

TJAC SOUTHAMPTON ROW LLC

Managed Student Residential Accommodation 150 Southampton Row, London

Travel Plan

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1 INTRODUCTION

- 1.1 Transport Planning Associates (TPA) have been commissioned by TJAC Southampton Row LLC (TJAC) to provide transport planning consultancy services in relation to proposals at 150 Southampton Row, London.
- 1.2 It is proposed to convert the existing building from its current office space to managed residential student accommodation for students of CATS College London campus at 43-45 Bloomsbury Square.
- 1.3 This Framework Travel Plan document (FTP) has been produced in support of the planning application for the proposed development, and is submitted alongside an associated Transport Statement. Travel Plans are evolving documents, which endeavour to support sustainable travel by providing staff, residents and visitors with information to promote travel by sustainable modes to and from the development.
- 1.4 The FTP will set out the development accessibility by all modes and the measures proposed within the development to promote travel by means other than the private car to encourage walking, cycling and public transport as practical, viable modes of travel.

Planning Policy

- 1.5 National Planning Policy states that all new development should be accessible by means of transport other than the car, such as walking, cycling and public transport. The London Plan (July 2011) and Camden Planning Guidance documents both promote the implementation of travel plans for new and existing developments, as well as the promotion of sustainable modes of travel as far as possible.

2 EXISTING CONDITIONS

Application Site

- 2.1 The site, known as New Premier House, 150 Southampton Row, comprises four retail units at ground and lower ground floor levels, and areas fitted out for office use over floors 1-7. In terms of floor areas, the existing retail uses occupy approximately 1,087m² Gross Floor Area (GFA), while the total office space equates to 2,089m² GFA.
- 2.2 CATS College London is based at 43-45 Bloomsbury Square, a short walk from both Russell Square and Holborn underground stations. The site and college locations are shown on Figure 2.1.
- 2.3 The site is located in the Bloomsbury area, which comprises a mixture of residential, hotel, medical and education establishments, with a variety of retail units, bars and restaurants in the vicinity.

Local Highway Network

- 2.4 New Premier House faces directly onto the A4200 Southampton Row, which heads south towards High Holborn and Kingsway, and north towards the A501 Euston Road. Southampton Row is a single carriageway road with a 30mph speed limit. There is limited on-street parking in the area, with parking restrictions in place along Southampton Row immediately adjacent to the site.
- 2.5 A bus lane begins adjacent to New Premier House and continues south along the A4200 towards The Strand, which operates during the AM and PM peaks.

Pedestrian/Cycle Access

- 2.6 Access to the site for pedestrians is directly from Southampton Row, with wide footways extending in both directions, and on both sides of the carriageway. There are a number of pedestrian-only passages and footpaths in the vicinity of the site, particularly Cosmos Place to the south which links Southampton Row and Queen Square, and Russell Square and Bloomsbury Square to the north and south respectively.
- 2.7 A number of signal controlled crossing points exist in the vicinity of the site, allowing pedestrians to cross Southampton Row at a number of desire line points. Overall, pedestrian provision is good, with well lit, wide footways and numerous controlled crossing points.
- 2.8 There are a number of Barclays Cycle Hire locations in the vicinity of the site, however there are no cycle lanes or other cycle parking facilities in the area. A local cycle route runs along

Tavistock Street to the north of the site, towards Clerkenwell and Farringdon to the east, and Tottenham Court Road to the west. The majority of cyclists in the area use the main carriageway or bus lanes where appropriate.

- 2.9 A plan showing public transport and cycle hire locations in the vicinity of the site is provided as Figure 2.2.

Public Transport Provision

- 2.10 The site is highly accessible by public transport, classified with a PTAL rating of 6b. PTAL values range from 1a-6b where 1a indicates extremely poor access to a location by public transport and 6b indicates excellent access by public transport. Access to regular Piccadilly line services via Russell Square underground station is located 250m walking distance to the north of the site, while both Piccadilly and Central line services are accessed via Holborn underground station, 500m to the south. Mainline overground rail services are accessed via Euston Station 1km to the north, with Kings Cross and St Pancras stations a further 400m away.
- 2.11 A number of bus services stop in the vicinity of the site, with 18 services accessible within an 8 minute walk of the site. Each stop has a number of regular services, with most services arriving at 5-10 minute intervals. The full PTAL output report for the site is located in **Appendix A**.

CATS College Student Management

- 2.12 As presented in the Transport Assessment and Student Management Plan, students at CATS College are primarily international, with courses orientated towards pre-university education. Students are fully provided for, with meals provided on the college premises, and classes 6 days a week. Administrative services are also provided at the college buildings. All deliveries, etc for students are received at the college, as well as provision of additional study space and facilities outside of teaching hours.
- 2.13 Students are enrolled at the College for a minimum of two semesters, with a number of students also enrolling on summer courses. Courses are structured to support a one-year learning programme, with students rarely staying for more than two semesters and a summer course.
- 2.14 Daily timetables for students are rigorous, with students arriving at the college buildings for breakfast from 07:30 on weekdays. Classes run between 09:00 and 16:30, including a break for lunch, which is provided onsite, followed by the evening meal between 17:00 and 18:00. After 18:00, approximately 25% of students remain onsite to continue studying, 25% return to their accommodation, and the remainder undertake scheduled activities organised and supervised by the College. By 20:30 all students are back at their accommodation to undertake further individual study. "Lights out" is at 22:30 for all students.

- 2.15 At weekends the timetable is similarly defined; students are at the college buildings between 08:00 and 13:00 for lessons on Saturdays, including breakfast and lunch, with scheduled events between 13:00 and 18:00, followed by the evening meal at the college buildings. Further scheduled events take place until 21:30, when students return to the residence, and “lights out” at 22:30. Sundays are less rigorous, with brunch served between 10:00 and 14:00, and scheduled activities or time for domestic activities and further study between 12:00 and 17:00, followed by the evening meal between 17:00 and 18:00. Sunday evenings are set aside for further study either at the College or in the accommodation. Students are supervised at all times.
- 2.16 Students currently travel from residential accommodation on Caledonian Road to the college site in Bloomsbury Square via Russell Square station and the Piccadilly line. Students are not allowed to have cars, and secure cycle parking is provided at their accommodation.
- 2.17 Students arriving at CATS College at the start of term are required to arrive over a preceding weekend, and have been provided well in advance with specific details of transport and arrival times. Staff meet students at an appropriate point in their journey, for example Heathrow airport or St Pancras International station, and students are then escorted to their accommodation and settled in. The same procedure applies to students departing at the end of term. Students are not allowed to leave before term finishes.

3 PROPOSED DEVELOPMENT & TRIP GENERATION

Development Proposal

- 3.1 The development proposal comprises conversion of 2,090m² existing office space at 150 Southampton Row to self-catering residential accommodation for 154 students aged 16-19, with associated study and communal space over 8 floors. The existing retail units at ground and lower ground floor levels will remain, with no operational changes.
- 3.2 This development is to provide more appropriate accommodation for students of CATS College than that currently provided, with students being relocated from the existing accommodation at Caledonian Road to the proposed site at Southampton Row following development completion.
- 3.3 As with existing student accommodation for CATS College students, the development is proposed to be “car free”, a commitment which can be secured by a Section 106 agreement.

