be located, to Princes Parade will also be refurbished by Peel, providing further pedestrian connections to the surrounding pedestrian network.

Figure 5.2 - Pedestrian Crossing Facilities Plan





- 5.7 It should also be noted that as part of the approved Northern Link Road connecting Waterloo Road to the planned Isle of Man Ferry Terminal, high quality pedestrian and cycle links will be provided and the junction with Waterloo Road will be significantly upgraded to a signal controlled junction with signalised crossings provided across the link road and the northern and eastern arms of the junction. The location of the approved signal crossing is also shown on **Figure 5.2** above.
- 5.8 Overall, the site benefits from high levels of accessibility by foot, with Liverpool city centre only a short walk from the site, providing opportunities for linked shopping, leisure and recreation trips as well as transport connections.
- 5.9 LCC have requested a £100,000 contribution towards enhancing pedestrian/cycle connectivity. However, this is not considered to be justified for the following reasons:-
 - High quality pedestrian and cycle routes will be introduced as part of the link road in addition signalised crossing at the junction where the link road meets Waterloo Road;
 - The development will provide a high-quality pedestrian / cycle walkway along the frontage to the dock which will connect into the footway provided by the IoM ferry to the south and future connections into the wider central docks area to the north;
 - The existing pedestrian and cycle infrastructure is considered to be of a good standard with crossings provided at various points along Waterloo Road and the A5052 New Quay road.

Cycle Accessibility

- 5.10 Transport policy identifies that cycling represents a realistic and healthy option to use instead of the private car for making journeys up to 5km as a whole journey or as part of a longer journey by public transport.
- 5.11 GIS TRACC software has again been used to assess the accessibility of the site by bicycle, for a 5km cycle distance and is shown on **Figure 5.3** below:-



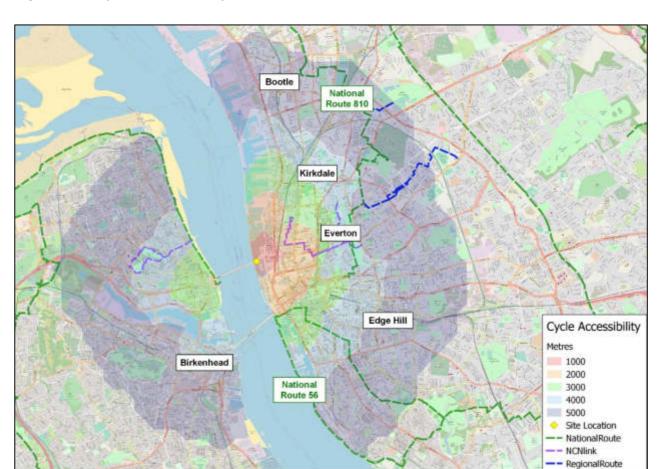
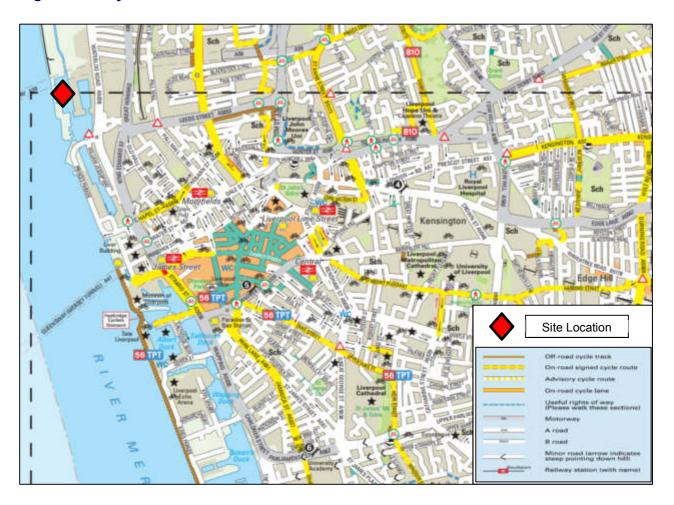


Figure 5.3 - Cycle Accessibility 5km Isochrone

- 5.12 The plan demonstrates that all of Liverpool city centre and the nearby areas of Bootle, Kirkdale, Everton and Edge Hill, amongst others, are all located within the 5km catchment area from the development site. The topography of the area is generally conducive to cycling and the site is therefore well located to encourage cycle journeys for prospective residents.
- 5.13 There is a City Bike station located on Waterloo Road approximately 120m south of the approved Waterloo Road / Northern Link Road junction which will encourage prospective residents that do not own a bicycle to cycle between the development site and Liverpool city centre.
- 5.14 Figure 5.3 also shows the sites proximity to the National Cycle Network Route 56 and 810. The two routes provide a useful connection in a north-west south-east direction from the development site and are made up of sections of both on road and off road cycle routes. Route 810 provides a link from Liverpool city centre to Formby via Crosby and Hightown and route 56 links Liverpool to Birkenhead, Wallasey and New Brighton via the Seacombe Ferry.
- 5.15 **Figure 5.4** below shows the available cycle facilities in the vicinity of the site.



Figure 5.4 - Cycle Facilities Plan



5.16 As the application site is within an acceptable cycle distance of a range of areas and associated facilities, cycling is considered to be a viable alternative to private car use for prospective residents of site, particularly when secure cycle parking is also being proposed.

Public Transport

- 5.17 The nearest accessible bus stop to the site is located on Waterloo Road, approximately 100m north of the approved junction.
- 5.18 In addition, a further bus stop is situated around 300m northeast of the approved junction, on the A565 Great Howard Street. Details of the bus services and frequencies which use these stops are provided in **Table 5.1** below:-



Table 5.1 - Bus Services:

Service No.	Route	Core Frequency of Services
136	Waterloo - Liverpool	Five services Daily – Monday to Friday
800	Speke, Liverpool - Seaforth, Litherland	One service Daily – Monday to Friday
838	Hunts Cross, Liverpool - Seaforth, Litherland	One service Daily – Monday to Friday

- 5.19 The above table demonstrates that prospective residents and employees of the site will have access to bus services stopping very close to the site which provide access to key destinations.
- 5.20 In terms of rail services, Moorfields Merseyrail station and James Street Merseyrail station are located 1.4km southeast of the site and are therefore both well within an acceptable walking and cycling distance. Both railway stations offer regular direct services throughout the week including services approximately every 15 minutes to Southport, Bootle and Hunts Cross. The stations also offer further connecting services to Manchester, Warrington and Birkenhead, amongst others.
- 5.21 Both Merseyrail stations are well within the acceptable cycling (5km) catchment from the development site and provide good connections to employment and leisure opportunities. Liverpool Lime Street Station is also within the acceptable cycling distance from the site and is the primary rail station in Liverpool that provides connections to locations both regionally and nationally. It is served by East Midlands Trains, London Midland, Merseyrail, Northern, Transpennine Express and Virgin Trains at a high frequency. The above services run directly to Birmingham New Street, Manchester Stations, London Euston and Norwich, amongst others.
- 5.22 The level of accessibility by public transport has been analysed using GIS TRACC software to assess the accessibility of the site and is shown on **Figure 5.5** below. The figure illustrates the distance that can be travelled within 60 minutes by public transport to and from the site, which includes the time taken to walk to the bus stops.



