

**34A - 36 KILBURN HIGH ROAD**

**CAMDEN**

**TRAVEL PLAN**

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Date: 26<sup>th</sup> July 2007

Report no: GD07500



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**Report no:** GD07500

**Date:** 26<sup>th</sup> July 2007

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- 2.1 Public Transport and Accessibility Plan

## Appendices

- A Bus and Tube Timetables
- B PTAL Calculation

# 1 INTRODUCTION

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- 1.1 BTP Hyder has been instructed by Gordonsbury Asset & Project Managers to prepare a Travel Plan (TP) to follow planning permission being granted for the proposed development at 34A – 36 Kilburn High Road, London, NW6.
- 1.2 The plan sets out proposals which aim to:
- Reduce the number of trips to and from the site, especially by car;
  - Increase the proportion of public transport, walking and cycling trips; and
  - Improve road safety and security at and around the site; particularly for pedestrians and cyclists.
- 1.3 The development proposals involve a change of use from hostel to aparthotel with 38 self-contained suites split between the first, second and third floors and 12 residential flats on the fourth floor.
- 1.4 **Figure 1.1** shows the location of the site from which it can be seen that the frontage is on the east side of Kilburn High Road and south of the junction with Springfield Lane. Access to retail use at ground level is on Kilburn High Road while access for leisure use and accommodation is on the frontage to Springfield Lane.

## **Scope of the Travel Plan**

- 1.5 Following this introduction, the report is structured in the following manner.

**Section 2.0, Site Setting:** Describes the development site, the highway network in the vicinity and other features pertinent to the site.

**Section 3.0, Travel Plan Objectives and Measures:** Sets out potential goals and investigates possible ways and means of reducing the use of the private car.

**Section 4.0, Travel Plan Recommendations and Conclusions:** Provides a summary of the report and draws together its conclusions.

## 2 SITE SETTING

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2.1 As illustrated in **Figure 1.1** it can be seen that the sites eastern frontage is to Kilburn High Road. The road is subject to a 30mph speed limit and has street lighting.

2.2 The site lies in an urban area, in close proximity to school facilities and employment and retail shopping areas. The existing road network, public transport services and walking and cycling facilities for the development are described below.

### **Road Network**

2.3 The A5, of which Kilburn High Road is a section, provides links into central and outer London and the M1 and M25 motorways. The carriageway measures approximately 15m wide with the eastern and western footways approximately 3m wide.

2.4 Springfield Lane is a one-way road from the junction with Kilburn High Road and is primarily mixed use in nature from this point.

### **Public Transport**

#### **Bus Service**

2.5 The bus stops in operation in the vicinity of the site are shown at **Figure 2.1** and it can be seen that the nearest bus stops are located approximately 70m from the proposed development along Kilburn High Road.

2.6 Details of each of the bus services within the vicinity of the site are presented at **Appendix A** and are outlined in **Table 2.1** below. This indicates that the site benefits from a good frequency of bus services.

**Table 2.1 - Existing Bus Service frequency per hour**

Number	Time Period	Monday – Friday	Saturday	Sunday
16 Victoria Station – Cricklewood Bus Garage	Peaks Daytime Evening	9 9 6	9 9 6	6 6 6
N16 Victoria Station – Station Road Edgware / Edgware	Peaks Daytime Evening	N/A N/A 3	N/A N/A 3	N/A N/A 3
31 Caxton Rd Shepherd’s Bush Green – Camden Town Station	Peaks Daytime Evening	12 12 7	10 9 6.5	7 9 6.5
32 Kilburn Park Station – Station Road/Edgware	Peaks Daytime Evening	7.5 7.5 5.5	7.5 7.5 5	4 5.5 5.5
98 Holborn – Willesden Bus Garage	Peaks Daytime Evening	10 10 6.5	7 9 7	7.5 7.5 7.5
N98 Holborn – Stanmore Station	Peaks Daytime Evening	N/A N/A 4.5	N/A N/A 4.5	N/A N/A 4.5
206 Kilburn Park Station – St Raphael’s / Pitfield Way	Peaks Daytime Evening	4 4 3	4 4 3	3 3 2
316 Oakworth Road – Brent Park Tesco	Peaks Daytime Evening	7.5 7.5 6	7.5 7.5 6	4 4 4
328 Chelsea World’s End – Golders Green Station	Peaks Daytime Evening	12 12 7.5	12 12 7.5	6 6 6

## Rail Services

2.7 Kilburn High Road Rail Station is situated within Travel Zone 2, 60m from the site, providing links to National Rail at Euston and Watford Junction. Brondesbury Station is 1125m from the site and is on the North London Line providing access to Woolwich, Stratford, Willesden Junction and Richmond. Kilburn Park Station is located 320m from the site and is on the London Underground Bakerloo Line. Kilburn Station is on the Jubilee Line beyond Brondesbury Station. Both stations experience frequencies of between 2 – 5 minutes.

### **Public Transport Accessibility Level (PTAL)**

- 2.8 PTAL calculations are a detailed and accurate measure of the accessibility of a point to the public transport network, taking into account walk access time and service availability. A point is given an Accessibility Index (AI) which is then converted into an equivalent PTAL score between 1 (low accessibility) and 6 (highest accessibility). It can be seen from the calculation of the PTAL attached at **Appendix B** that the site falls within the PTAL band of 6. This means that the potential occupants of the development will have excellent access to public transport facilities.

### **Pedestrian and cycle access**

- 2.9 The proposed layout has been designed in order to accommodate 28 secure cycle parking spaces. 12 are intended for the residential properties (1 per unit) and the other 16 are designated for use by the aparthotel (approximately 1 per 2.5 units).



## 3 TRAVEL PLAN OBJECTIVES & MEASURES

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### **Objectives**

- 3.1 Essentially, the objectives of the Travel Plan are to reduce the number of trips to and from the site and increase the proportion of trips by alternative sustainable transport modes, i.e. walking, cycling and public transport. Increasing the awareness of these 'sustainable' transport options is an important related aim.

### **Measures**

- 3.2 Given the scale and nature of the development there are clearly limits on the measures that can reasonably be introduced to minimise car trips by residents. Nevertheless, there are features that can be introduced to encourage travel by non-car modes and these are included in the measures described below.

### **Travel Plan Co-ordinator**

- 3.3 The applicants support the introduction of a Travel Plan (TP) and, if required, will appoint a Travel Plan Co-ordinator. This person will be responsible for managing the TP, raising awareness of the TP amongst residents and visitors, and promoting alternatives to the private car.

### **Pedestrians**

- 3.4 Walking as the main mode of travel should be encouraged for journeys of less than one mile. Walking can be combined with, for example, passenger transport to cover longer distance journeys. The Travel Plan Co-ordinator will encourage residents to walk to and from work and school by:
- promoting discussion of the health benefits of walking (i.e. reduced stress and improved fitness)
  - providing information and advice concerning safe pedestrian routes to public transport and other facilities
  - liaising with the Planning and Highway Authorities to ensure that pedestrian routes are properly maintained
  - organising promotion events such as 'Walk to Work Week'

- 3.5 A plan will be displayed on site to highlight local facilities and routes. The plan will take account of the mobility impaired.

### **Cycling**

- 3.6 The benefits of cycling are similar to those for walking, with improved health and cost savings being the main considerations for users.
- 3.7 A plan will be displayed at prominent locations within the development to highlight local facilities and cycle routes. Copies of the plan will be provided to new residents.
- 3.8 The Travel Plan Co-ordinator will encourage residents to cycle by:
- promoting discussion of the health benefits of cycling (i.e. reduced stress and improved fitness)
  - providing information and advice to residents and visitors on cycle routes to the development
  - encouraging residents to set up a bicycle user group.
  - organising promotion events such as 'Bike to Work Week'.

### **Public Transport**

- 3.9 Public Transport should be regarded as a practical and positive alternative mode to the private car.
- 3.10 A plan will be displayed at prominent locations within the development to show the location of bus stops.

- 3.11 Current bus timetables will also be displayed within the development and the Travel Plan Co-ordinator will maintain a supply of timetables to be made available to residents when appropriate.

### **Travel Pack**

- 3.12 A travel pack containing details of local bus, rail and trams services, cycle routes and local facilities such as shops and doctors' surgeries will be provided to new residents on occupation of the dwellings.