Non-Car Accessibility

- 3.4 The development will be “car free”, and as such no vehicle access has been proposed, and no parking facilities provided. Cycle parking will be provided for 80 cycles, in line with recommendations by Camden, in a secure area of the lower ground floor. Access to this parking is via the rear access to the property, and as such fulfils the requirements for access to cycle parking to be step free. Internal access is also provided via the main lift.
- 3.5 While the full complement of cycle spaces will be provided, it has been observed that existing CATS College accommodation in London sees similar levels of cycle parking being largely unused, with students preferring to walk or travel by public transport. It is therefore also considered unlikely that students will make use of the local London Cycle Hire stations.
- 3.6 Pedestrian provision will remain as that of the existing site, with the main access on Southampton Row. Students will access the college building on foot, over a variety of routes along Southampton Row and Bloomsbury Square.
- 3.7 The level of public transport accessible in the vicinity of the site is good, with a PTAL rating of 6b compared to the existing site at Caledonian Road which has a PTAL rating of 6a. Access to National Rail services is significantly improved, as well as a greater choice of London Underground routes providing wider access across London.

Development Trips

- 3.8 As outlined in the Transport Statement, analysis of similar sites in the TRAVL database shows that the proposed development is predicted to attract more person trips than the

existing office use. However, these trips are already occurring from the existing residential accommodation at Caledonian Road, and therefore already travel on foot between Russell Square station and the college site in Bloomsbury Square. These additional trips are therefore considered to be existing trips on the network to the college buildings via a number of approaches from Southampton Row and Bloomsbury Square.

- 3.9 Furthermore, review of the daily timetable laid out earlier in this report shows that students are likely to make only one trip in each direction between their accommodation and the college buildings on a daily basis. This is equivalent to a total of 308 daily trips. Trips associated with scheduled activities arranged by the College remain as existing, and as such are not considered new trips.

4 TRAVEL PLAN INITIATIVES

- 4.1 As has been outlined above, and presented in the accompanying Transport Assessment, the proposed development is considered to be highly sustainable from a travel perspective. Accessibility by non-car modes is excellent, with a variety of public transport links and a broad selection of facilities within easy walking distance of the site.
- 4.2 The proposed development represents a relocation of students from Caledonian Road, who currently travel to the College by public transport to Russell Square underground station and walk to the College, to the proposed site less than 400m from the college buildings, thereby resulting in a reduction in public transport trips. The walking routes to the college buildings continue to be broadly similar to the existing routes from Russell Square underground station.
- 4.3 Taking into account the pastoral care and study arrangements for students at CATS College, the “car-free” nature of the development and the proximity of the site to college buildings, it is considered that the day-to-day movements of students will already be at the most sustainable level, i.e. short distance walking trips. Therefore, it is considered that initiatives regarding student travel can only effectively be implemented for journeys to and from the accommodation at the beginning and end of term.
- 4.4 Staff associated with the proposed accommodation will be centrally employed at the college buildings in Bloomsbury Square, in line with current operational arrangements. Staff currently in supervisory roles at the Calendonian Road residential accommodation will most likely be transferred to the proposed site at Southampton Row, with the college buildings remaining their central employment location. Travel to and from the site will therefore continue to be undertaken by similar modes to that of existing travel, i.e. walking, cycling, public transport. This change of location does not represent a significant location shift for staff.

Choices for Students

- 4.5 Before arrival, students will be advised of the non-car options for travel to the proposed development by way of a pre-arrival pack, with international students advised of the links between London airports, the National Rail and London Underground networks and the proposed site. Links to TfL’s journey planner and other useful information will be provided. The car-free nature of the development will be clearly advised, and students will be required to arrive at their accommodation by public transport only, most likely walking from Russell Square or Holborn stations. Students will be accompanied by staff members from a designated collection point to their accommodation.
- 4.6 As the majority of students are expected to be arriving from outside the UK, it is highly unlikely that students will bring bicycles to the development on arrival. Should students require access to bicycles during their stay, there are a number of London Cycle Hire locations within walking distance of the site. Should students wish to purchase a bicycle during their stay, there are also a number of dedicated cycle shops in the locality. It has,

however, been observed that CATS College students rarely use the cycle facilities provided, preferring to walk or travel by public transport if necessary.

- 4.7 Within communal areas, accommodation reception and college reception areas, staff will be briefed on the easiest ways to access places of interest, as well as being able to guide students to the best ways of obtaining detailed transport information. Activities organised for students by the College will be undertaken as far as possible to promote walking and cycling, with use of public transport for travelling distances which prohibit walking. The use of private hire vehicles will also be discouraged, however the safety of students will be paramount.
- 4.8 It should be reiterated here that students are supervised at all times, and have minimal opportunity within the scope of their studies to undertake independent travel away from their daily trips between their accommodation and the college buildings. Students most often remain at the college for one academic year to obtain the required qualifications, before continuing their education elsewhere. The proximity of the proposed student accommodation to the college buildings is such that there would be a reduction in trips involving public transport and an increase in walking trips.

Choices for Staff

- 4.9 As the development is to be “car free”, no parking is proposed for staff within the vicinity of the site. Existing staff will be transferred from the Caledonian Road site to the proposed development at Southampton Row; as with student trips; this will result in redistribution of trips, as all staff are centrally located during academic sessions within the college buildings.
- 4.10 Staff will be advised where possible of alternative routes to their new location, promoting the viability of walking rather than using buses for short journeys, and encouraging a sustainable approach to travel in all cases. Considering the location of the College, and of the proposed accommodation, it is likely that the majority of staff are already travelling by public transport.

Initiatives

- 4.11 In order to encourage travel by sustainable modes, pre-arrival packs for students will present comprehensive information regarding travel routes, appropriate modes of transport and the car-free nature of the development. This information will also be available within the College buildings in central areas. Any travel undertaken in association with College activities will be arranged to be as sustainable as possible.
- 4.12 Staff will be similarly advised of viable sustainable alternatives to travel to the new site, with particular emphasis on walking and cycling to reduce their reliance on public transport. Staff will also benefit from the proximity of the site to the college buildings, enabling them to walk between the two sites rather than undertake journeys on the public transport network.

Objectives

- 4.13 Camden have requested objectives be set out to encourage staff and students to walk and cycle rather than travel by public transport. Taking the current arrangements into consideration, Table 4.1 below shows the objectives to be set and the methods proposed to achieve them.

Table 4.1 Travel Plan Objectives and Measures

Objective	Measure
Reduce public transport trips for students	Relocate student accommodation to Southampton Row
Reduce public transport trips for staff	Relocate student accommodation to Southampton Row
Encourage students to arrive and depart student accommodation at beginning and end of term by public transport	Provide public transport and travel information to students in their pre-arrival pack. Arrange students to be met by staff at appropriate locations on their arrival route to escort them directly to their accommodation.
Encourage travel by bicycle.	Provide secure cycle storage at accommodation. Provide information on off-road and low traffic cycle routes.
Encourage travel on foot	Provide information on walking routes to local amenities and attractions. Promote walking short distances instead of travelling by bus or tube.

- 4.14 Of these measures, the provision of information will be undertaken by staff at the College and via the pre-arrival pack sent out to students. Monitoring of the effectiveness of these measures will be undertaken by way of staff observations of student behaviour, and regular input from staff.
- 4.15 As requested by Camden, TRAVL after surveys will be undertaken for submission to Camden and inclusion in the TRAVL database. Should the results of these surveys not show compliance with the objectives set out above, further details will be sought from the College, and alternative measures considered.