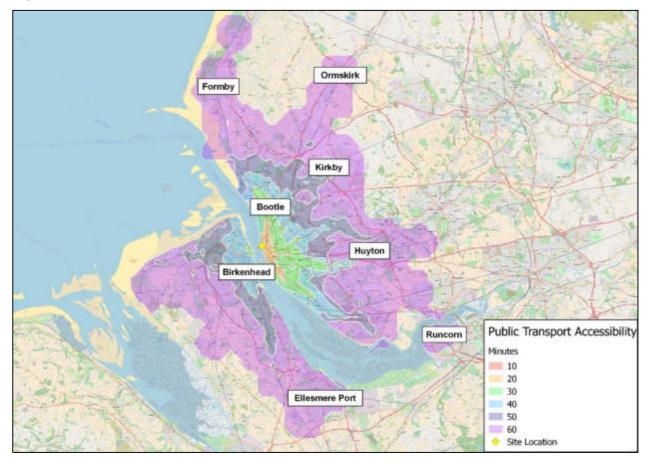


Figure 5.5 – 60 Minute Public Transport Catchment Isochrone

- 5.23 The above demonstrates that the site is within close proximity to a number of bus and railway links, serving both the local area and other destinations further afield. The figure shows that key areas of Liverpool, Birkenhead, Bootle, Runcorn and Kirkby, amongst others, are in an acceptable 60-minute commute time.
- 5.24 It is noted that Merseytravel have suggested that the development provides adequate access to the public transport network and fund the provision of public transport infrastructure (i.e. bus stops and bus service). It should be noted that as part of the wider Liverpool Waters development a public transport enhancement Strategy is to be development detailing how the proposed transport improvements will be implemented progressively alongside development. Having regard to this and as no public transport improvements are to be provided as part of the IoM permission, it is not reasonable for this development to fund such improvements.

Summary

5.25 The above assessments demonstrate that the site is in an accessible location with good potential for use of sustainable transport modes, and has a large range of local amenities within close proximity.



Minimum Accessibility Standard Assessment (MASA)

- 5.26 Notwithstanding the above analysis, the proposed development has also been assessed in terms of its compliance with the "Minimum Accessibility Standard Assessment" (MASA) criteria within LCC's adopted "Ensuring a Choice of Travel" SPD.
- 5.27 The MASA sets out a checklist of accessibility criteria for new developments and sets a minimum score (by use class) for access by foot, cycle, public transport and vehicles. The full detailed MASA report is presented in **Appendix E**.
- 5.28 The scheme meets or exceeds the minimum score criteria for 'Access by Cycle' and 'Vehicle Access and Parking'. This therefore adds further weight to the view that the development will be accessible.
- 5.29 The score for 'Access on foot' and 'Access by Public Transport' falls slightly short of the minimum score given the distance to the nearest local or district centre is greater than 500m and the frequency of bus services per hour. MfS states that facilities located within 2km are accessible on foot and therefore the site is within an acceptable walking distance of Liverpool city centre and the vast array of amenities the city of Liverpool has on offer. Notwithstanding this, it should be noted that as the Central Docks development comes forward the accessibility of the site will be further improved with numerous additional facilities located within the docks area. Similarly, as development in the Central Docks and Liverpool Waters comes forward, demand for bus services will increase and new and additional services will become economically viable to bus operators.
- 5.30 Having regard to the analysis presented in this Chapter, the site is considered to be in an accessible location with a large range of local amenities within close proximity. In addition, the site is well located to encourage travel via sustainable transport modes and the accessibility of the site will increase further when development of the local area comes forward.



6.0 ANTICIPATED HIGHWAY IMPACT

Overview

6.1 This chapter provides an estimate of the multi modal trips generated by the proposed development during the weekday AM and PM peak hours and provides a summary of the anticipated highway impacts on the local highway network.

Trip Generation

- 6.2 In order to estimate the trip generating potential of the proposed residential development, average trip rates from the industry-standard TRICS Database have been obtained. The selection criteria for the TRICS based trip rates is as follows:-
 - Residential;
 - Flats Privately owned;
 - Multi modal surveys;
 - · Sites in Greater London and Ireland excluded;
 - Selection by number of dwellings (50-154);
 - Weekday surveys only; and
 - Date range 01/01/2003-18/09/2017
 - Only sites in 'Edge of Town Centre' and 'Town Centre' locations have been selected.
- 6.3 The multi modal TRICS outputs for the proposed development are presented in **Appendix F** and are summarised in **Table 6.1** below:-

Table 6.1 - Estimated Trip Rates (Per Unit) Associated with the Proposed Development				
Mode	Weekday AM Peak Hour		Weekday AM Peak Hour Weekday PM Peak Hour	M Peak Hour
	Arrivals	Departures	Arrivals	Departures
Vehicles	0.056	0.173	0.162	0.087
Cycles	0.003	0.003	0.004	0.000
Pedestrians	0.023	0.134	0.145	0.060
Pub. Trans.	0.003	0.064	0.052	0.003

6.4 The estimated trip generation associated with the proposed development is therefore as summarised in **Table 6.2** below:-



Table 6.2 – Estimated Trip Generation – 538 Apartments				
Mode Weekday AM Peak Hour Weekday PM				M Peak Hour
	Arrivals	Departures	Arrivals	Departures
Vehicles	30	93	87	47
Cycles	2	2	2	0
Pedestrians	12	72	78	32
Pub. Trans.	2	34	28	2

6.5 It should be noted that the above trip generation estimates are considered to be extremely robust given that all the comparator sites in TRICS have significantly higher levels of parking with an average parking provision of 111%.

Anticipated Highway Impacts

- The impact of this development on the operation of the local highway network was considered in detail as part of the wider Liverpool Waters TA. Furthermore, as part of the approved Northern Link Road (Application Reference: 17F/2628) capacity assessments of the new signalised Link Road junction with Waterloo Road were undertaken which demonstrates that this junction will operate within capacity with the Liverpool Waters, which this site falls within, and other committed developments in place.
- 6.7 Having regard to the above, it is therefore considered that no further detailed assessment of the local highway network is required and that the traffic impact of the scheme is acceptable in planning terms.



7.0 LIVERPOOL WATER CONDITIONS

7.1 This section details the conditions set out by LCC in reference to the planning permission for Liverpool Waters (10O/2424) and reviews the proposed developments adherence to these conditions within **Table 7.1**.

Table 7.1 Liverpool Waters Condition List

Condition		
Number	Condition	Adherence
Humber		
10	Highway & Public Transport Enhancement Strategy - This strategy is to be submitted and approved demonstrating how the proposed transport improvements will be implemented progressively alongside development.	This TA demonstrates that, with the new link road in place, the site can be safely accessed by all modes of transport. In addition, the TA demonstrates that the proposed development will not have a material impact on the operational capacity or safety of the local highway network and no enhancement measures are therefore required as part of this development.
11	Detailed Neighbourhood Masterplans - Details of the proposed access should be described in the submitted Transport Assessment, including pedestrian and service access. Key pedestrian and cycle routes should also be identified within the Transport Assessment to identify how future residents of the development can readily travel to the City Centre and wider areas.	The TA provides details of the proposed site access, complete with a site access drawing, along with details of servicing access arrangements. The TA also highlights key local cycle routes and a key pedestrian route, with a facilities plan, to Liverpool city centre.
40	Highways & Public Transport Enhancement - A detailed statement is required setting out how specific highway and public transport enhancement works will be carried out.	Again, the TA demonstrates that the proposed development will not have a material impact on the operational capacity or safety of the local highway network and no enhancement measures are therefore required as part of this development.
41	Car & Cycle Parking Management Strategy - Details of the quantity and quality of car & cycle parking should be provided to ensure that the development is supported by the necessary level of car and cycle parking infrastructure in the interests of reducing travel by means of private car, encouraging sustainable patterns of travel, reducing traffic	The TA specifies the number of vehicle and cycle spaces in accordance to LCC guidance details; the ratio of parking; the traffic regulation orders in place on the adopted highway in the vicinity of the site; means of access and egress control to the car park; and the layout and design of the proposed car park.