### **Car Sharing/Car Club**

- 3.13 Car sharing involves two or more people travelling together instead of using separate cars.
- 3.14 In liaison with the residents, the Travel Plan Co-ordinator will set up a car sharing scheme including a database of residents willing to take part. All residents will be made aware of the scheme and will be encouraged to participate where appropriate.
- 3.15 The Travel Plan Co-ordinator will explore the possibility of residents joining a car-club. The residents would pay for use of the vehicle if and when they require it.

### **Car Parking**

- 3.16 There are no on site parking facilities planned for this development. This reflects the PTAL rating of the site and the developers commitment to sustainable transport.

### **Awareness Campaigns**

- 3.17 The Travel Plan Co-ordinator, with the active support of the applicants, will be responsible for raising awareness of the TP amongst residents and promoting alternatives to the car.

### **Targets**

- 3.18 Targets for the proportion of journeys by single occupancy cars will be finalised with Camden Council (CC) after a travel survey is carried out twelve weeks after completion and occupation of the development. A questionnaire will be agreed with CC prior to the surveys which will be organised by the Travel Plan Co-ordinator. Realistic targets could be a 5% reduction of car trips in two years, 10% in five years and 15% in ten years.

### **Monitoring**

- 3.19 The Travel Plan Co-ordinator will organise travel questionnaire surveys at yearly intervals. On receipt of the results of each set of surveys the Travel Plan Co-ordinator will carry out a comprehensive annual review of the TP, the purposes of which will be to measure the success of the TP and identify potential for improvements.
- 3.20 For each of the five years after the opening of the development, the results of the monitoring process and the Travel Plan Co-ordinator's review will be made available to CC. The need for modifications to the TP and the form they might take will be assessed and implemented in consultation with the Council.

## 4 TRAVEL PLAN RECOMMENDATIONS AND CONCLUSIONS

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### **Recommendations**

- 4.1 It is recommended that a Travel Plan Co-ordinator is appointed to liaise and agree measures with Camden Council to encourage residents to use sustainable forms of transport.
- 4.2 The Travel Plan Co-ordinator can be the key to the success of a Travel Plan and whilst the precise nature of the position will vary, the co-ordinator should become the main driving force behind the plan. The responsibilities of a travel plan co-ordinator might include:
- Overseeing the development and implementation of the travel plan;
  - Designing and implementing effective marketing and awareness-raising campaigns to promote the travel plan;
  - Setting up, co-ordinating and attending steering groups, working groups etc;
  - Co-ordinating the necessary data collection exercise required to develop the travel plan;
  - Liaising with residents and external organisations, e.g. local authorities, transport operators etc; and
  - Co-ordinating the monitoring programme, including target setting.

### **Conclusions**

- 4.3 The site is well located with respect to public transport facilities with buses and trains within easy walking/cycling distance. The frequencies are also more than sufficient to serve a development of this size.
- 4.4 There are also cycle routes located close by and footways connecting the site to the local amenities.

- 4.5 The Travel Plan Co-ordinator will liaise with residents to encourage the use of sustainable modes of transport.
  
- 4.6 Targets will be agreed with Camden Council then reviewed and checked annually after the plan has been implemented.

## FIGURES

**Figure 1.1**  
**Site Location Plan**



**Figure 2.1**  
**Public Transport and Accessibility Plan**

## APPENDICES

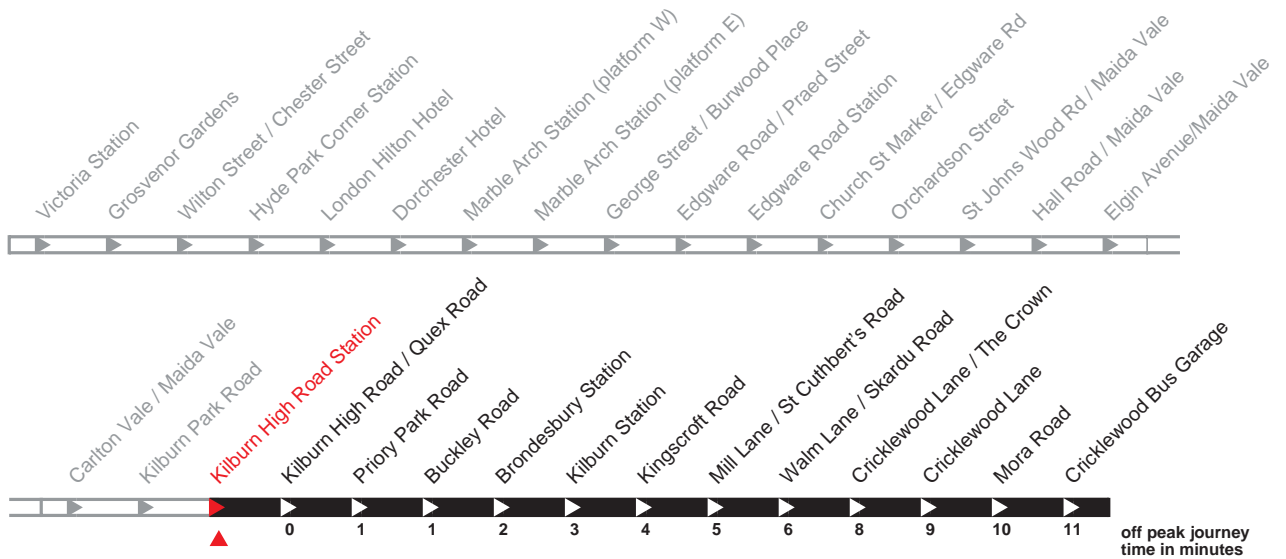
**APPENDIX A**  
**Bus and Tube Timetables**

# London Buses

# 16



Buses towards Cricklewood Bus Garage



## Monday - Friday

First buses	7am to 8pm	8 to 9pm	9pm to midnight	Last buses
06 15	<i>about every</i>	20 04	<i>about every</i>	00 09
06 25	<b>5-9</b>	20 09	<b>8-10</b>	00 21
06 35	<i>minutes</i>	20 14	<i>minutes</i>	00 33
06 45		20 19		00 45
06 55		20 24		00 57
		20 33		
		20 43		
		20 53		

## Saturday (also Good Friday)

First buses	7 to 9am	9 to 10am	10am to 7pm	7pm to midnight	Last buses
06 15	<i>about every</i>	<i>about every</i>	<i>about every</i>	<i>about every</i>	00 09
06 27	<b>10-12</b>	<b>7-10</b>	<b>5-8</b>	<b>7-10</b>	00 21
06 39	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	00 33
06 51					00 45
					00 57

## Sunday and other Public Holidays

First buses	7 to 8am	8am to midnight	Last buses
06 15	<i>about every</i>	<i>about every</i>	00 09
06 30	<b>15</b>	<b>8-12</b>	00 21
06 45	<i>minutes</i>	<i>minutes</i>	00 33
			00 45
			00 57