5 SUMMARY

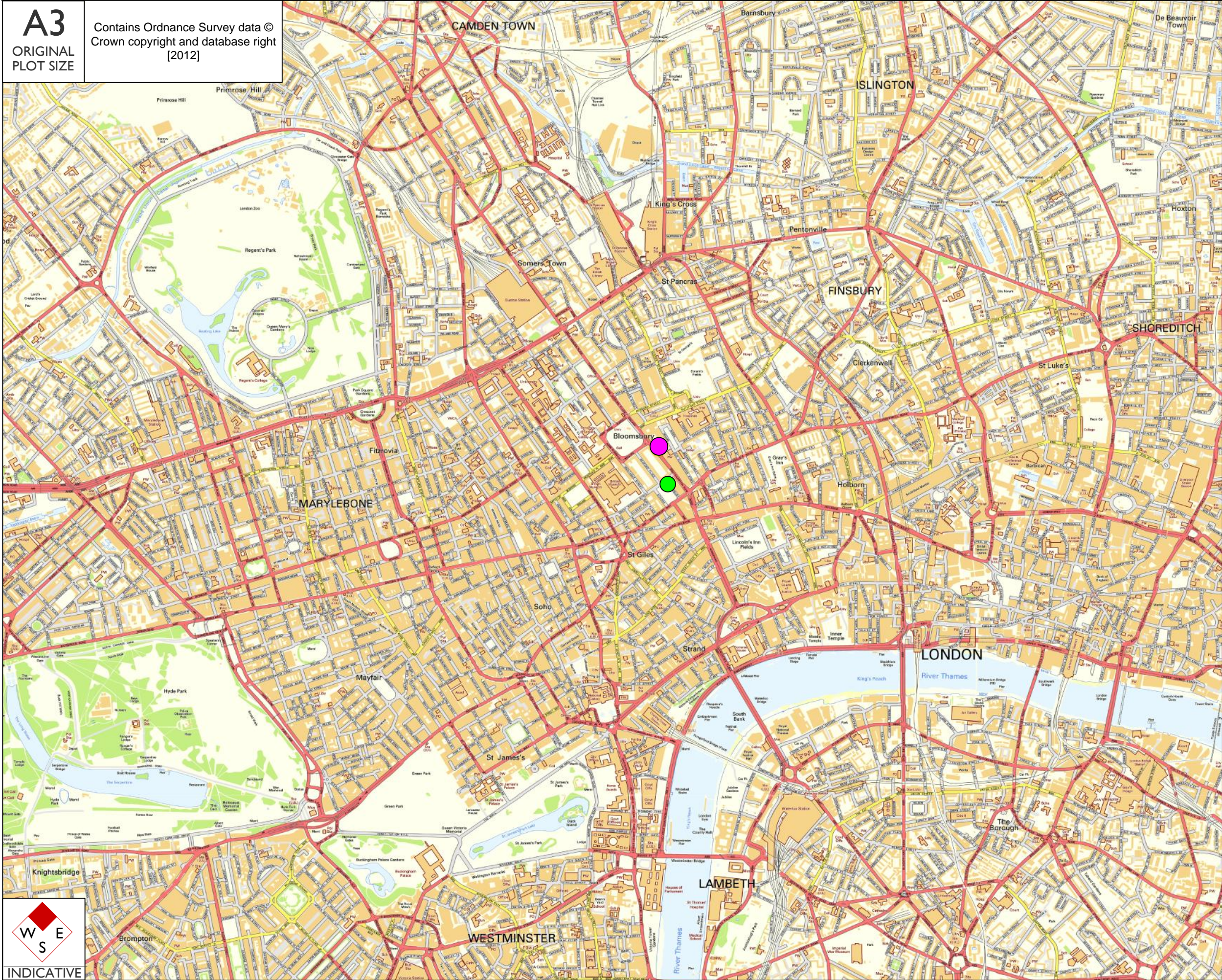
- 5.1 TPA has been commissioned to provide transport planning consultancy services in relation to the proposed development of 150 Southampton Row, London. It is proposed to convert the existing building from its current 2,090m² office space to managed residential student accommodation for students of CATS College. A framework travel plan has been prepared in support of the development.
- 5.2 The existing site is well located for such a development, with the site achieving a PTAL rating of 6b. Local amenities and college sites are easily accessible, with good levels of provision for travel on foot, by bicycle and on public transport. A large number of bus stops are located within easy walking distance of the site, with 18 routes stopping within 8 minutes walk of the site providing regular services.
- 5.3 The proposed development will be “car-free”, which can be secured via a Section 106 agreement. 80 secure cycle parking spaces are also proposed within the basement of the site, accessible by a step-free route, to allow and encourage students to cycle to and from the development.
- 5.4 As such, travel plan targets are not proposed; however, travel plan initiatives including pre-arrival travel information for new students are proposed, as well as provision of travel information via the permanently staffed reception areas at both the proposed student accommodation and the college buildings.

FIGURES

A3

ORIGINAL PLOT SIZE

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NOTES

Approximate Site Location

CATS College Location

Rev	Date	Details	Drawn by	Checked by

Bristol

Cambridge

Cardiff

London

Welwyn Garden City

tpa

Transport Planning Associates

Sheraton House

Castle Park

Cambridge

CB3 0AX

0122 3370 135

www.tpa.uk.com

ZVI Construction Company LLC

150 Southampton Row

London

Site Location Plan

STATUS:

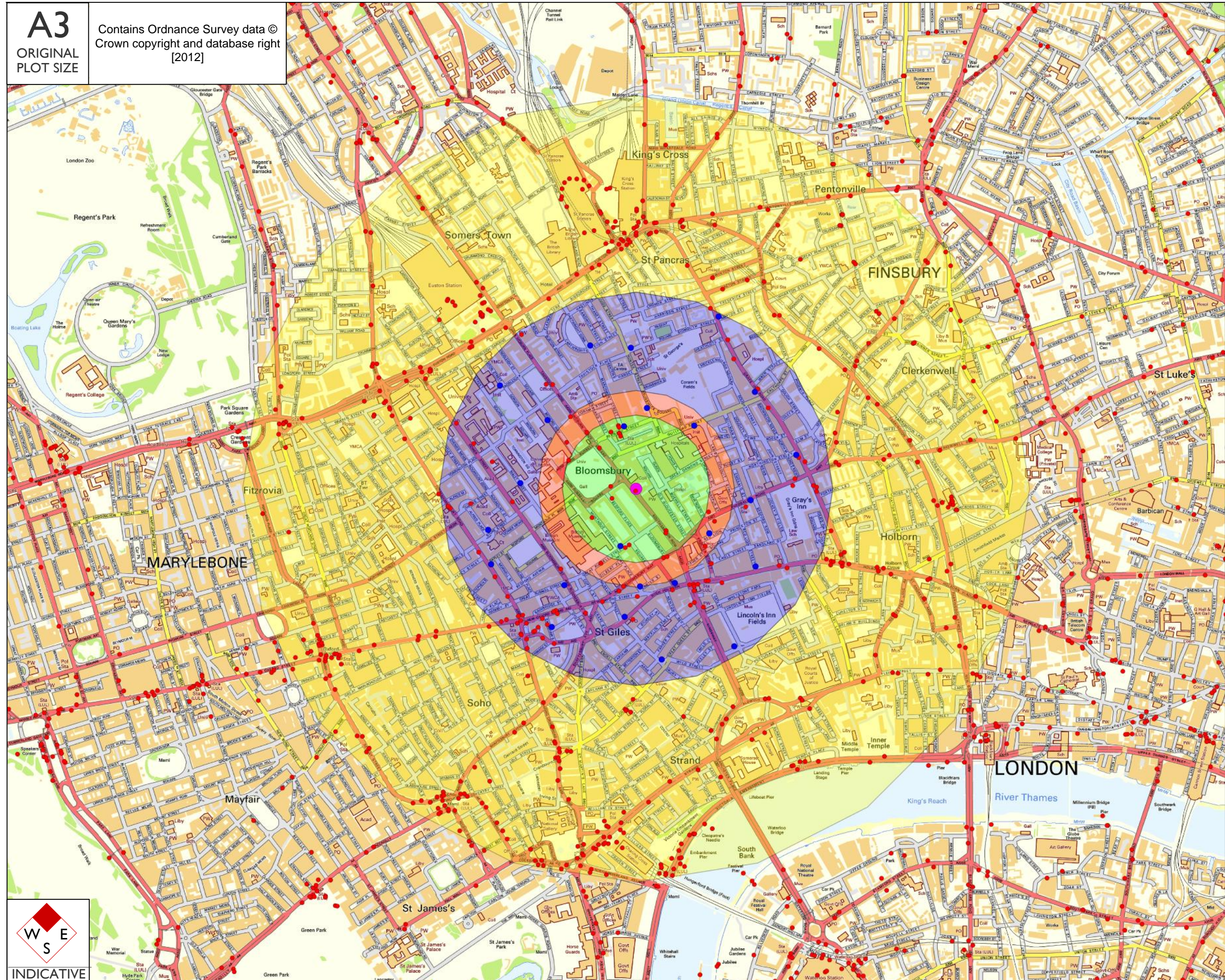
INFORMATION

SCALE:	PREPARED BY:	CHECKED BY:	APPROVED BY:
NTS	ELR	JH	JH
JOB NO:	DRAWING NO:	DATE:	
1207-22	Figure 2.1	July 2012	

A3

ORIGINAL
PLOT SIZE

Contains Ordnance Survey data ©
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NOTES

- Approximate Site Location
- Public Transport Stops
- Barclays Cycle Hire Stations
- 300m Walking/Cycling Distance
- 400m Walking/Cycling Distance
- 800m Walking/Cycling Distance
- 1600m Walking/Cycling Distance

Rev	Date	Details	Drawn by	Checked by

Bristol
Cambridge
Cardiff
London
Welwyn Garden City



Sheraton House
Castle Park
Cambridge
CB3 0AX
0122 3370 135
www.tpa.uk.com

ZVI Construction Company LLC

150 Southampton Row
London

Non-Car Accessibility Plan

STATUS:

INFORMATION

SCALE: NTS	PREPARED BY: ELR	CHECKED BY: JH	APPROVED BY: JH
JOB NO: 1207-22	DRAWING NO: Figure 2.2	DATE: July 2012	

APPENDIX A

PTAI Study Report File Summary

PTAI Run Parameters

PTAI Run 20121107094719
Description 20121107094719
Run by user PTAL web application
Date and time 11/07/2012 09:47

Walk File Parameters

Walk File PLSQLTest
Day of Week M-F
Time Period AM Peak
Walk Speed 4.8 kph
BUS Walk Access Time (mins) 8
BUS Reliability Factor 2.0
LU LRT Walk Access Time (mins) 12
LU LRT Reliability Factor 0.75
NATIONAL_RAIL Walk Access Time (mins) 12
NATIONAL_RAIL Reliability Factor 0.75

Coordinates: 530276, 181928

Mode	Stop	Route	Distance (metres)	Frequency (vph)	Weight	Walk time (mins)	SWT (mins)	TAT (mins)	EDF	AI
BUS	BLOOMSBURY SQUARE	38	386.36	12.0	0.5	4.83	4.5	9.33	3.22	1.61

BUS	BLOOMSBURY SQUARE	19		386.36	10.0	0.5	4.83	5.0	9.83	3.05	1.53
BUS	CONWAY HALL	243		496.32	11.0	0.5	6.2	4.73	10.93	2.74	1.37
BUS	BLOOMSBURY SQUARE	55		386.36	9.0	0.5	4.83	5.33	10.16	2.95	1.48
BUS	BLOOMSBURY SQUARE	242		386.36	10.0	0.5	4.83	5.0	9.83	3.05	1.53
BUS	HIGH HOLBORN PROCTOR ST	25		580.44	8.0	0.5	7.26	5.75	13.01	2.31	1.15
BUS	BLOOMSBURY SQUARE	8		386.36	10.0	0.5	4.83	5.0	9.83	3.05	1.53
BUS	HOLBORN STATION KINGSWAY	521		562.85	27.0	0.5	7.04	3.11	10.15	2.96	1.48
BUS	BLOOMSBURY SQUARE	98		386.36	10.0	0.5	4.83	5.0	9.83	3.05	1.53
BUS	RUSSELL SQUARE STH SIDE	X68		133.33	4.0	0.5	1.67	9.5	11.17	2.69	1.34
BUS	SOUTHAMPTON RW RUSSELL S	59		39.94	9.0	1.0	0.5	5.33	5.83	5.14	5.14
BUS	SOUTHAMPTON RW RUSSELL S	68		39.94	9.0	0.5	0.5	5.33	5.83	5.14	2.57
BUS	SOUTHAMPTON RW RUSSELL S	91		39.94	9.0	0.5	0.5	5.33	5.83	5.14	2.57
BUS	BLOOMSBURY SQUARE	171		386.36	7.5	0.5	4.83	6.0	10.83	2.77	1.39
BUS	BLOOMSBURY SQUARE	1		386.36	8.0	0.5	4.83	5.75	10.58	2.84	1.42
BUS	SOUTHAMPTON RW RUSSELL S	168		39.94	9.0	0.5	0.5	5.33	5.83	5.14	2.57
BUS	SOUTHAMPTON RW RUSSELL S	188		39.94	8.0	0.5	0.5	5.75	6.25	4.8	2.4

BUS	RUSSELL SQUARE STH SIDE	7	133.33	9.0	0.5	1.67	5.33	7.0	4.29	2.14
LU LRT	Holborn	Central Line Grange Hill to North Acton	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Russell Square	Piccadilly Line Rayners Lane to Cockfosters	323.58	2.7	0.5	4.04	11.86	15.91	1.89	0.94
LU LRT	Holborn	Central Line Epping to West Ruislip	519.38	2.3	0.5	6.49	13.79	20.29	1.48	0.74
LU LRT	Holborn	Central Line White City to Loughton	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Russell Square	Piccadilly Line Cockfosters to Heathrow T5	323.58	6.0	1.0	4.04	5.75	9.79	3.06	3.06
LU LRT	Russell Square	Piccadilly Line Uxbridge to Cockfosters	323.58	2.7	0.5	4.04	11.86	15.91	1.89	0.94
LU LRT	Holborn	Central Line Ealing Broadway to Newbury Park	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Holborn	Central Line White City to Newbury Park	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line Epping to North Acton	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Holborn	Central Line Debden to Northolt	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Russell Square	Piccadilly Line Oakwood to Rayners Lane	323.58	0.7	0.5	4.04	43.61	47.65	0.63	0.31
LU LRT	Russell Square	Piccadilly Line Ruislip to Cockfosters	323.58	1.3	0.5	4.04	23.83	27.87	1.08	0.54
LU LRT	Russell Square	Piccadilly Line Ruislip to Arnos Grove	323.58	1.3	0.5	4.04	23.83	27.87	1.08	0.54
LU LRT	Holborn	Central Line Ruislip Gardens to Hainault	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4