42	congestion and pollution, ensuring inclusive access for all and safeguarding highway and pedestrian safety. Detailed Travel Plans - Prior to the commencement of development within any neighbourhood a detailed Draft Travel Plan should be produced setting out the specific means for delivering sustainable means of travel and assisting in reducing dependency on private car use.	A Travel Plan has been submitted as part of this application, setting out details for a designated Healthy Transport Action Plan and Marketing and Communication Strategy.
71	Highway Requirements - No buildings shall be erected until the TA has been approved and any identified measures have been secured to undertake the highway works and public transport enhancements required to ensure a sustainable and co-ordinated form of development that is supported by the necessary highway infrastructure, and safe and convenient forms of public transportation.	The TA demonstrates safe and effective multimodal accessibility to the proposed development site no requirements for highway works or public transport enhancements.
72	Servicing / Parking Area Restrictions - All loading, unloading and parking of vehicles associated with the development shall take place within the space allocated for those purposes to avoid servicing from the public realm and highways.	The TA provides details on the proposed servicing and parking arrangements, all of which will take place within the development site off the public highway.

Source: LCC (100/2424) Decision Notice



8.0 SUMMARY AND CONCLUSIONS

- 8.1 SCP have been appointed by Romal Capital Limited to provide specialist transport planning and engineering advice in support of the proposed development of Plot C02 of the Central Docks Neighbourhood within the Liverpool Waters Masterplan.
- 8.2 The development proposals consist of the construction of 538 apartments along with 400.6m² of ancillary ground floor commercial uses and associated parking.
- 8.3 Vehicular access to the development will be provided from a priority-controlled access located to the north-west of the site, off the approved new spine road linking Waterloo Road to the planned Isle of Man Ferry Terminal. The proposed access has a carriageway width of approximately 6m and operates on a two-way basis.
- 8.4 The access and internal site layout have been designed to accommodate a large refuse vehicle and a 12m rigid vehicle to avoid servicing and deliveries taking place on the approved link road. Swept path analysis demonstrates that both vehicles can manoeuvre within the site safely.
- 8.5 The personal injury accident data for the most recently available five-year period has been reviewed and does not represent a material concern in the context of the proposed redevelopment.
- 8.6 The development is compliant with local, regional and national policy as it will promote sustainable modes of travel and reduce the number of car trips to local facilities.
- 8.7 It has been demonstrated that the development is sustainable with good accessibility to the site provided to those travelling by foot, bicycle and public transport. Policies to encourage travel by sustainable modes are developed further within the Travel Plan that accompanies this application.
- 8.8 The impact of this development on the operation of the local highway network was considered in detail as part of the wider Liverpool Waters TA. Having regard to this, it is therefore considered that no further detailed assessment of the local highway network is required and that the traffic impact of the scheme is acceptable in planning terms.
- 8.9 Having regard to the above, it is concluded that there can be no reasonable highway related ground on which to withhold planning approval for the scheme.

S|C|P APPENDIX A



To: Peter Jones From: Stephen Walker

Development Control Highway Development Control

Planning Division Highways & Transportation

0151 233 3000 0151 233 0321

6th February 2019

Planning Application No:	18F/3247
Location:	Plot C02, Liverpool Waters Central Docks, Liverpool L3 0BT
Proposal:	To erect residential development comprising 646 apartments (Use Class C3) and 232 sq.m. of ground floor commercial space (Use Classes A1, A3, A4, B1, D1 or D2) in six blocks of between 10 to 14 storeys in height, with single storey concierge pavilion building, associated partial dock infill, access, parking, servicing, soft and hard landscaping/public open space, including two floating timber jetties and dockside walkway.

I refer to your memo requesting highway comments.

Response:

Highways requires amended parking provisions; subject to approval and the recommended conditions and a S106 contribution of £100,000 towards improvements to pedestrian/cycle connectivity between the site and the City Centre.

Comments:

Car parking – 115 spaces.

Cycle parking – 333 resident's spaces. 48 external visitor spaces.

The development is for six apartment blocks containing a combined number of 646 apartments together with office, retail, leisure and restaurant/café space at ground floor level. The principle of development has already been approved under the Liverpool Waters outline consent (100/2424).

Highways notes that the proposal falls well short of the recommended parking provision of 646 spaces by providing only 115 spaces (a 18% provision); a shortfall of 349 spaces.

Furthermore, the proposed level of resident's parking is below that of the adjacent plots within the Central Docks development known as C04 & C06 which offered an overall parking provision of 22%.

Whilst some reduction in parking could be accepted the level proposed falls below the current car ownership levels for the surrounding area and those agreed for neighbouring sites. The proposed level of car parking being offered therefore raises significant concerns that roadspace within the local area will become sought after for parking and the competition for places will likely result in inappropriate parking and oversubscription of the available spaces; this will also impact and limit any visitor parking options.

Highways therefore requires the applicant to review the level of parking being offered against the Transport SPD standards which usually recommend development at the edge of the City Centre provide a 0.7 provision. As a reference point, parking provisions should not be less than those developments consented within the Central Dock Neighbourhood Area and a higher provision is therefore recommended to address any concerns.

The lack of parking also emphasises the developments reliance on alternative means of transport such as walking, cycling and public transport. However, the level of cycle parking is also below the recommended 100% provision of 646 spaces at 333 spaces (a 50% provision) and the level of public transport accessibility is restricted by barriers to movement and the fact that the only convenient all-day bus service, the 101 which ran at half-hourly intervals, has now been withdrawn. The site is therefore remote from bus services.

The site is located in an area earmarked for future development and subject to enhancements required under the outline consent to improve highway and transportation connectivity. However, the site is considered remote from the City Centre by virtue of its distance and the barriers to movement; particularly those created by the A5036 Waterloo Road/Bath Street and the A5052 New Quay/King Edward Street.

Subject to satisfactory improvements to the parking provisions, a contribution of £100,000 would be sought as part of the submitted application; this contribution is consistent with the approach taken to other applications in the vicinity that are subject to the same access limitations where contributions have been sought at the rate of £100,000 per plot.

Servicing is to be carried from within the site and tracking diagrams indicate that the internal layout can cater for the typical movements involved; servicing access includes a route via undercroft access through the six buildings which have a headroom of approximately 5.5m and are therefore sufficient to allow for adequate access by refuse and servicing vehicles.

It is worth highlighting that the red line plan showing the land ownership does not tie into the boundary of the adopted highway and this would normally be a concern in terms of ensuring access to a site. However, the proposal is linked to the design and implementation of a new link road serving the wider site and the new Isle of Man Ferry terminal and a Grampian type condition will be required to ensure that the new road is constructed and available for use before the current application can be delivered.

It is likely that improvements will be required to improve the number of public transport services serving the area and discussions will be required with Merseytravel to ascertain how best this can be delivered.

The proposed dockside walkway running the length of the developments eastern boundary has potential to link with an aspirational pedestrian and cycle route through to Princess Dock. Highways would request this route is maintained as an accessible route and kept free from gates or barriers. It's noted the route is punctuated by reclaimed bounders and rock features, some of which appear to create pinch points along the route. This is evident adjacent to Block F where the dockside walkway turns through a 90° S-bend and these features reduce the useable width of the walkway. Highways would suggest that the proposed rock features and reclaimed boulders are removed from this location so as to open up the route and make it more accessible.

The site plans show the Northern Link Road, which will provide access to the new IOM Ferry Terminal, with a number of raised tables within the carriageway. These features are in conflict with the proposed access arrangements for the development and would not be able to be installed as shown. The Highway Authority has taken the view that the carriageway design for the Northern Link Road is yet to be agreed or fixed and as such, any conflict shown between these features and the access junctions into and out of the development can be considered further within the Link Road designs and do not present a highway safety concern.