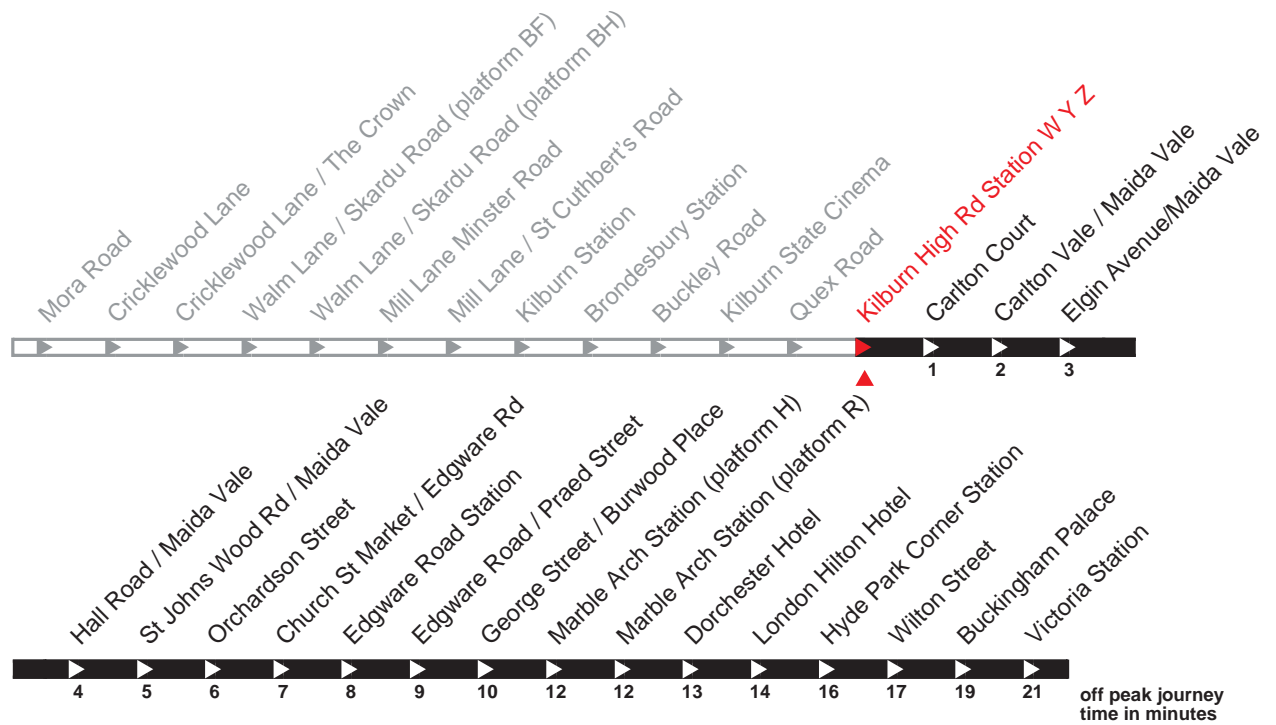
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# London Buses

# 16



## Buses towards Victoria Station



### Monday - Friday

First buses	6am to 7pm	7 to 8pm	8pm to midnight	Last bus
0527	<i>about every</i>	1900	<i>about every</i>	0005
0537	<b>4-8</b>	1906	<b>10-13</b>	
0547	<i>minutes</i>	1910	<i>minutes</i>	
0557		1915		
		1920		
		1930		
		1940		
		1950		

### Saturday (also Good Friday)

First buses	6 to 7am	7 to 9am	9am to 6pm	6 to 7pm	7pm to midnight	Last bus
0527	<i>about every</i>	<i>about every</i>	<i>about every</i>	<i>about every</i>	<i>about every</i>	0005
0539	<b>12</b>	<b>7-10</b>	<b>5-8</b>	<b>7-10</b>	<b>10-13</b>	
0551	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	

### Sunday and other Public Holidays

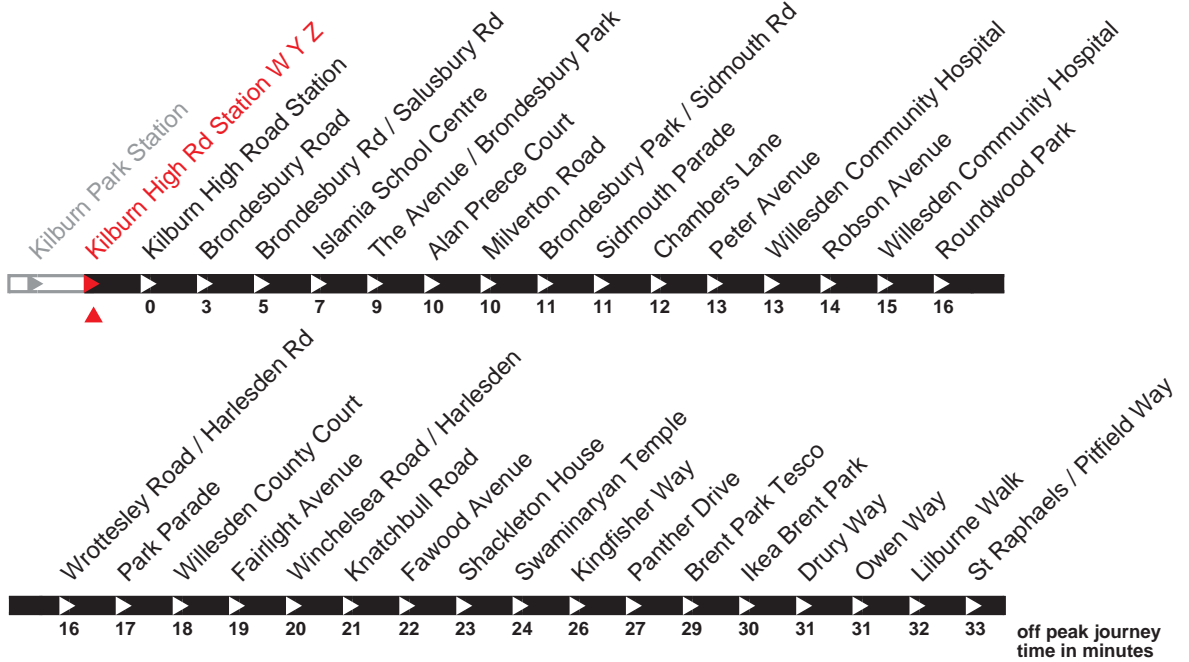
First buses	6 to 7am	7am to midnight	Last bus
0527	<i>about every</i>	<i>about every</i>	0005
0542	<b>15</b>	<b>9-13</b>	
0557	<i>minutes</i>	<i>minutes</i>	

Operated by Metroline for London Buses

# 206



## Buses towards St Raphaels / Pitfield Way



### Monday - Friday

First buses	6 to 9am	9 to 10am	10am to 6pm	6 to 7pm	7 to 8pm	8 to 9pm	9pm to midnight	Last bus
05 25	<i>about every</i>	09 14	<i>about every</i>	18 14	<i>about every</i>	20 05	At these 25 minutes past the hour	00 25
05 45	<b>12-15</b> <i>minutes</i>	09 31 09 46	<b>14-15</b> <i>minutes</i>	18 30 18 45	<b>15</b> <i>minutes</i>	20 25 20 55		

### Saturday (also Good Friday)

First buses	6 to 7am	7 to 8am	8 to 9am	9am to 6pm	6 to 7pm	7 to 8pm	8pm to midnight	Last bus
05 25	06 05	07 05	08 06	<i>about every</i>	18 01	19 10	At these 25 minutes past the hour	00 25
05 45	06 25 06 45	07 25 07 46	08 26 08 46	<b>15</b> <i>minutes</i>	18 16 18 30 18 50	19 30 19 55		

### Sunday and other Public Holidays

First bus	7 to 9am	9 to 10am	10am to 6pm	6 to 7pm	7pm to midnight	Last bus
06 55	At these 25 minutes past the hour	09 25 09 46	At these 06 minutes past the hour	18 06 18 26 18 55	At these 25 minutes past the hour	00 25

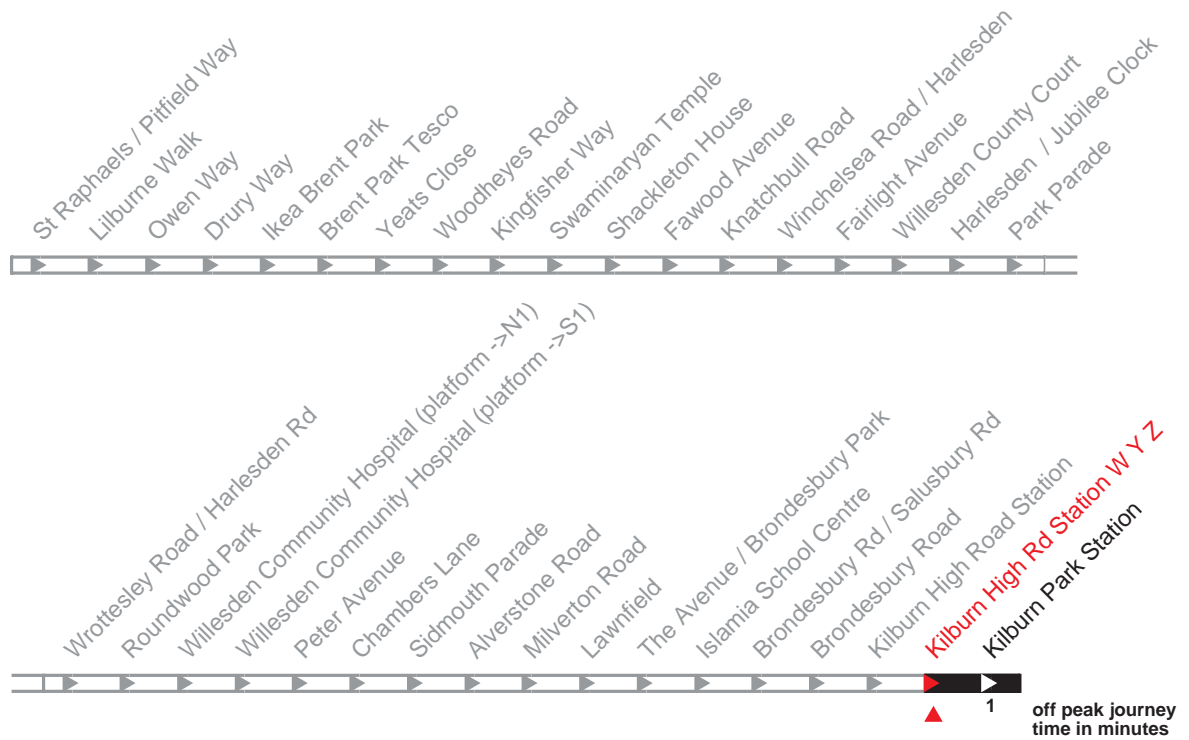
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# London Buses