LU LRT	Holborn	Central Line Hainault to White City	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Russell Square	Piccadilly Line Arnos Grove to Northfields	323.58	2.3	0.5	4.04	13.79	17.84	1.68	0.84
LU LRT	Holborn	Central Line Northolt to Epping	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Russell Square	Piccadilly Line Cockfosters to Heathrow Terminal 4	323.58	6.0	0.5	4.04	5.75	9.79	3.06	1.53
LU LRT	Holborn	Central Line North Acton to Newbury Park	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line Hainault to West Ruislip	519.38	3.3	0.5	6.49	9.84	16.33	1.84	0.92
LU LRT	Holborn	Central Line Loughton to West Ruislip	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Holborn	Central Line West Ruislip to Newbury Park	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Holborn	Central Line Ruislip Gardens to Newbury Park	519.38	1.7	0.5	6.49	18.4	24.89	1.21	0.6
LU LRT	Holborn	Central Line West Ruislip to Debden	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Holborn	Central Line North Acton to Loughton	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Holborn	Central Line Hainault to North Acton	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Holborn	Central Line Hainault to Northolt	519.38	1.3	0.5	6.49	23.83	30.32	0.99	0.49
LU LRT	Russell Square	Piccadilly Line Arnos Grove to Rayners Lane	323.58	1.3	0.5	4.04	23.83	27.87	1.08	0.54
LU LRT	Holborn	Central Line Epping to White City	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3

LU LRT	Russell Square	Piccadilly Line Arnos Grove to Uxbridge	323.58	1.3	0.5	4.04	23.83	27.87	1.08	0.54
LU LRT	Holborn	Central Line Ealing Broadway to Epping	519.38	4.0	0.5	6.49	8.25	14.74	2.03	1.02
LU LRT	Holborn	Central Line Hainault to Ealing Broadway	519.38	5.7	0.5	6.49	6.01	12.51	2.4	1.2
LU LRT	Russell Square	Piccadilly Line Oakwood to Uxbridge	323.58	0.7	0.5	4.04	43.61	47.65	0.63	0.31
LU LRT	Holborn	Central Line Ruislip Gardens to Epping	519.38	1.7	0.5	6.49	18.4	24.89	1.21	0.6
LU LRT	Holborn	Central Line Loughton to Ealing Broadway	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line Ruislip Gardens to Loughton	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line West Ruislip to Grange Hill	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4
LU LRT	Holborn	Central Line Grange Hill to White City	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Russell Square	Piccadilly Line Heathrow Terminal 4 to Arnos Grove	323.58	2.0	0.5	4.04	15.75	19.79	1.52	0.76
LU LRT	Holborn	Central Line Debden to Ealing Broadway	519.38	0.7	0.5	6.49	43.61	50.1	0.6	0.3
LU LRT	Holborn	Central Line Grange Hill to Northolt	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line Loughton to Northolt	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Russell Square	Piccadilly Line Oakwood to Ruislip	323.58	0.7	0.5	4.04	43.61	47.65	0.63	0.31
LU LRT	Holborn	Central Line Debden to Ruislip Gardens	519.38	0.3	0.5	6.49	100.75	107.24	0.28	0.14
LU LRT	Holborn	Central Line Grange Hill to Ealing Broadway	519.38	1.0	0.5	6.49	30.75	37.24	0.81	0.4

LU LRT	Tottenham Court Road	Northern Line Mill Hill East to Kennington	928.29	4.3	0.5	11.6	7.73	19.33	1.55	0.78
LU LRT	Tottenham Court Road	Northern Line Kennington to Edgware	928.29	5.0	0.5	11.6	6.75	18.35	1.63	0.82
LU LRT	Tottenham Court Road	Northern Line Morden to High Barnet	928.29	3.7	0.5	11.6	8.86	20.46	1.47	0.73
LU LRT	Tottenham Court Road	Northern Line Edgware to Morden	928.29	8.3	0.5	11.6	4.36	15.97	1.88	0.94
LU LRT	Tottenham Court Road	Northern Line High Barnet to Kennington	928.29	5.4	0.5	11.6	6.31	17.91	1.68	0.84
LU LRT	Tottenham Court Road	Northern Line Morden to Mill Hill East	928.29	1.0	0.5	11.6	30.75	42.35	0.71	0.35

NR SAP Points Not Found

Total AI for this POI is 62.8.

PTAL Rating is 6b.

PTAI Study Report File Details

Date 11/07/2012 09:47

Day of week M-F

Time period AM peak

Walk speed 4.8 kph

Walk file PLSQLTest

POI Name: 530276, 181928

Bus Services

Reliability factor for this mode is 2

Maximum walk time for this mode is 8 minutes

Maximum walk distance for this mode is 640.0 metres

Stop CONWAY HALL

Walk time to stop from POI is 6.2 minutes

Walk distance to stop from POI is 496.32 metres

Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes

Route 38 Direction BACK Frequency 12.0 giving AWT of 2.5 minutes

Route 38 Direction BACK Frequency 12.0 giving AWT of 2.5 minutes

Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes

Route 19 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes

Route 19 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes

Route 243 Direction BACK Frequency 11.0 giving AWT of 2.73 minutes

Route 243 Direction OUT Frequency 11.0 giving AWT of 2.73 minutes

Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 55 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 55 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Stop HIGH HOLBORN PROCTOR ST

Walk time to stop from POI is 7.26 minutes

Walk distance to stop from POI is 580.44 metres

Route 242 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes

Route 242 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes

Route 25 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 25 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 25 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 25 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 8 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 8 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 8 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 8 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 521 Direction BACK Frequency 24.0 giving AWT of 1.25 minutes
Route 521 Direction OUT Frequency 27.0 giving AWT of 1.11 minutes

Stop BLOOMSBURY RED LION SQ

Walk time to stop from POI is 5.61 minutes

Walk distance to stop from POI is 448.61 metres

Route 98 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes

Route 98 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes

Stop HOLBORN STATION KINGSWAY

Walk time to stop from POI is 7.04 minutes

Walk distance to stop from POI is 562.85 metres

Route X68 Direction OUT Frequency 4.0 giving AWT of 7.5 minutes

Route 59 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 59 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Route 243 Direction BACK Frequency 11.0 giving AWT of 2.73 minutes

Route 243 Direction OUT Frequency 11.0 giving AWT of 2.73 minutes

Route 68 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 68 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 171 Direction BACK Frequency 7.5 giving AWT of 4.0 minutes

Route 171 Direction OUT Frequency 7.75 giving AWT of 3.87 minutes

Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 168 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Route 168 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 188 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Route 188 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Route 521 Direction OUT Frequency 27.0 giving AWT of 1.11 minutes

Route 521 Direction BACK Frequency 24.0 giving AWT of 1.25 minutes

Stop S'HAMPTON ROW T'BALDS RD

Walk time to stop from POI is 2.98 minutes

Walk distance to stop from POI is 238.74 metres

Route X68 Direction OUT Frequency 4.0 giving AWT of 7.5 minutes

Route 59 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Route 59 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 68 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Route 68 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 168 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 188 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 188 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Stop BLOOMSBURY SQUARE