S106 Obligation:

£100,000 towards improvements to pedestrian/cycle connectivity between the site and the city centre.

Conditions:

- No development shall take place until a scheme to provide pedestrian and vehicular access between the site and Waterloo Road has been implemented. For the avoidance of doubt the access arrangements shall be as indicated on the submitted drawings.
 - Reason: To ensure that the sufficient measures are taken such that the highway network can accommodate the development and that the traffic generated does not exacerbate unsatisfactory highway or transportation conditions.
- 2. The development shall not be implemented until the surface water drainage of the site has been designed to prevent the discharge of water on to the public highway. The drainage design shall be submitted to and approved in writing by the Council as Local Planning Authority.

Reason: To prevent unnecessary surface water from being deposited on to the highway thus causing a potential source of danger to other road users.

3. Except for site clearance and remediation no development shall take place until a scheme for the design and construction of the site accesses has been submitted to and approved in writing by the Council as Local Planning Authority. The accesses shall be designed in accordance with the principles set out in the approved drawings. For the avoidance of doubt, the site access points shall include pedestrian crossing points and tactile paving.

The approved scheme shall subsequently be constructed and completed prior to first occupation. The accesses shall be kept available for use at all times.

Reason: In order that the Council is satisfied that the highway works are carried out to the appropriate standard and to enable vehicles to enter and leave the premises in a safe manner without causing a hazard to other road users in the interests of road safety.

4. The swept paths shown on the approved plans for access by service vehicles shall be kept free of all obstructions and shall be available for use at all times.

Reason: In the interests of road safety as vehicles reversing into the highway cause a hazard to other road users.

5. Prior to first occupation/use of the premises, parking provision in line with the Council's current standards shall be provided in accordance with details which shall have first been submitted to and approved in writing by the Council as Local Planning Authority. The approved parking provision shall be kept free for that specific use thereafter. Notwithstanding the provisions of the Town and Country Planning Act (General Permitted Development) Order 1995 (or any Order revoking or re-enacting that Order) no Building works, which reduce this provision, shall take place except following the express grant of planning permission by the Council.

Reason: To ensure adequate parking provision is made thereby avoiding hazards caused by indiscriminate parking and to encourage the benefit of natural surveillance and security in order to actively deter criminal activity, including vandalism.

6. The parking spaces indicated on the approved plans shall be provided for the use of residents, occupiers and visitors of this development only and shall not be sold, leased or hired out to any third party.

Reason: To ensure that appropriate provision for parking vehicles is made and maintained, thereby avoiding hazards caused by indiscriminate parking.

7. The development shall not be brought into use until the areas indicated on the submitted plans to be set aside for cycle parking have been provided in accordance

with the details and specifications shown. The cycle parking shall be retained as such thereafter.

Reason: To ensure that adequate provision is made for parking cycles on the site; and to establish measures to encourage non-car modes of transport.

8. No works shall take place on the site at all until a method statement comprehensively detailing the phasing and logistics of demolition/construction has been submitted to and approved in writing by the Council as Local Planning Authority.

The method statement shall include, but not be limited to:

Construction traffic routes, including provision for access to the site

Entrance/exit from the site for visitors/contractors/deliveries

Location of directional signage within the site

Siting of temporary containers

Parking for contractors, site operatives and visitors

Identification of working space and extent of areas to be temporarily enclosed and secured during each phase of demolition/construction

Temporary roads/areas of hard standing

Schedule for large vehicles delivering/exporting materials to and from site

Storage of materials and large/heavy vehicles/machinery on site

Measures to control noise and dust

Details of street sweeping/street cleansing/wheelwash facilities

Details for the recycling/disposing of waste resulting from demolition and construction works

Hours of working

Phasing of works including start/finish dates

The development shall be carried out in accordance with the approved plan, unless otherwise agreed in writing with the Council as Local Planning Authority.

Reason: To ensure that adequate on-site provision is made for construction traffic, including allowance for the safe circulation, manoeuvring, loading and unloading of vehicles, as well as parking, and to reduce impact on residential amenity and the general amenity of surrounding occupiers.

9. The development shall not be occupied until the owners and occupiers of the site have appointed a Travel Plan Co-ordinator. The Travel Plan Co-ordinator shall be responsible for the implementation, delivery, monitoring and promotion of the Travel Plan, including the day-to-day management of the steps identified to secure the sustainable transport initiatives. The details (name, address, telephone number and email address) of the Travel Plan Co-ordinator shall be notified to the Council as Local Planning Authority upon appointment and immediately upon any change.

Reason: To ensure that an approved Travel Plan is implemented, in order to establish sustainable, non-car modes of transport.

- 10. Prior to the occupation of any dwelling, a Residential Travel Plan shall be submitted to and approved in writing by the Council as Local Planning Authority. The Plan shall include immediate, continuing and long-term measures to promote and encourage alternative modes of transport to the single-occupancy car. For the avoidance of doubt, the Travel Plan shall include, but not be limited to, the following:
 - a) Production and distribution of an information pack for residents detailing travel options and information for all modes of travel
 - b) Information on existing transport policies, services and facilities, travel behaviour and attitudes
 - c) Access for all modes of transport
 - d) Resource allocation including Travel Plan Co-ordinator and budget
 - e) A marketing and communications strategy
 - f) Appropriate measures and actions to reduce car dependence and encourage sustainable travel
 - g) An action plan including a timetable for implementation of each of each of the above
 - h) Mechanisms for monitoring, reviewing and implementing the travel plan

The Approved Residential Travel Plan shall be implemented in accordance with the timetable contained therein and shall continue to be implemented as long as any part of the development is occupied.

An annual report shall be submitted to the council no later than 1 month following the anniversary of the first occupation of the development for a period of 5 years. The annual report shall include a review of the Residential Travel Plan measures, monitoring data and an updated action plan.

Reason: To maximise opportunities for travel by modes of transport other than the private car, and to ensure that the development is sustainable.

11. Prior to first occupation of the development hereby permitted a servicing and waste management strategy shall be submitted to, and approved in writing by, the Council as Local Planning Authority. For the avoidance of doubt the strategy shall set out design and operational proposals for servicing and the storage, transfer and collection of waste ensuring that appropriate arrangements are made and that logistical requirements are appropriately considered and addressed. The strategy shall be subsequently implemented in accordance with the approved details.

Reason: To ensure that adequate on-site provision is made for servicing and waste management collection including allowance for the storage, transfer and collection of waste to reduce impact on residential amenity and the general amenity of surrounding occupiers.

Informatives:

1. If a street name and/or property numbering is required as part of this development, developers are required to contact Liverpool City Council who are the street naming and property numbering authority to arrange for addresses to be attributed to the development. Developers or property owners cannot attribute property numbers or addresses themselves, these can only be undertaken by the Council. Attributing addresses can take approximately 6 weeks to progress from application therefore applicants must give themselves sufficient time and are advised to make an early application to enable the process to be completed so that an address can be issued and used. In the first instance, the applicant is required to contact the Council's Development Control Team 0151 233 0324 Highway on HDC@Liverpool.gov.uk to be advised further on the processes and information requirements. Please note there is a fee for this process which shall be advised upon application.