# 206



## Buses towards Kilburn Park Station



### Monday - Friday

First bus	6 to 7am	7 to 8am	8 to 9am	9am to 3pm	3 to 4pm	4 to 8pm	8 to 9pm	9pm to midnight	Last buses
05 58	06 18	07 09	08 04	<i>about every</i>	15 15	<i>about every</i>	20 06	At these 13	00 13
	06 38	07 29	08 19	<b>12-15</b>	15 32	<b>12-15</b>	20 24	minutes 43	00 43
	06 53	07 49	08 36	<i>minutes</i>	15 47	<i>minutes</i>	20 43	past the	
			08 51					hour	

### Saturday (also Good Friday)

First bus	6 to 9am	9 to 10am	10am to 1pm	1 to 2pm	2 to 7pm	7 to 8pm	8 to 9pm	9pm to midnight	Last buses
05 58	At these 18	09 16	<i>about every</i>	13 03	<i>about every</i>	19 14	20 16	At these 13	00 13
	minutes 38	09 33	<b>15</b>	13 19	<b>13-15</b>	19 34	20 43	minutes 43	00 43
	past the 58	09 48	<i>minutes</i>	13 35	<i>minutes</i>	19 54		past the	
	hour			13 49				hour	

### Sunday and other Public Holidays

First buses	8 to 9am	9am to 6pm	6 to 7pm	7 to 8pm	8 to 9pm	9 to 10pm	10 to 11pm	11pm to midnight	Last buses
07 13	08 13	At these 13	18 13	19 16	20 12	21 13	22 08	23 13	00 13
07 43	08 43	minutes 33	18 33	19 46	20 43	21 38	22 38	23 43	00 43
		past the 53	18 50						
		hour							

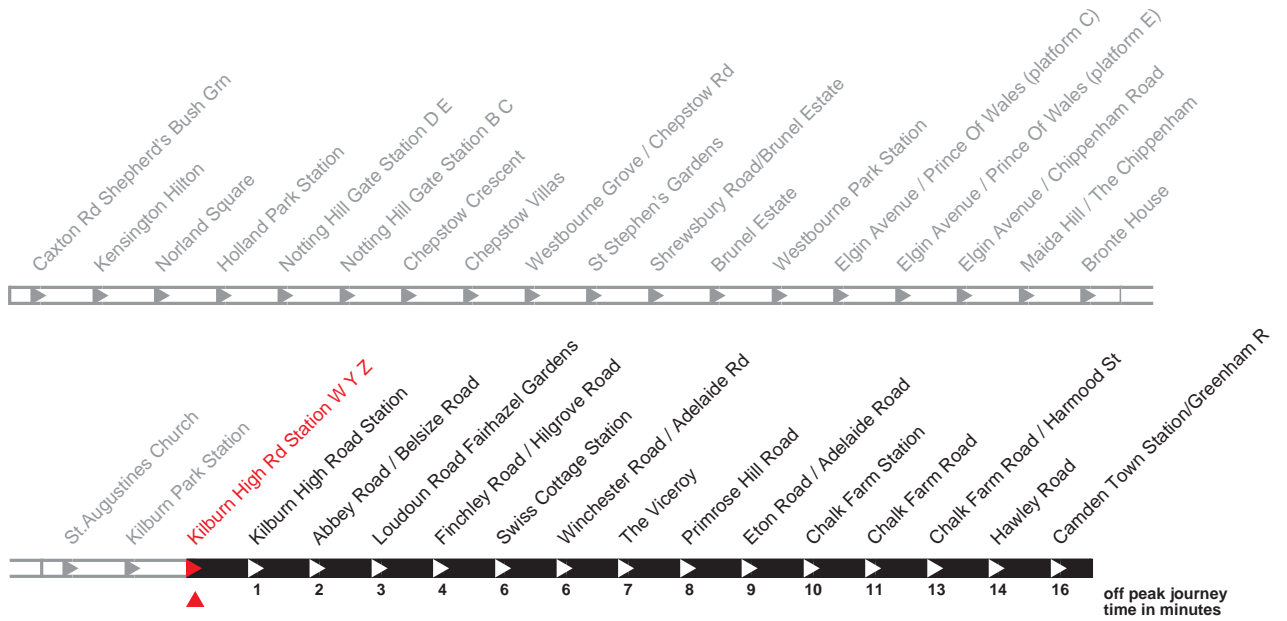
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# London Buses

# 31



Buses towards Camden Town Station/Greenham R



off peak journey time in minutes

## Monday - Friday

First buses	6 to 7am	7am to 8pm	8pm to midnight	Last buses
05 32 05 42 05 52	about every <b>7-10</b> minutes	about every <b>3-7</b> minutes	about every <b>7-10</b> minutes	00 07 00 17 00 27 00 37 00 47 00 57

## Saturday (also Good Friday)

First buses	6 to 8am	8 to 9am	9 to 11am	11am to 8pm	8pm to midnight	Last buses
05 32 05 47	about every <b>10</b> minutes	08 02 08 12 08 20 08 27 08 35 08 42 08 48 08 51 08 54	about every <b>3-6</b> minutes	about every <b>5-8</b> minutes	about every <b>8-10</b> minutes	00 07 00 17 00 27 00 37 00 47 00 57

## Sunday and other Public Holidays

First buses	6 to 7am	7 to 8am	8 to 9am	9am to 8pm	8pm to midnight	Last buses
05 32 05 47	about every <b>15</b> minutes	about every <b>10-12</b> minutes	08 04 08 14 08 19 08 24 08 34 08 39 08 44 08 49 08 54	about every <b>4-8</b> minutes	about every <b>8-10</b> minutes	00 07 00 17 00 27 00 37 00 47 00 57

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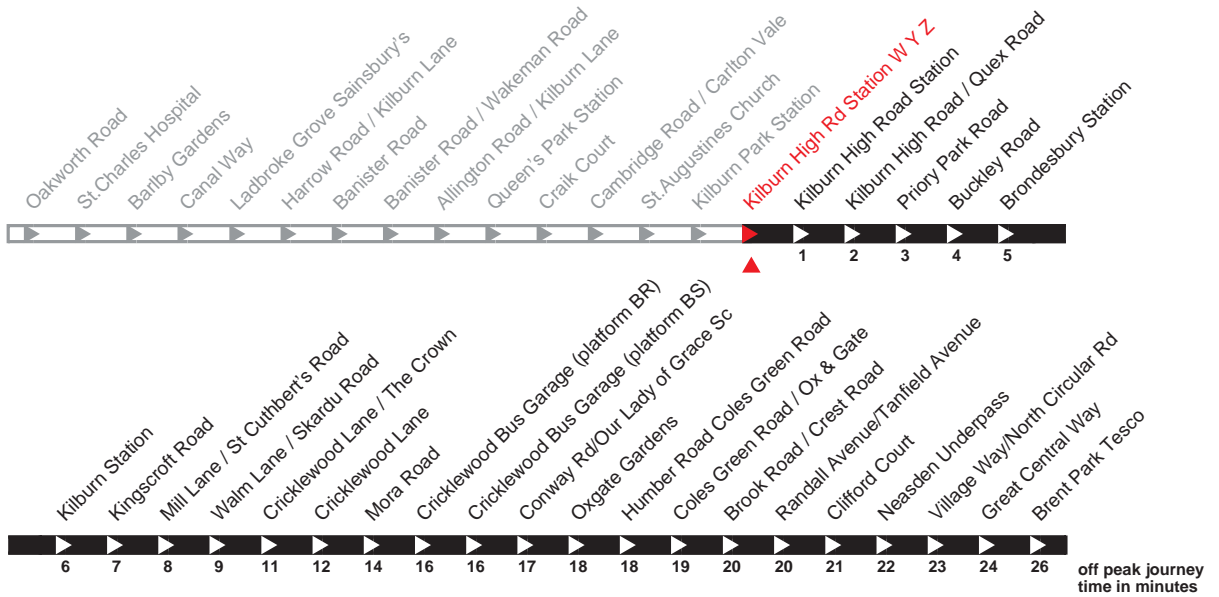