Walk time to stop from POI is 4.83 minutes

Walk distance to stop from POI is 386.36 metres

Route 38 Direction BACK Frequency 12.0 giving AWT of 2.5 minutes
Route 38 Direction BACK Frequency 12.0 giving AWT of 2.5 minutes
Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes
Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes
Route 19 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 19 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 98 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 242 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 171 Direction BACK Frequency 7.5 giving AWT of 4.0 minutes
Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 55 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 55 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 8 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 8 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes

Stop HIGH HOLBORN NEWTON ST

Walk time to stop from POI is 7.72 minutes

Walk distance to stop from POI is 617.8 metres

Route 98 Direction BACK Frequency 10.0 giving AWT of 3.0 minutes
Route 242 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 1 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 25 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 25 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 8 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 8 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes

Stop BLOOMSBURY WAY CONTRA-FLOW BUS LANE

Walk time to stop from POI is 7.44 minutes

Walk distance to stop from POI is 594.89 metres

Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes
Route 38 Direction OUT Frequency 12.0 giving AWT of 2.5 minutes

Route 19 Direction OUT Frequency 10.0 giving AWT of 3.0 minutes
Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 55 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes

Stop TAVISTOCK SQUARE

Walk time to stop from POI is 6.7 minutes

Walk distance to stop from POI is 536.15 metres

Route 59 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 59 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

Stop RUSSELL SQUARE STH SIDE

Walk time to stop from POI is 1.67 minutes

Walk distance to stop from POI is 133.33 metres

Route X68 Direction OUT Frequency 4.0 giving AWT of 7.5 minutes
Route 7 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 188 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes

Stop SOUTHAMPTON RW RUSSELL S

Walk time to stop from POI is 0.5 minutes

Walk distance to stop from POI is 39.94 metres

Route 59 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 188 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Stop RUSSELL SQ NTH/WOBURN PL

Walk time to stop from POI is 2.88 minutes

Walk distance to stop from POI is 230.44 metres

Route 59 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 59 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 7 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 7 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 168 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 188 Direction OUT Frequency 8.0 giving AWT of 3.75 minutes
Route 188 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes

Stop GT RUSSELL ST MUSEUM ST

Walk time to stop from POI is 6.72 minutes
Walk distance to stop from POI is 537.88 metres
Stop BRITISH MUSEUM
Walk time to stop from POI is 4.71 minutes
Walk distance to stop from POI is 377.04 metres
Route 7 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes
Route 7 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Stop MONTAGUE ST RUSSELL SQ
Walk time to stop from POI is 3.0 minutes
Walk distance to stop from POI is 239.91 metres
Route 7 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Stop WOBURN PLACE CORAM ST
Walk time to stop from POI is 4.93 minutes
Walk distance to stop from POI is 394.19 metres
Route 59 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 68 Direction OUT Frequency 9.0 giving AWT of 3.33 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 91 Direction BACK Frequency 8.0 giving AWT of 3.75 minutes
Route 168 Direction BACK Frequency 9.0 giving AWT of 3.33 minutes

TATs for this mode

Route 38 Stop BLOOMSBURY SQUARE TAT 9.33 minutes EDF 3.22
Route 19 Stop BLOOMSBURY SQUARE TAT 9.83 minutes EDF 3.05
Route 243 Stop CONWAY HALL TAT 10.93 minutes EDF 2.74
Route 55 Stop BLOOMSBURY SQUARE TAT 10.16 minutes EDF 2.95
Route 242 Stop BLOOMSBURY SQUARE TAT 9.83 minutes EDF 3.05
Route 25 Stop HIGH HOLBORN PROCTOR ST TAT 13.01 minutes EDF 2.31
Route 8 Stop BLOOMSBURY SQUARE TAT 9.83 minutes EDF 3.05
Route 521 Stop HOLBORN STATION KINGSWAY TAT 10.15 minutes EDF 2.96
Route 98 Stop BLOOMSBURY SQUARE TAT 9.83 minutes EDF 3.05
Route X68 Stop RUSSELL SQUARE STH SIDE TAT 11.17 minutes EDF 2.69
Route 59 Stop SOUTHAMPTON RW RUSSELL S TAT 5.83 minutes EDF 5.14
Route 68 Stop SOUTHAMPTON RW RUSSELL S TAT 5.83 minutes EDF 5.14
Route 91 Stop SOUTHAMPTON RW RUSSELL S TAT 5.83 minutes EDF 5.14
Route 171 Stop BLOOMSBURY SQUARE TAT 10.83 minutes EDF 2.77
Route 1 Stop BLOOMSBURY SQUARE TAT 10.58 minutes EDF 2.84
Route 168 Stop SOUTHAMPTON RW RUSSELL S TAT 5.83 minutes EDF 5.14
Route 188 Stop SOUTHAMPTON RW RUSSELL S TAT 6.25 minutes EDF 4.8
Route 7 Stop RUSSELL SQUARE STH SIDE TAT 7.0 minutes EDF 4.29

Best EDF is 5.14

Half of all other EDFs is 29.6

AI for this mode is 34.74

Underground Services

Reliability factor for this mode is .75

Maximum walk time for this mode is 12 minutes

Maximum walk distance for this mode is 960.0 metres

Stop Holborn

Walk time to stop from POI is 6.49 minutes

Walk distance to stop from POI is 519.38 metres

Route Central Line Grange Hill to North Acton Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Cockfosters to Rayners Lane Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
Route Central Line Epping to West Ruislip Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
Route Central Line Loughton to White City Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Heathrow T5 to Cockfosters Direction E/B Frequency 6.0 giving AWT of 5.0 minutes
Route Piccadilly Line Uxbridge to Cockfosters Direction E/B Frequency 2.7 giving AWT of 11.11 minutes
Route Central Line White City to Loughton Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line West Ruislip to Epping Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
Route Central Line Ealing Broadway to Newbury Park Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line White City to Newbury Park Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Epping to North Acton Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line Debden to Northolt Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Rayners Lane to Oakwood Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Cockfosters to Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Arnos Grove to Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line Hainault to Ruislip Gardens Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Hainault to White City Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Piccadilly Line Ruislip to Arnos Grove Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
Route Piccadilly Line Northfields to Arnos Grove Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Rayners Lane to Cockfosters Direction E/B Frequency 2.7 giving AWT of 11.11 minutes
Route Central Line Northolt to Epping Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line White City to Hainault Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Cockfosters to Heathrow Terminal 4 Direction W/B Frequency 6.0 giving AWT of 5.0 minutes
Route Central Line North Acton to Newbury Park Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Cockfosters to Uxbridge Direction W/B Frequency 2.0 giving AWT of 15.0 minutes
Route Central Line Hainault to West Ruislip Direction W/B Frequency 3.3 giving AWT of 9.09 minutes
Route Central Line Loughton to West Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Newbury Park to West Ruislip Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Newbury Park to West Ruislip Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line West Ruislip to Debden Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line North Acton to Loughton Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Debden to West Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line West Ruislip to Loughton Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Ruislip Gardens to Hainault Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line North Acton to Hainault Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line West Ruislip to Newbury Park Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Hainault to North Acton Direction W/B Frequency 1.0 giving AWT of 30.0 minutes