Stephen Walker
Highway Development Control



Merseytravel

P.O. Box 1976 Liverpool L69 3HN Tel: 0151 330 1005 mail@merseytravel.gov.uk

CS/JP/JG

Your ref: 18F/3247

Mrs Julie Phillips Contact: Tol-

0151 330 1035

Email:

julie.phillips@merseytravel.gov.uk

Date:

25 January 2019

Mr P Jones Planning and Building Control Liverpool City Council Cunard Building Water Street Liverpool L3 1AH



Dear Mr Jones

To erect residential development comprising 646 apartments (Use Class C3) and 232 sq.m. of ground floor commercial space (Use Classes A1, A3, A4, B1, D1 or D2) in six blocks of between 10 to 14 storeys in height, with single storey concierge pavilion building, associated partial dock infill, access, parking, servicing, soft and hard landscaping/public open space, including two floating timber jetties and dockside walkway. Plot C02 Liverpool Waters Central Docks Waterloo Quay Liverpool L3 OBT

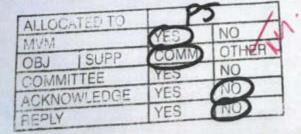
Thank you for your correspondence dated 13 December 2018 which relates to the above significant residential planning application and in response to this communication Merseytravel would wish to offer the following comments.

Firstly, Merseytravel notes the intention to include at least 115 car parking spaces within the development and would therefore wish to request Liverpool City Council require the developer to ensure that all traffic likely to be generated by such a car parking provision, together with all servicing and other traffic away from the development, could be accommodated within the local highway network without resulting in congestion that would impede the passage of bus services in or around the Liverpool Waters area as part of the development's Overall Programme.

Assossed as

Secondly, Merseytravel would with to request that Liverpool City Council require the developer to ensure that all demolition and construction works be carried out in a manner that would not cause any adverse impact upon the integrity, safety or operation of the Merseytravel Kingsway Tunnel which lays beneath the development site. Furthermore Merseytravel would wish to request that the development in its final format should satisfy the same standards and Merseytravel is fully prepared to provide any advice and guidance to the development or Liverpool City Council in respect of these two requirements.

Cont'd...







Thirdly, in order to ensure the proposed site would have adequate access to the public transport network. If public transport network, Merseytravel would wish to request Liverpool City Council require the developer to find the council state of require the developer to fund the following measures;

- the construction and instalation of appropriate bus stop infrastructure along the new development. (a) the new development access; and
- the provision of funding for an appropriate bus service to the development from the completion from the completion of the one hundredth residential unit on the site these service should be serviced and service should be serviced and service should be serviced and serviced should be serviced and serviced should be serviced as serviced as serviced and serviced and serviced as (b) service should be in line with the wider Liverpool Walrus commitments and should provide should provide suitable links to the City Centre and the Merseyrail network.
- the upgrade of bus infrastructure on Waterloo Road close to the development. (c)

Fourthly, in order to ensure the development would accord with Equalities legislation and so that all mambers of the local and so that all opportunities within the site would be open to all members of the local community and to ensure that all residential units within the development could be rendered homes fit for lifetime use, Merseytravel would wish to request Liverpool City Council require the developer to create appropriate access for Merseytravel Merseylink dial-a-ride vehicles and all other demand responsive bus services to all residential units within the site.

Fifthly, Merseytravel would wish to request that Liverpool City Council require the developer to create good quality, well-lit walking routes from the development's primary entrance/exits and the nearest bus stops which are likely to be located upon the development's access road and Waterloo Road.

Sixthly, Merseytravel notes and welcomes the inclusion of a draft travel plan within the application materials. In order to ensure the detail of this plan is realised and the development could be brought forward in a sustainable manner Merseytravel would wish to request that Liverpool City Council require the developer to complete and implement a full travel plan for the site which would effectively promote the use of sustainable travel including public transport, to all residents and users of the

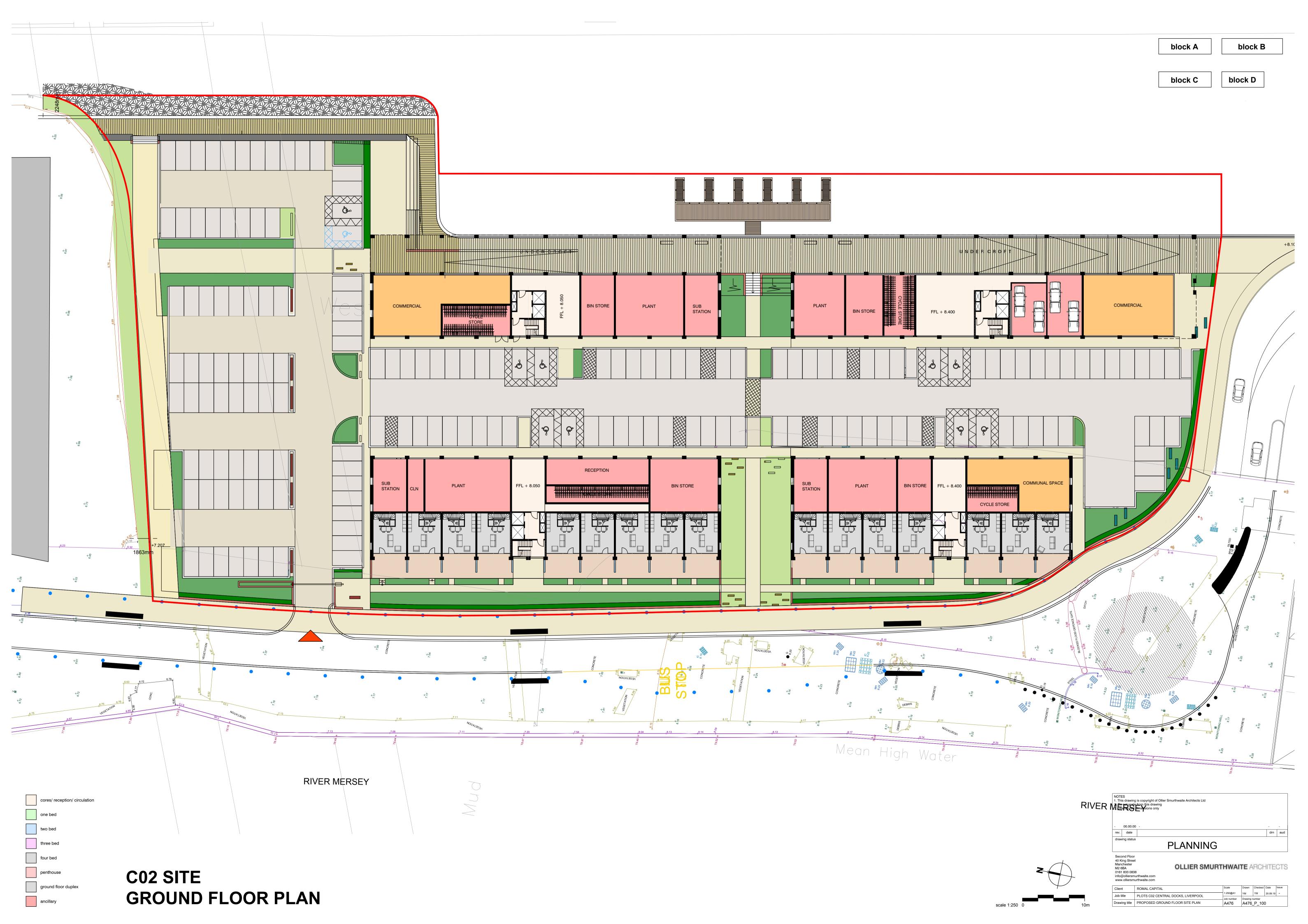
I trust that the above comments clarify Merseytravel's views in respect of this application, however should you require any further information or assistance from ourselves on the matter, please do not hesitate to contact me.