# London Buses

# 316



Buses towards Brent Park Tesco



## Monday - Friday

First buses	6 to 8am	8 to 9am	9am to 8pm	8pm to midnight	Last buses
0534 0554	<i>about every</i> <b>8-12</b> <i>minutes</i>	0801 0802 0810 0818 0826 0834 0842 0850 0858	<i>about every</i> <b>6-10</b> <i>minutes</i>	<i>about every</i> <b>8-12</b> <i>minutes</i>	0011 0023

## Saturday (also Good Friday)

First buses	6 to 7am	7 to 9am	9am to 6pm	6pm to midnight	Last buses
0534 0554	<i>about every</i> <b>15</b> <i>minutes</i>	<i>about every</i> <b>10-12</b> <i>minutes</i>	<i>about every</i> <b>5-9</b> <i>minutes</i>	<i>about every</i> <b>9-12</b> <i>minutes</i>	0011 0023

## Sunday and other Public Holidays

First buses	6 to 7am	7 to 10am	10am to midnight	Last buses
0534 0557	0619 0639 0659	<i>about every</i> <b>11-15</b> <i>minutes</i>	<i>about every</i> <b>10-14</b> <i>minutes</i>	0011 0023

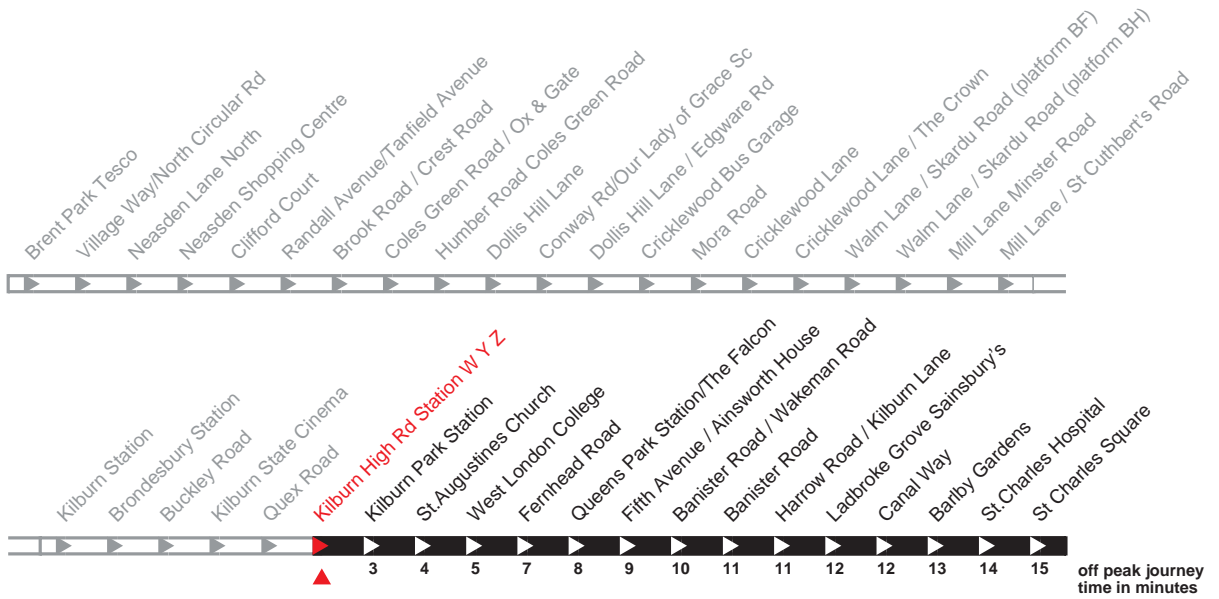
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# London Buses

# 316



Buses towards St Charles Square



## Monday - Friday

First bus	6 to 7am	7 to 11am	11am to 8pm	8pm to midnight	Last buses
0545	<i>about every</i> <b>12-15</b> <i>minutes</i>	<i>about every</i> <b>8-12</b> <i>minutes</i>	<i>about every</i> <b>5-9</b> <i>minutes</i>	<i>about every</i> <b>8-12</b> <i>minutes</i>	0001 0013

## Saturday (also Good Friday)

First bus	6 to 9am	9 to 10am	10am to 7pm	7pm to midnight	Last buses
0545	<i>about every</i> <b>11-15</b> <i>minutes</i>	0901 0914 0926 0934 0942 0951 0959	<i>about every</i> <b>6-9</b> <i>minutes</i>	<i>about every</i> <b>10-12</b> <i>minutes</i>	0001 0013

## Sunday and other Public Holidays

First bus	6 to 7am	7 to 8am	8 to 9am	9 to 10am	10am to midnight	Last buses
0545	0605 0625 0645	0705 0725 0742 0757	<i>about every</i> <b>15</b> <i>minutes</i>	0912 0926 0942 0954	<i>about every</i> <b>10-12</b> <i>minutes</i>	0001 0013

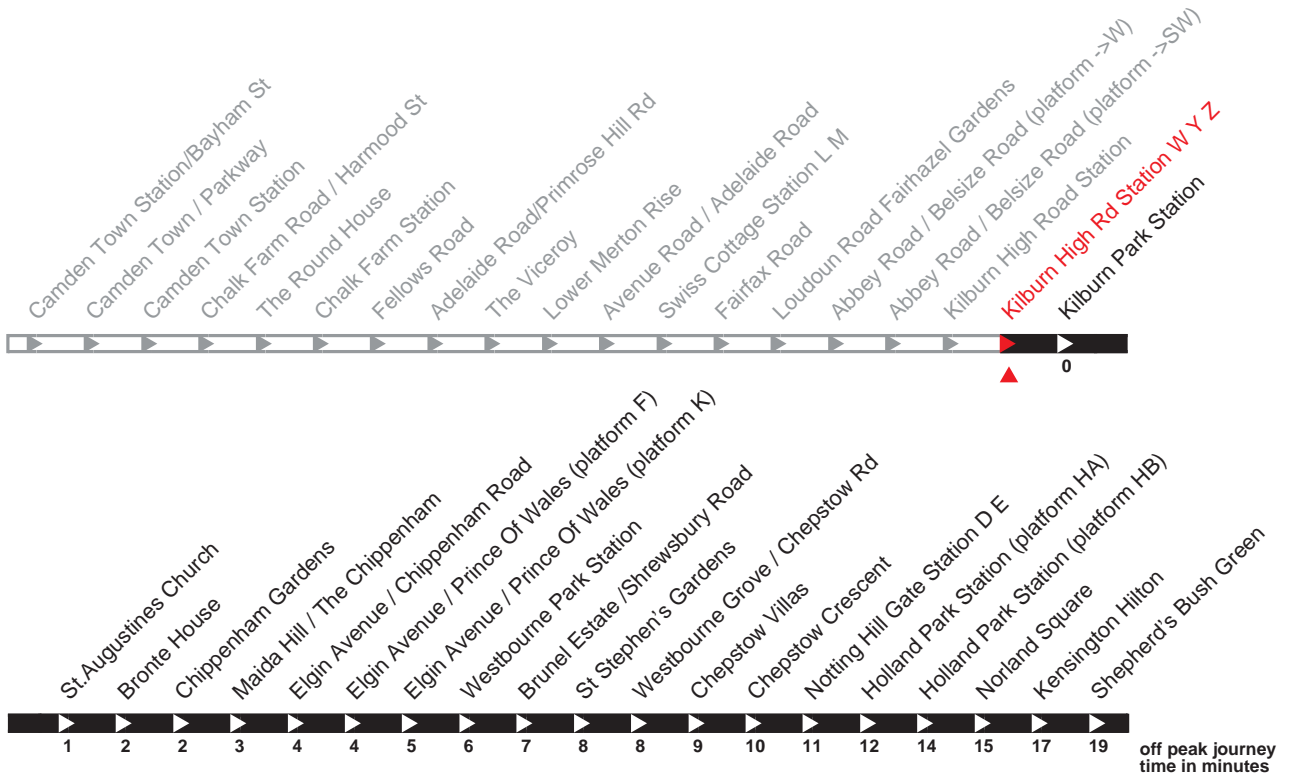
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# London Buses