Route Central Line Hainault to Northolt Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Piccadilly Line Arnos Grove to Rayners Lane Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Central Line Epping to White City Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Piccadilly Line Uxbridge to Arnos Grove Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line Ealing Broadway to Epping Direction E/B Frequency 4.0 giving AWT of 7.5 minutes
 Route Central Line Ealing Broadway to Hainault Direction E/B Frequency 4.7 giving AWT of 6.38 minutes
 Route Central Line Epping to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Piccadilly Line Uxbridge to Oakwood Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Epping to Ruislip Gardens Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Piccadilly Line Arnos Grove to Uxbridge Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Central Line Newbury Park to White City Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Piccadilly Line Heathrow Terminal 4 to Cockfosters Direction E/B Frequency 4.0 giving AWT of 7.5 minutes
 Route Central Line Epping to Ealing Broadway Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
 Route Central Line Loughton to Ealing Broadway Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Ruislip Gardens to Loughton Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Ruislip Gardens to Epping Direction E/B Frequency 1.7 giving AWT of 17.65 minutes
 Route Central Line West Ruislip to Grange Hill Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line West Ruislip to Hainault Direction E/B Frequency 3.0 giving AWT of 10.0 minutes
 Route Central Line Northolt to Hainault Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Piccadilly Line Cockfosters to Heathrow T5 Direction W/B Frequency 6.0 giving AWT of 5.0 minutes
 Route Central Line Ruislip Gardens to Newbury Park Direction E/B Frequency 1.7 giving AWT of 17.65 minutes
 Route Piccadilly Line Oakwood to Rayners Lane Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Piccadilly Line Oakwood to Uxbridge Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line Grange Hill to White City Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Piccadilly Line Heathrow Terminal 4 to Arnos Grove Direction E/B Frequency 2.0 giving AWT of 15.0 minutes
 Route Piccadilly Line Rayners Lane to Arnos Grove Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Piccadilly Line Ruislip to Cockfosters Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Central Line Debden to Ealing Broadway Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line North Acton to Epping Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Piccadilly Line Arnos Grove to Northfields Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
 Route Central Line Grange Hill to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Loughton to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Piccadilly Line Oakwood to Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line Debden to Ruislip Gardens Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Grange Hill to West Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Ealing Broadway to Debden Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Hainault to Ealing Broadway Direction W/B Frequency 5.7 giving AWT of 5.26 minutes
 Route Central Line Grange Hill to Ealing Broadway Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line White City to Epping Direction E/B Frequency 0.7 giving AWT of 42.86 minutes

Stop Russell Square

Walk time to stop from POI is 4.04 minutes

Walk distance to stop from POI is 323.58 metres

Route Piccadilly Line Cockfosters to Rayners Lane Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Piccadilly Line Cockfosters to Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Piccadilly Line Cockfosters to Uxbridge Direction W/B Frequency 2.0 giving AWT of 15.0 minutes
 Route Piccadilly Line Cockfosters to Heathrow T5 Direction W/B Frequency 6.0 giving AWT of 5.0 minutes
 Route Piccadilly Line Arnos Grove to Northfields Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
 Route Piccadilly Line Arnos Grove to Uxbridge Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Piccadilly Line Oakwood to Uxbridge Direction W/B Frequency 0.7 giving AWT of 42.86 minutes

Route Piccadilly Line Arnos Grove to Rayners Lane Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
Route Piccadilly Line Oakwood to Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Ruislip to Arnos Grove Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
Route Piccadilly Line Oakwood to Rayners Lane Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Rayners Lane to Arnos Grove Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
Route Piccadilly Line Cockfosters to Heathrow Terminal 4 Direction W/B Frequency 6.0 giving AWT of 5.0 minutes
Route Piccadilly Line Uxbridge to Oakwood Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Heathrow Terminal 4 to Arnos Grove Direction E/B Frequency 2.0 giving AWT of 15.0 minutes
Route Piccadilly Line Uxbridge to Arnos Grove Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Heathrow T5 to Cockfosters Direction E/B Frequency 6.0 giving AWT of 5.0 minutes
Route Piccadilly Line Uxbridge to Cockfosters Direction E/B Frequency 2.7 giving AWT of 11.11 minutes
Route Piccadilly Line Rayners Lane to Oakwood Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Piccadilly Line Arnos Grove to Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Piccadilly Line Northfields to Arnos Grove Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Piccadilly Line Heathrow Terminal 4 to Cockfosters Direction E/B Frequency 4.0 giving AWT of 7.5 minutes
Route Piccadilly Line Ruislip to Cockfosters Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
Route Piccadilly Line Rayners Lane to Cockfosters Direction E/B Frequency 2.7 giving AWT of 11.11 minutes

Stop Tottenham Court Road

Walk time to stop from POI is 11.6 minutes

Walk distance to stop from POI is 928.29 metres

Route Central Line Loughton to West Ruislip Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Grange Hill to White City Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line White City to Epping Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line North Acton to Epping Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Ealing Broadway to Hainault Direction E/B Frequency 4.7 giving AWT of 6.38 minutes
Route Northern Line Mill Hill East to Kennington Direction S/B Frequency 4.3 giving AWT of 6.98 minutes
Route Northern Line Edgware to Kennington Direction S/B Frequency 1.3 giving AWT of 23.08 minutes
Route Central Line Hainault to North Acton Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line Grange Hill to North Acton Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Hainault to Northolt Direction W/B Frequency 1.3 giving AWT of 23.08 minutes
Route Central Line Debden to Northolt Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Hainault to Ruislip Gardens Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Debden to Ruislip Gardens Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Newbury Park to White City Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Northern Line Kennington to Edgware Direction N/B Frequency 5.0 giving AWT of 6.0 minutes
Route Central Line White City to Loughton Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line North Acton to Loughton Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Ealing Broadway to Epping Direction E/B Frequency 4.0 giving AWT of 7.5 minutes
Route Central Line North Acton to Hainault Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Ruislip Gardens to Newbury Park Direction E/B Frequency 1.7 giving AWT of 17.65 minutes
Route Central Line Grange Hill to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Epping to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Loughton to Northolt Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Newbury Park to West Ruislip Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
Route Central Line Epping to White City Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
Route Central Line Grange Hill to Ealing Broadway Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
Route Central Line West Ruislip to Loughton Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
Route Northern Line Morden to High Barnet Direction N/B Frequency 3.7 giving AWT of 8.11 minutes
Route Central Line Epping to Ruislip Gardens Direction W/B Frequency 0.3 giving AWT of 100.0 minutes