Yours sincerely

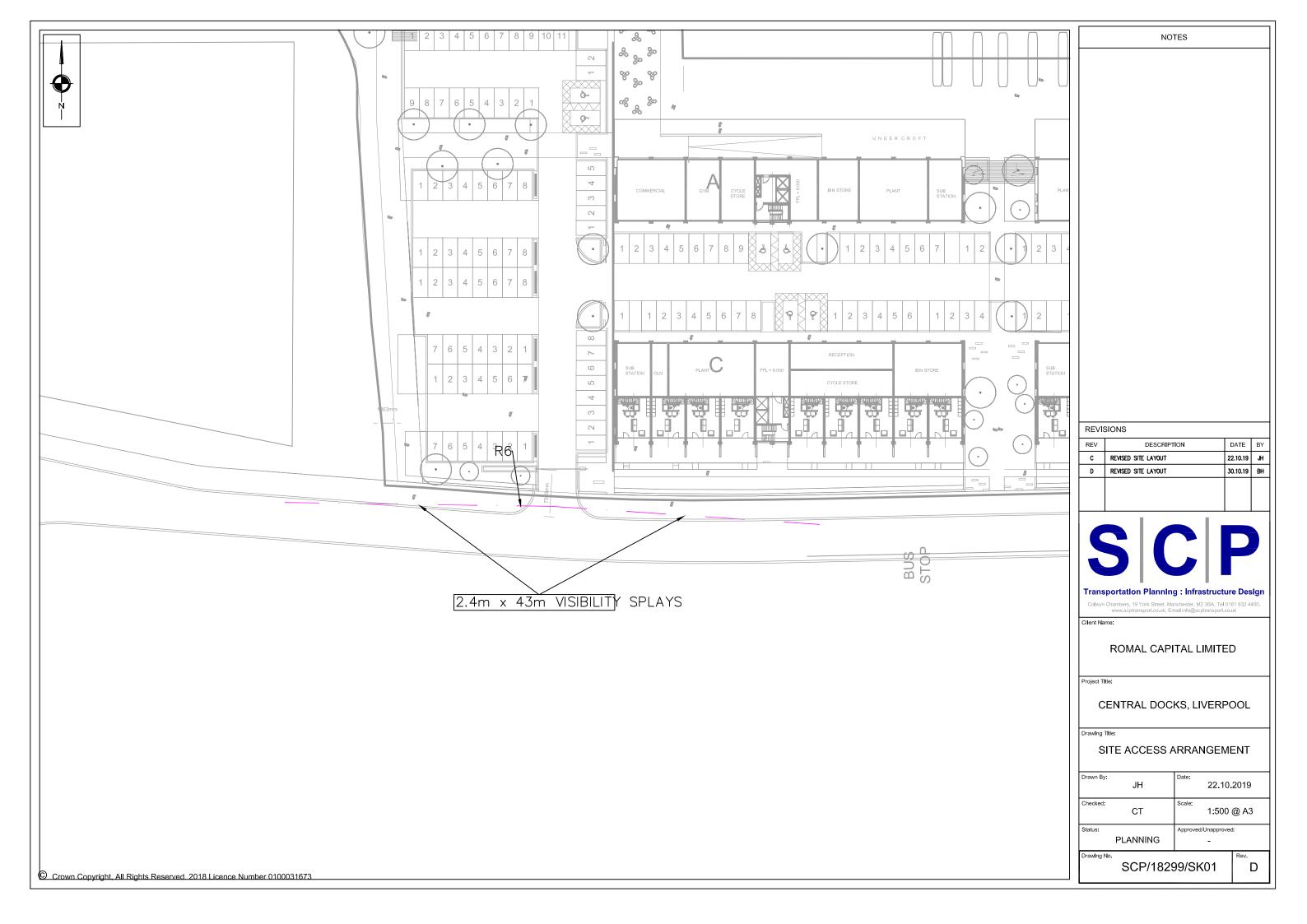
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Julie Phillips **Planning Assistant**

S|C|P APPENDIX B



S|C|P APPENDIX C



S|C|P APPENDIX D



S|C|P APPENDIX E

Minimum Scores

3.11 The minimum standard scores which are detailed have been developed through open and transparent testing by partner authorities and stakeholders on Merseyside. The scores have been tried and tested by transport and development professionals on real life developments.

Table 3.1: Minimum Levels of Accessibility: Minimum Scores for 'Medium' 'Large' and 'Major' Developments

Development Type	Location (see key below)	Development Size	Minimum score for walking	Minimum score for cycling	Minimum score for public transport	Minimum score for vehicle access
A1 Retail D2 Assembly	Urban Centre	Major & Large	2	5	5	3
& Leisure		Medium	2	3	3	2
	Other Urban	Major & Large	4	5	6	2
		Medium	4	3	4	1
A3 Restaurants	Urban Centre	All	1	4	4	3
& Cafes A4 Drinking Establishments A5 Hot Food	Other Urban	All	4	5	4	1
Takeaway A2 Financial	Urban	Major &	2	5	5	3
and Professional	Centre	Large				
Services		Medium	2	4	5	2
	Other Urban	Major & Large	4	5	6	1 or 3 ⁽²⁾
		Medium	4	4	4	1
B1 Business (including	Urban Centre	Major & Large	2	5	5	3
educational sites)		Medium	2	4	5	2
,	Other Urban	Major & Large	4	5	6	1 or 3 ⁽²⁾
		Medium	4	4	4	1
B2 Industrial Uses	Urban Centre	Major & Large	n/a	n/a	n/a	n/a
		Medium	2	4	4	1
	Other Urban	Major & Large	2	3	5	1 or 3 ⁽²⁾
		Medium	2	2	4	1
B8 Storage and	Urban Centre	Major & Large	n/a	n/a	n/a	n/a
distribution		Medium	2	4	4	1

Development Type	Location (see key below)	Development Size	Minimum score for walking	Minimum score for cycling	Minimum score for public transport	Minimum score for vehicle access
	Other Urban	Major & Large	2	3	5	1 or 3 ⁽²⁾
		Medium	2	2	4	1
C1 Hotels	Urban Centre	Major & Large	2	5	5	3
		Medium	2	3	5	3
	Other Urban	Major & Large	4	5	5	1
		Medium	4	3	4	1
C3 Dwelling Houses	Urban Centre	Major & Large	4	4	5	3
(For flats with no		Medium	2	3	5	3
'internal circulation',	Other Urban	Major & Large	4	5	5	1
issues, i.e. no car park, reduce walking and cycling target by 1.)		Medium	4	3	5	1
C2 and D1 Residential	Urban Centre	All	2	5	5	3
and non-residential institutions (medical centres, museums and galleries, public halls and meeting places)	Other Urban	All	4	5	6	1

Notes:

(1) Urban Centres = Urban Centres in Liverpool are the City Centre (as defined by the Liverpool Vision City Centre boundary in Appendix F), and District Centres as shown on the UDP/LDF proposals map.

Other Urban = The areas that are not in the City / District Centres.