# 31



## Buses towards Shepherd's Bush Green



### Monday - Friday

First buses	6 to 7am	7 to 8am	8am to midday	midday to 9pm	9pm to midnight	Last buses
05 15 05 30 05 45 05 55	<i>about every</i> <b>6-10</b> <i>minutes</i>	<i>about every</i> <b>5-8</b> <i>minutes</i>	<i>about every</i> <b>3-6</b> <i>minutes</i>	<i>about every</i> <b>5-8</b> <i>minutes</i>	<i>about every</i> <b>7-10</b> <i>minutes</i>	00 07 00 17 00 27 00 37 00 47

Journeys at 11:01 run as far as Westbourne Park Station.

### Saturday (also Good Friday)

First buses	6 to 7am	7 to 9am	9am to 8pm	8pm to midnight	Last buses
05 15 05 30 05 45	06 00 06 15 06 25 06 35 06 45 06 55	<i>about every</i> <b>6-10</b> <i>minutes</i>	<i>about every</i> <b>5-8</b> <i>minutes</i>	<i>about every</i> <b>8-10</b> <i>minutes</i>	00 07 00 17 00 27 00 37 00 47

### Sunday and other Public Holidays

First buses	6 to 7am	7 to 9am	9am to 8pm	8pm to midnight	Last buses
05 15 05 30 05 45	<i>about every</i> <b>14-15</b> <i>minutes</i>	<i>about every</i> <b>7-10</b> <i>minutes</i>	<i>about every</i> <b>5-8</b> <i>minutes</i>	<i>about every</i> <b>8-10</b> <i>minutes</i>	00 07 00 17 00 27 00 37 00 47

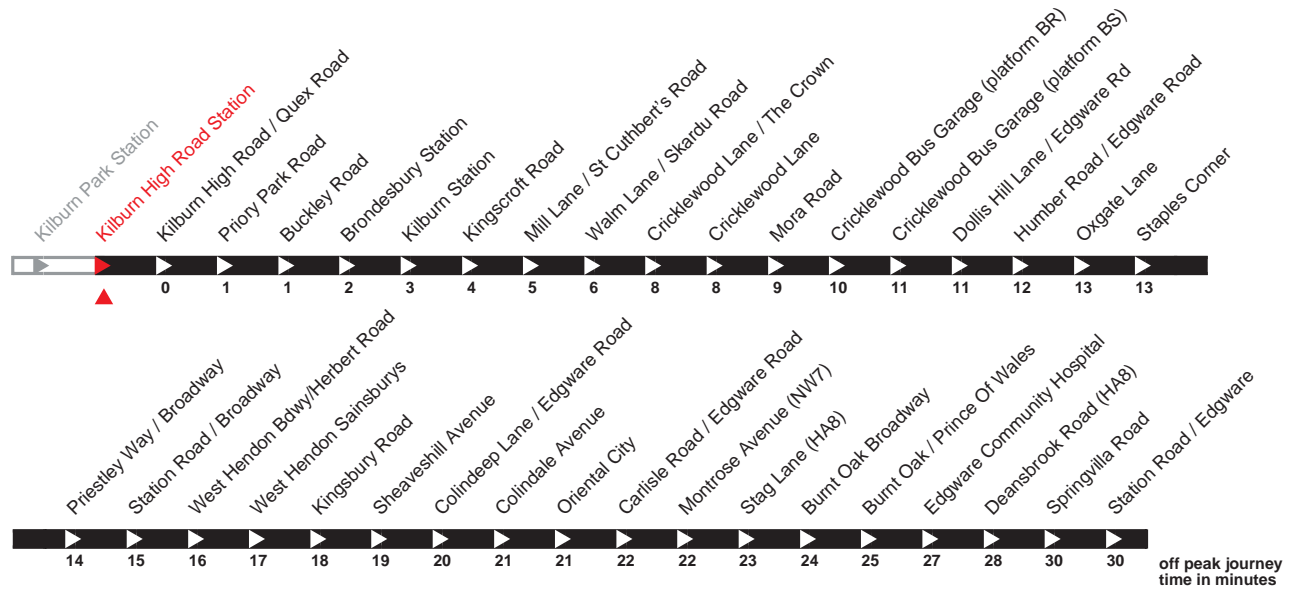
Operated by First for London Buses

# London Buses

# 32



Buses towards Station Road / Edgware



## Monday - Friday

First bus	6 to 7am	7am to 8pm	8pm to midnight	Last buses
0551	about every <b>10-12</b> minutes	about every <b>6-10</b> minutes	about every <b>10-12</b> minutes	0006 0018 0030 0042

Journeys at 05:51, 06:03, 06:15, 06:27, 17:59, 18:07, 18:15, 18:23, 18:31, 18:39, 18:47, 18:55, 19:03, 19:10, 19:18, 19:26, 19:34, 19:42, 19:52, 20:02, 20:12, 20:22, 20:32, 20:42, 20:54, 21:06, 21:18, 21:30, 21:42, 21:54, 22:06, 22:18, 22:30, 22:42, 22:54, 23:06, 23:18, 23:30, 23:42, 23:54, 00:06, 00:18, 00:30, and 00:42 run as far as Springvilla Road.

## Saturday (also Good Friday)

First bus	6 to 7am	7 to 9am	9am to 8pm	8pm to midnight	Last buses
0551	about every <b>15</b> minutes	about every <b>8-12</b> minutes	about every <b>6-10</b> minutes	about every <b>12</b> minutes	0006 0018 0030 0042

Journeys at 05:51, 06:06, 06:21, 06:36, 06:51, 07:03, 07:15, 07:27, 07:39, 07:51, 08:03, 08:15, 18:12, 18:20, 18:28, 18:36, 18:44, 18:54, 19:04, 19:14, 19:24, 19:34, 19:44, 19:54, 20:06, 20:18, 20:30, 20:42, 20:54, 21:06, 21:18, 21:30, 21:42, 21:54, 22:06, 22:18, 22:30, 22:42, 22:54, 23:06, 23:18, 23:30, 23:42, 23:54, 00:06, 00:18, 00:30, and 00:42 run as far as Springvilla Road.

## Sunday and other Public Holidays

First bus	6 to 8am	8 to 10am	10am to midnight	Last buses
0551	At these 11 minutes 31 past the 51 hour	about every <b>15</b> minutes	about every <b>10-12</b> minutes	0006 0018 0030 0042

Journeys at 05:51, 06:11, 06:31, 06:51, 07:11, 07:31, 07:51, 08:06, 08:21, 08:36, 08:51, 09:06, 09:21, 09:36, 09:51, 10:01, 10:11, 10:23, 10:35, 10:47, 10:59, 11:11, 11:23, 11:35, 11:47, 11:57, 12:09, 12:21, 12:33, 12:45, 12:57, 13:09, 13:21, 13:33, 13:45, 13:57, 14:09, 14:21, 14:33, 14:45, 14:57, 15:09, 15:21, 15:33, 15:45, 15:57, 16:09, 16:21, 16:33, 16:45, 16:57, 17:08, 17:20, 17:31, 17:43, 17:55, 18:07, 18:19, 18:31, 18:42, 18:54, 19:06, 19:18, 19:30, 19:42, 19:54, 20:06, 20:18, 20:30, 20:42, 20:54, 21:06, 21:18, 21:30, 21:42, 21:54, 22:06, 22:18, 22:30, 22:42, 22:54, 23:06, 23:18, 23:30, 23:42, 23:54, 00:06, 00:18, 00:30, and 00:42 run as far as Springvilla Road.