Route Central Line Debden to West Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Ealing Broadway to Debden Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Hainault to Ealing Broadway Direction W/B Frequency 5.7 giving AWT of 5.26 minutes
 Route Central Line Debden to Ealing Broadway Direction W/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line West Ruislip to Epping Direction E/B Frequency 1.3 giving AWT of 23.08 minutes
 Route Central Line Ealing Broadway to Newbury Park Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line Newbury Park to West Ruislip Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Loughton to White City Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line West Ruislip to Debden Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Epping to Ealing Broadway Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
 Route Northern Line Kennington to Mill Hill East Direction N/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line West Ruislip to Hainault Direction E/B Frequency 3.0 giving AWT of 10.0 minutes
 Route Central Line Ruislip Gardens to Hainault Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Northolt to Hainault Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line West Ruislip to Newbury Park Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line North Acton to Newbury Park Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Epping to North Acton Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Hainault to West Ruislip Direction W/B Frequency 3.3 giving AWT of 9.09 minutes
 Route Northern Line Morden to Edgware Direction N/B Frequency 4.3 giving AWT of 6.98 minutes
 Route Northern Line High Barnet to Kennington Direction S/B Frequency 5.4 giving AWT of 5.56 minutes
 Route Central Line White City to Newbury Park Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Epping to West Ruislip Direction W/B Frequency 2.3 giving AWT of 13.04 minutes
 Route Central Line Hainault to White City Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Central Line Loughton to Ealing Broadway Direction W/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Ruislip Gardens to Loughton Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line Northolt to Epping Direction E/B Frequency 0.3 giving AWT of 100.0 minutes
 Route Central Line White City to Hainault Direction E/B Frequency 0.7 giving AWT of 42.86 minutes
 Route Central Line Grange Hill to West Ruislip Direction W/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Northern Line Morden to Mill Hill East Direction N/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Northern Line Edgware to Morden Direction S/B Frequency 8.3 giving AWT of 3.61 minutes
 Route Central Line Ruislip Gardens to Epping Direction E/B Frequency 1.7 giving AWT of 17.65 minutes
 Route Central Line West Ruislip to Grange Hill Direction E/B Frequency 1.0 giving AWT of 30.0 minutes
 Route Northern Line Kennington to High Barnet Direction N/B Frequency 4.7 giving AWT of 6.38 minutes

TATs for this mode

Route Central Line Grange Hill to North Acton Stop Holborn TAT 107.24 minutes EDF 0.28
 Route Piccadilly Line Rayners Lane to Cockfosters Stop Russell Square TAT 15.91 minutes EDF 1.89
 Route Central Line Epping to West Ruislip Stop Holborn TAT 20.29 minutes EDF 1.48
 Route Central Line White City to Loughton Stop Holborn TAT 37.24 minutes EDF 0.81
 Route Piccadilly Line Cockfosters to Heathrow T5 Stop Russell Square TAT 9.79 minutes EDF 3.06
 Route Piccadilly Line Uxbridge to Cockfosters Stop Russell Square TAT 15.91 minutes EDF 1.89
 Route Central Line Ealing Broadway to Newbury Park Stop Holborn TAT 50.1 minutes EDF 0.6
 Route Central Line White City to Newbury Park Stop Holborn TAT 107.24 minutes EDF 0.28
 Route Central Line Epping to North Acton Stop Holborn TAT 37.24 minutes EDF 0.81
 Route Central Line Debden to Northolt Stop Holborn TAT 50.1 minutes EDF 0.6
 Route Piccadilly Line Oakwood to Rayners Lane Stop Russell Square TAT 47.65 minutes EDF 0.63
 Route Piccadilly Line Ruislip to Cockfosters Stop Russell Square TAT 27.87 minutes EDF 1.08
 Route Piccadilly Line Ruislip to Arnos Grove Stop Russell Square TAT 27.87 minutes EDF 1.08
 Route Central Line Ruislip Gardens to Hainault Stop Holborn TAT 37.24 minutes EDF 0.81

Route Central Line Hainault to White City Stop Holborn TAT 37.24 minutes EDF 0.81
Route Piccadilly Line Arnos Grove to Northfields Stop Russell Square TAT 17.84 minutes EDF 1.68
Route Central Line Northolt to Epping Stop Holborn TAT 107.24 minutes EDF 0.28
Route Piccadilly Line Cockfosters to Heathrow Terminal 4 Stop Russell Square TAT 9.79 minutes EDF 3.06
Route Central Line North Acton to Newbury Park Stop Holborn TAT 107.24 minutes EDF 0.28
Route Central Line Hainault to West Ruislip Stop Holborn TAT 16.33 minutes EDF 1.84
Route Central Line Loughton to West Ruislip Stop Holborn TAT 50.1 minutes EDF 0.6
Route Central Line West Ruislip to Newbury Park Stop Holborn TAT 50.1 minutes EDF 0.6
Route Central Line Ruislip Gardens to Newbury Park Stop Holborn TAT 24.89 minutes EDF 1.21
Route Central Line West Ruislip to Debden Stop Holborn TAT 37.24 minutes EDF 0.81
Route Central Line North Acton to Loughton Stop Holborn TAT 50.1 minutes EDF 0.6
Route Central Line Hainault to North Acton Stop Holborn TAT 37.24 minutes EDF 0.81
Route Central Line Hainault to Northolt Stop Holborn TAT 30.32 minutes EDF 0.99
Route Piccadilly Line Arnos Grove to Rayners Lane Stop Russell Square TAT 27.87 minutes EDF 1.08
Route Central Line Epping to White City Stop Holborn TAT 50.1 minutes EDF 0.6
Route Piccadilly Line Arnos Grove to Uxbridge Stop Russell Square TAT 27.87 minutes EDF 1.08
Route Central Line Ealing Broadway to Epping Stop Holborn TAT 14.74 minutes EDF 2.03
Route Central Line Hainault to Ealing Broadway Stop Holborn TAT 12.51 minutes EDF 2.4
Route Piccadilly Line Oakwood to Uxbridge Stop Russell Square TAT 47.65 minutes EDF 0.63
Route Central Line Ruislip Gardens to Epping Stop Holborn TAT 24.89 minutes EDF 1.21
Route Central Line Loughton to Ealing Broadway Stop Holborn TAT 107.24 minutes EDF 0.28
Route Central Line Ruislip Gardens to Loughton Stop Holborn TAT 107.24 minutes EDF 0.28
Route Central Line West Ruislip to Grange Hill Stop Holborn TAT 37.24 minutes EDF 0.81
Route Central Line Grange Hill to White City Stop Holborn TAT 50.1 minutes EDF 0.6
Route Piccadilly Line Heathrow Terminal 4 to Arnos Grove Stop Russell Square TAT 19.79 minutes EDF 1.52
Route Central Line Debden to Ealing Broadway Stop Holborn TAT 50.1 minutes EDF 0.6
Route Central Line Grange Hill to Northolt Stop Holborn TAT 107.24 minutes EDF 0.28
Route Central Line Loughton to Northolt Stop Holborn TAT 107.24 minutes EDF 0.28
Route Piccadilly Line Oakwood to Ruislip Stop Russell Square TAT 47.65 minutes EDF 0.63
Route Central Line Debden to Ruislip Gardens Stop Holborn TAT 107.24 minutes EDF 0.28
Route Central Line Grange Hill to Ealing Broadway Stop Holborn TAT 37.24 minutes EDF 0.81
Route Northern Line Mill Hill East to Kennington Stop Tottenham Court Road TAT 19.33 minutes EDF 1.55
Route Northern Line Kennington to Edgware Stop Tottenham Court Road TAT 18.35 minutes EDF 1.63
Route Northern Line Morden to High Barnet Stop Tottenham Court Road TAT 20.46 minutes EDF 1.47
Route Northern Line Edgware to Morden Stop Tottenham Court Road TAT 15.97 minutes EDF 1.88
Route Northern Line High Barnet to Kennington Stop Tottenham Court Road TAT 17.91 minutes EDF 1.68
Route Northern Line Morden to Mill Hill East Stop Tottenham Court Road TAT 42.35 minutes EDF 0.71

Best EDF is 3.06

Half of all other EDFs is 25.02

AI for this mode is 28.08

Rail Services

Reliability factor for this mode is .75

Maximum walk time for this mode is 12 minutes

Maximum walk distance for this mode is 960.0 metres

** No stops found within buffer for this POI

Total AI for this POI is 62.82. X: 530276, Y: 181928.

PTAL Rating is 6b.