(2) In locations outside of the main centres, if reduced parking standards can not be applied with on-street parking controls (score 3), then the maximum parking level may be sought (score 1)

Minimum Accessibility Standard Assessment

Minimum	Accessibility	Standard	Assassment
IVIIIIIIIIIIIIII	ACCESSIDILLA	Stallualu	A33C33IIICIII

Pro	posal	ŀ
-----	-------	---

Address:					
Completed	Ву:				
		Access Diagram	1		
Has a diagram been submitted which shows how people move to and through the development and how this links to the surrounding roads, footpaths and sight lines? (This can be included within the Design and Access Statement, see Section 2.25.) If a diagram has not been submitted your application may not be processed.					
Access on	Foot			Points	Score
Safety	Is there safe pedestrian pedestrians passing the sides of the road)? If no yaccess.	site (2m minimum wid	th footpath on both		Yes)/ No
Location	Housing Development: within 500m of a district Accessibility Map 1 in A Other development: Is to local housing (i.e. within houses per hectare (see Appendix F)	or local centre (see ppendix F) he density of existing a 800m) more than 50	Yes	0	0
Internal Layout	Does 'circulation' and ac reflect direct, safe and e routes for all; with priorit when they have to cross	easy to use pedestrian ty given to pedestrians	Yes No	0	1
External Layout	heavy traffic;	ch restrict pedestrian de Code of Practice on I.	There are no barriers	-2 1	1
Other	The development links to Accessibility Map 1). If r				Yes / No
				Total (B)	
Summary	Box A: Minimum Standard (from Table 3.1)	4	Comments or action any shortfall	n needed t	to correct
	Box B: Actual Score	2			

Access by	Cycle			Points	Score
Safety	Are there safety issues for a road junctions within for cyclists due to the levissues in your application	n 400m of the site (e.g. vel of traffic)? If yes, you	dangerous right turns		Yes No
Cycle Parking	Does the development meet cycle parking standards, in a secure location with natural surveillance, or where appropriate contribute to communal cycle parking facilities? If no, you must address cycle parking standards and cycle parking facilities.				Yes /No
Location	Housing Development: Is the development within 1 mile of a district or local centre (see Accessibility Map 1) Other Development: Is the density of local housing (e.g. within 1 mile) more than 50 houses per hectare (see Accessibility Map 4 in Appendix F)			0	2
Internal	Does 'circulation' and ad		Yes	1	1
layout	reflect direct and safe cycle routes; with priority given to cyclists where they meet motor vehicles?		0		
External Access	The development is within 400m of an existing or proposed cycle route (see Accessibility Map 1 in Appendix F) and / or proposes to create a link to a cycle route, or develop a route?			1	1
	The development is not route (see Accessibility		ing or proposed cycle	-1	
Other	Development includes s	shower facilities and	Yes	1	1
	lockers for cyclists No			0	
				Total (B)	
Summary	Box A: Minimum Standard (From Table 3.1)	4	Comments or action any shortfall	n needed t	to correct
		I			

	I				
	Box B:	_			
	Actual Score	5			
Access by	Public Transport			Points	Score
Location	Is the site within a 200m safe and convenient Yes			2	0
and access to	walking distance of a bu 400m of a rail station? ((No)	0	
public	2 in Appendix F).	, .,)		
transport	Are there barriers on dire		There are barriers	0	1
	routes to bus stops or ra A lack of dropped		There are no	1	
	 Pavements less th 	an 2m wide;	barriers		
	 A lack of formal cr heavy traffic; or 	ossings where there is			
	Bus access kerbs.				
Frequency	High (four or more bus	services or trains an ho	ur)	2	0
	Medium (two or three be	us services or trains an	hour)	1	
	Low (less than two bus services or trains an hour)			0	
	Low (less than two bus	services or trains an ho	oui)	U	
Other	Low (less than two bus The proposal contribute			1	
Other	The proposal contribute	s to bus priority measures to bus stops, bus inter	res serving the site		
Other	The proposal contribute	s to bus priority measures to bus stops, bus inter	res serving the site	1	
Other	The proposal contribute The proposal contribute stations in the vicinity ar	s to bus priority measur s to bus stops, bus inter nd/or provides bus stop	res serving the site rchange or bus or rail s or bus interchange	1	
Other	The proposal contribute The proposal contribute stations in the vicinity as in the site	s to bus priority measur s to bus stops, bus inter nd/or provides bus stop	res serving the site rchange or bus or rail s or bus interchange	1	

Summary	Box A:	5	Comments or action	n needed	to correct
	Minimum Standard		any shortfall		
	(from Table 3.1)				
	Box B: Total Score	1			
Vehicle Ac	cess and Parking			Points	Score
Vehicle access	Is there safe access to safety issues.	and from the road? If no	o, you must address		Yes/ No
and circulation	Can the site be adequat issues.	ely serviced? If no, you	must address service		Yes/ No
	Is the safety and conve and public transport) aff address safety issues.				Yes (No)
	Has access for the ememors provide emergence		provided? If no, you		Yes)/ No
	For development which the site easily accessed (i.e. minimising the impaneighbourhoods) (see A please provide an explain	I from the road or rail fro act of traffic on local roa Accessibility Map 3 in A	eight route networks ads and		Yes / No
Parking	The off-street parking p that development type.				Yes (No

	The off-street parking pr	rovided is as advised in	Section 4 for that	(1)	Yes / No
	development type				
	The off-street parking pro in Section 4 for that dev with another developme	elopment type (or share		2	Yes / No
	For development in con	trolled parking zones:			Yes / No
	Is it a car free devel	elopment?		1	Yes / No
	provision of disabl	ol or removal of on-streed spaces), or contributed parking strategy (in	tes to other identified	1	Yes / No
				Total (B):	
Summary	Box A:		Comments or actio		
	Minimum Standard		any shortfall. If con appropriate for the	reduced le	evel of
	(From Table 3.1)		parking (see section been provided, plea		
	3	3			

S|C|P APPENDIX F

Singleton Clamp & Partners Mount Street Manchester Licence No: 726001

Calculation Reference: AUDIT-726001-180711-0708

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL

Category : C - FLATS PRIVATELY OWNED

MULTI-MODAL VEHICLES

Selected regions and areas:

02	SOU.	TH EAST	
	EX	ESSEX	1 days
	SC	SURREY	1 days
04	EAS1	ΓANGLIA	
	NF	NORFOLK	1 days
	SF	SUFFOLK	1 days
06	WES	T MIDLANDS	
	WM	WEST MIDLANDS	1 days
07	YOR	KSHIRE & NORTH LINCOLNSHIRE	
	WY	WEST YORKSHIRE	1 days
80	NOR	TH WEST	•
	CH	CHESHIRE	1 days
	GM	GREATER MANCHESTER	1 days
	MS	MERSEYSIDE	1 days
11	SCO	TLAND	•
	SA	SOUTH AYRSHIRE	1 days
	SR	STIRLING	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: Number of dwellings Actual Range: 51 to 154 (units:) Range Selected by User: 50 to 154 (units:)

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/03 to 18/09/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count 11 days
Directional ATC Count 0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:

Town Centre 1
Edge of Town Centre 10

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Development Zone	2
Residential Zone	4
Built-Up Zone	3
No Sub Category	2

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

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Wednesday 11/07/18 Page 2

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Secondary Filtering selection:

Use Class:

C3 11 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:

10,001 to 15,000	7 days
15,001 to 20,000	2 days
25,001 to 50,000	2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

50,001 to 75,000	3 days
75,001 to 100,000	1 days
125,001 to 250,000	2 days
250,001 to 500,000	3 days
500,001 or More	2 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	4 days
1.1 to 1.5	7 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

No 11 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present 11 days

This data displays the number of selected surveys with PTAL Ratings.

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LIST OF SITES relevant to selection parameters

CH-03-C-01 **BLOCKS OF FLATS CHESHIRE**

NEW CRANE STREET

Edge of Town Centre Residential Zone

Total Number of dwellings:

60 Survey date: FRIDAY 17/10/08 Survey Type: MANUAL

EX-03-C-02 **BLOCK OF FLATS ESSEX**

WESTCLIFF PARADE

WESTCLIFF

SOUTHEND-ON-SEA Edge of Town Centre Residential Zone

Total Number of dwellings: 94

Survey date: TUESDAY 22/10/13 Survey Type: MANUAL

GM-03-C-02 **BLOCK OF FLATS GREATER MANCHESTER**

WHITWORTH STREET W.