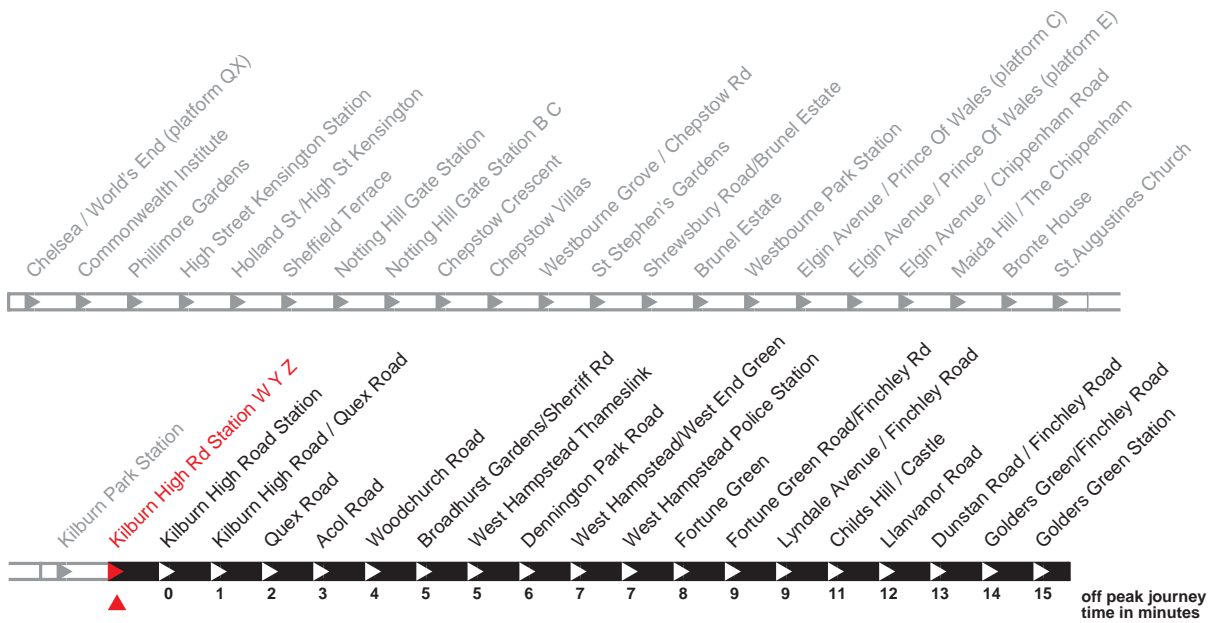
Operated by Metroline for London Buses

# London Buses

# 328



Buses towards Golders Green Station



## Monday - Friday

First buses	6 to 7am	7am to 8pm	8pm to midnight	Last buses
05 19	06 04	<i>about every</i>	<i>about every</i>	00 09
05 34	06 19	<b>4-7</b>	<b>7-10</b>	00 19
05 49	06 29	<i>minutes</i>	<i>minutes</i>	00 29
	06 39			00 39
	06 49			00 49
	06 59			00 59

## Saturday (also Good Friday)

First buses	6 to 7am	7 to 8am	8am to 7pm	7pm to midnight	Last buses
05 19	06 04	<i>about every</i>	<i>about every</i>	<i>about every</i>	00 09
05 34	06 19	<b>10</b>	<b>4-8</b>	<b>7-10</b>	00 19
05 49	06 29	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	00 29
	06 39				00 39
	06 49				00 49
	06 59				00 59

## Sunday and other Public Holidays

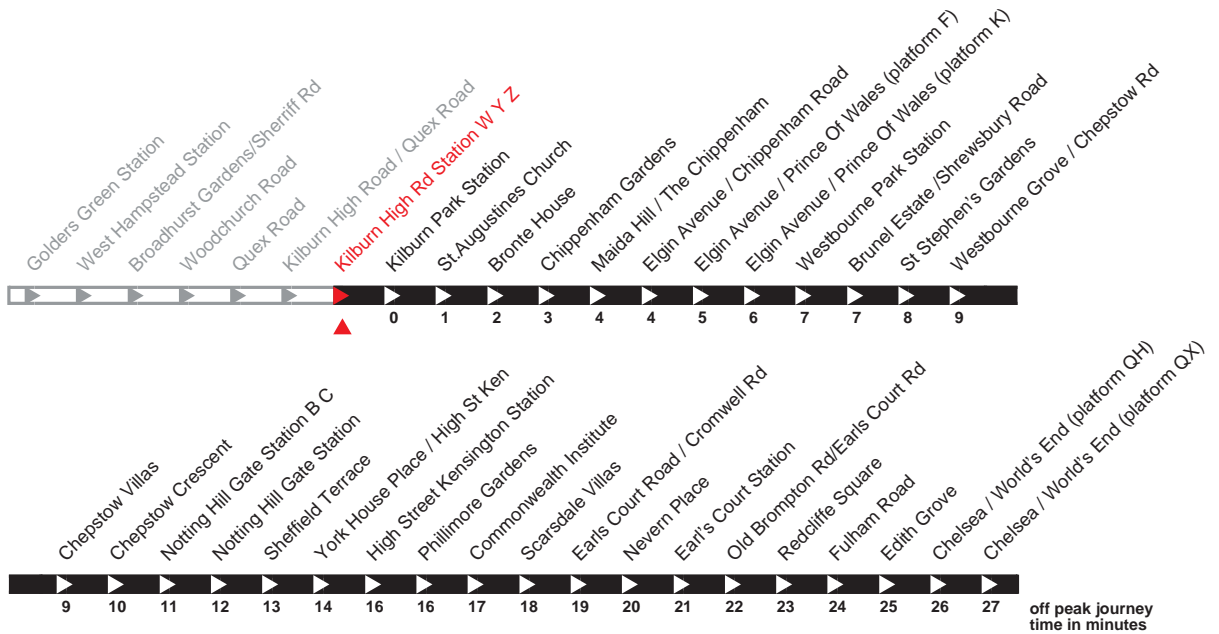
First buses	6 to 9am	9 to 10am	10 to 11am	11am to midnight	Last buses
05 19	<i>about every</i>	<i>about every</i>	10 00	<i>about every</i>	00 09
05 34	<b>15</b>	<b>10-13</b>	10 10	<b>8-10</b>	00 19
05 49	<i>minutes</i>	<i>minutes</i>	10 20	<i>minutes</i>	00 29
			10 25		00 39
			10 30		00 49
			10 40		00 59
			10 48		
			10 57		

Operated by First for London Buses

# London Buses

Buses towards Chelsea / World's End

# 328



## Monday - Friday

First buses	6 to 7am	7am to 8pm	8pm to midnight	Last buses
0507	0602	<i>about every</i>	<i>about every</i>	0002
0522	0612	<b>4-8</b>	<b>8-10</b>	0012
0537	0622	<i>minutes</i>	<i>minutes</i>	0022
0552	0629			0032
	0636			0042
	0642			
	0648			
	0653			
	0659			

## Saturday (also Good Friday)

First buses	6 to 8am	8am to 7pm	7pm to midnight	Last buses
0507	<i>about every</i>	<i>about every</i>	<i>about every</i>	0002
0522	<b>7-10</b>	<b>4-8</b>	<b>7-10</b>	0012
0537	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	0022
0552				0032
				0042

## Sunday and other Public Holidays

First buses	6 to 9am	9 to 10am	10am to midnight	Last buses
0507	<i>about every</i>	<i>about every</i>	<i>about every</i>	0002
0522	<b>11-15</b>	<b>10-12</b>	<b>7-10</b>	0012
0537	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	0022
0552				0032
				0042

Operated by First for London Buses

# London Buses

# 32



## Buses towards Kilburn Park Station



### Monday - Friday

First buses	6 to 7am	7am to 9pm	9pm to midnight	Last buses
0535 0547 0559	about every <b>10-12</b> minutes	about every <b>6-10</b> minutes	about every <b>10-12</b> minutes	0006 0018 0030