MANCHESTER

Town Centre Built-Up Zone

Total Number of dwellings: 154

Survey date: THURSDAY 13/10/11 Survey Type: MANUAL

BLOCKS OF FLATS MERSEYSIDE MS-03-C-01

WAPPING ROAD

WAPPING DOCK

LIVERPOOL

Edge of Town Centre

Development Zone

Total Number of dwellings: 114

Survey date: THURSDAY 16/10/03 Survey Type: MANUAL

NF-03-C-01 **BLOCKS OF FLATS NORFOLK**

PAGE STAIR LANE

KING'S LYNN

Edge of Town Centre

Built-Up Zone

Total Number of dwellings: 51

Survey date: THURSDAY 11/12/14 Survey Type: MANUAL SA-03-C-01 **BLOCK OF FLATS SOUTH ÁYRSHIRE**

RACECOURSE ROAD

Edge of Town Centre Residential Zone

Total Number of dwellings: 51

Survey date: TUESDAY 16/09/14 Survey Type: MANUAL

SC-03-C-01 **FLATS** SURREY

HEATHCOTE ROAD

CAMBERLEY

Edge of Town Centre

Residential Zone

Total Number of dwellings: 140

21/07/08 Survey date: MONDAY Survey Type: MANUAL

SF-03-C-01 **BLOCKS OF FLATS** SUFFOLK

STATION HILL

BURY ST EDMUNDS

Edge of Town Centre

Built-Up Zone

Total Number of dwellings: 85

Survey date: THURSDAY 18/12/14 Survey Type: MANUAL TRICS 7.5.1 290318 B18.22 Database right of TRICS Consortium Limited, 2018. All rights reserved

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LIST OF SITES relevant to selection parameters (Cont.)

SR-03-C-01 **FLATS STIRLING**

FORTHSIDE WAY

STIRLING

Edge of Town Centre No Sub Category

Total Number of dwellings: 80

Survey date: WEDNESDAY 18/06/14 Survey Type: MANUAL

10 WM-03-C-03 **FLATS WEST MIDLANDS**

LODE LANE

SOLIHULL

Edge of Town Centre No Sub Category

Total Number of dwellings: 60

21/09/07 Survey date: FRIDAY Survey Type: MANUAL **WEST YORKSHIRE**

WY-03-C-01 **BLOCK OF FLATS**

EAST STREET CROWN POINT

LEEDS

Edge of Town Centre Development Zone

Total Number of dwellings: 127

Survey date: THURSDAY 13/11/03 Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

Singleton Clamp & Partners

Mount Street

Manchester

Licence No: 726001

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

MULTI-MODAL VEHICLES
Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

	ARRIVALS			ARRIVALS DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	92	0.026	11	92	0.109	11	92	0.135
08:00 - 09:00	11	92	0.056	11	92	0.173	11	92	0.229
09:00 - 10:00	11	92	0.062	11	92	0.083	11	92	0.145
10:00 - 11:00	11	92	0.076	11	92	0.082	11	92	0.158
11:00 - 12:00	11	92	0.058	11	92	0.078	11	92	0.136
12:00 - 13:00	11	92	0.090	11	92	0.072	11	92	0.162
13:00 - 14:00	11	92	0.067	11	92	0.094	11	92	0.161
14:00 - 15:00	11	92	0.083	11	92	0.086	11	92	0.169
15:00 - 16:00	11	92	0.085	11	92	0.064	11	92	0.149
16:00 - 17:00	11	92	0.102	11	92	0.071	11	92	0.173
17:00 - 18:00	11	92	0.162	11	92	0.087	11	92	0.249
18:00 - 19:00	11	92	0.126	11	92	0.067	11	92	0.193
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates: 0.993 1.066								2.059	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 51 - 154 (units:) Survey date date range: 01/01/03 - 18/09/17

Number of weekdays (Monday-Friday): 11
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Singleton Clamp & Partners

Mount Street

Manchester

Licence No: 726001

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

MULTI-MODAL CYCLISTS
Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

	ARRIVALS			ARRIVALS DEPARTURES				TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	92	0.000	11	92	0.005	11	92	0.005
08:00 - 09:00	11	92	0.003	11	92	0.003	11	92	0.006
09:00 - 10:00	11	92	0.003	11	92	0.003	11	92	0.006
10:00 - 11:00	11	92	0.003	11	92	0.005	11	92	0.008
11:00 - 12:00	11	92	0.003	11	92	0.001	11	92	0.004
12:00 - 13:00	11	92	0.002	11	92	0.005	11	92	0.007
13:00 - 14:00	11	92	0.000	11	92	0.000	11	92	0.000
14:00 - 15:00	11	92	0.001	11	92	0.000	11	92	0.001
15:00 - 16:00	11	92	0.003	11	92	0.002	11	92	0.005
16:00 - 17:00	11	92	0.000	11	92	0.001	11	92	0.001
17:00 - 18:00	11	92	0.004	11	92	0.000	11	92	0.004
18:00 - 19:00	11	92	0.003	11	92	0.000	11	92	0.003
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.025			0.025			0.050

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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Number of Saturdays: 0
Number of Sundays: 0
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This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Singleton Clamp & Partners

Mount Street

Manchester

Licence No: 726001

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

MULTI-MODAL PEDESTRIANS
Calculation factor: 1 DWELLS
BOLD print indicates peak (busiest) period

	ARRIVALS			RIVALS DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	92	0.013	11	92	0.045	11	92	0.058
08:00 - 09:00	11	92	0.023	11	92	0.134	11	92	0.157
09:00 - 10:00	11	92	0.027	11	92	0.095	11	92	0.122
10:00 - 11:00	11	92	0.038	11	92	0.050	11	92	0.088
11:00 - 12:00	11	92	0.048	11	92	0.062	11	92	0.110
12:00 - 13:00	11	92	0.072	11	92	0.077	11	92	0.149
13:00 - 14:00	11	92	0.073	11	92	0.059	11	92	0.132
14:00 - 15:00	11	92	0.068	11	92	0.053	11	92	0.121
15:00 - 16:00	11	92	0.075	11	92	0.050	11	92	0.125
16:00 - 17:00	11	92	0.110	11	92	0.083	11	92	0.193
17:00 - 18:00	11	92	0.145	11	92	0.060	11	92	0.205
18:00 - 19:00	11	92	0.091	11	92	0.032	11	92	0.123
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.783			0.800			1.583

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Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Singleton Clamp & Partners

Mount Street

Manchester

Licence No: 726001

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED

MULTI-MODAL PUBLIC TRANSPORT USERS

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

	ARRIVALS			ARRIVALS DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	92	0.001	11	92	0.049	11	92	0.050
08:00 - 09:00	11	92	0.003	11	92	0.064	11	92	0.067
09:00 - 10:00	11	92	0.004	11	92	0.021	11	92	0.025
10:00 - 11:00	11	92	0.006	11	92	0.010	11	92	0.016
11:00 - 12:00	11	92	0.015	11	92	0.009	11	92	0.024
12:00 - 13:00	11	92	0.004	11	92	0.012	11	92	0.016
13:00 - 14:00	11	92	0.006	11	92	0.013	11	92	0.019
14:00 - 15:00	11	92	0.006	11	92	0.003	11	92	0.009
15:00 - 16:00	11	92	0.025	11	92	0.004	11	92	0.029
16:00 - 17:00	11	92	0.030	11	92	0.009	11	92	0.039
17:00 - 18:00	11	92	0.052	11	92	0.003	11	92	0.055
18:00 - 19:00	11	92	0.021	11	92	0.002	11	92	0.023
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.173			0.199			0.372

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected: 51 - 154 (units:) Survey date date range: 01/01/03 - 18/09/17

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Number of weekdays (Monday-Friday): 11
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 0
Surveys manually removed from selection: 0

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