### Saturday (also Good Friday)

First buses	6 to 7am	7 to 9am	9am to midday	midday to 1pm	1 to 8pm	8pm to midnight	Last buses
0535 0550	about every <b>12-15</b> minutes	about every <b>10-12</b> minutes	about every <b>6-8</b> minutes	1201 1209 1217 1222 1233 1241 1249 1257	about every <b>7-11</b> minutes	about every <b>8-12</b> minutes	0006 0018 0030

### Sunday and other Public Holidays

First buses	6 to 8am	8 to 11am	11am to midnight	Last buses
0535 0555	At these 15 minutes 35 past the 55 hour	about every <b>12-15</b> minutes	about every <b>9-12</b> minutes	0006 0018 0030

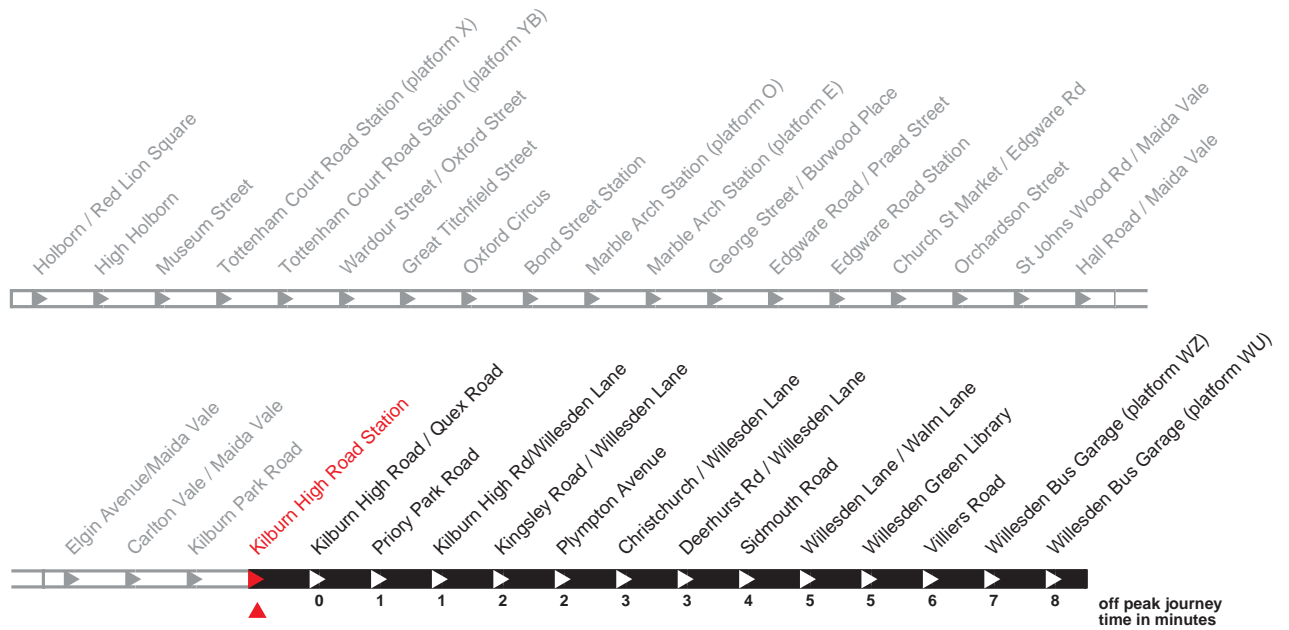
Operated by Metroline for London Buses



# London Buses

Buses towards Willesden Bus Garage

# 98



## Monday - Friday

First buses	7 to 8am	8am to 8pm	8pm to midnight	Last buses
0631	0711	<i>about every</i>	<i>about every</i>	0002
0646	0721	<b>4-7</b>	<b>6-10</b>	0009
0659	0731	<i>minutes</i>	<i>minutes</i>	0015
	0742			0020
	0752			0025
	0757			

## Saturday (also Good Friday)

First buses	7 to 8am	8 to 10am	10am to 9pm	9pm to midnight	Last buses
0631	0701	<i>about every</i>	<i>about every</i>	<i>about every</i>	0002
0646	0716	<b>7-10</b>	<b>5-9</b>	<b>8-10</b>	0009
	0726	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	0015
	0738				0020
	0752				0025

## Sunday and other Public Holidays

First buses	9 to 10am	10 to 11am	11am to midnight	Last buses
0801	<i>about every</i>	<i>about every</i>	<i>about every</i>	0002
0818	<b>14</b>	<b>8-12</b>	<b>7-10</b>	0009
0833	<i>minutes</i>	<i>minutes</i>	<i>minutes</i>	0015
0845				0020
0857				0025

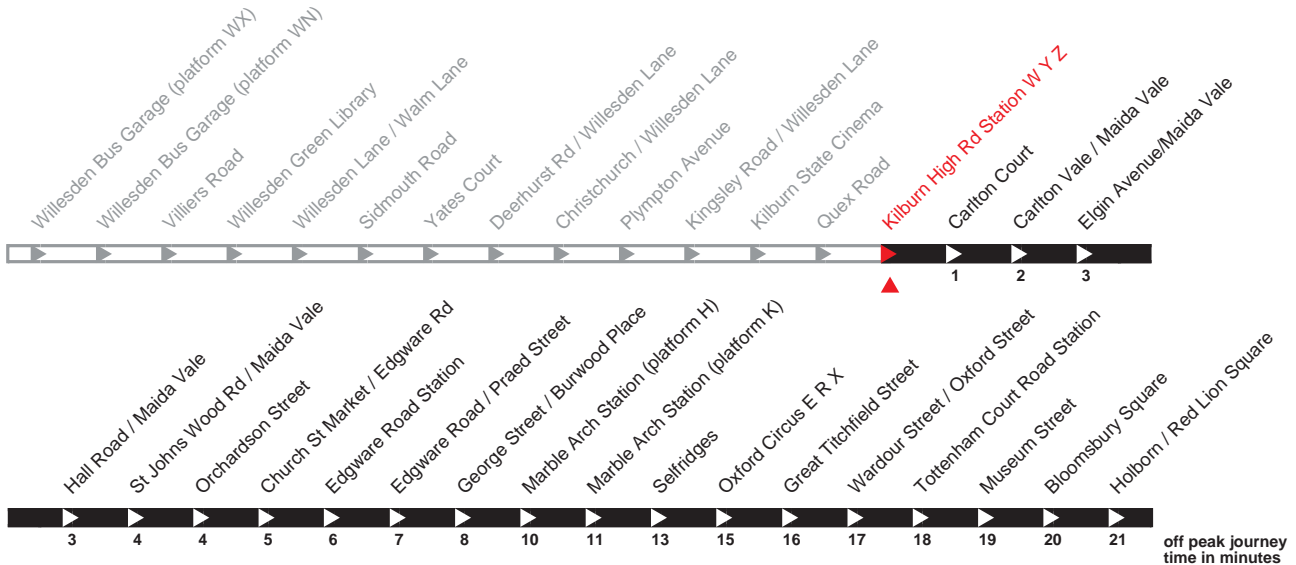
Operated by Metroline for London Buses



# London Buses

Buses towards Holborn / Red Lion Square

# 98



## Monday - Friday

First buses	6 to 8am	8 to 9am	9am to 7pm	7 to 11pm	Last buses
0541 0556	<i>about every</i> <b>4-7</b> <i>minutes</i>	0803 0813 0818 0823 0828 0833 0838 0843 0848 0853 0858	<i>about every</i> <b>5-8</b> <i>minutes</i>	<i>about every</i> <b>8-10</b> <i>minutes</i>	2306 2315 2323 2330

## Saturday (also Good Friday)

First buses	6 to 7am	7 to 9am	9am to 6pm	6 to 11pm	Last buses
0541 0556	0611 0626 0637 0647 0657	<i>about every</i> <b>7-10</b> <i>minutes</i>	<i>about every</i> <b>4-8</b> <i>minutes</i>	<i>about every</i> <b>7-10</b> <i>minutes</i>	2306 2315 2323 2330

## Sunday and other Public Holidays

First buses	8 to 9am	9am to 11pm	Last buses
0711 0726 0739 0750	<i>about every</i> <b>10-12</b> <i>minutes</i>	<i>about every</i> <b>6-10</b> <i>minutes</i>	2306 2315 2323 2330

Operated by Metroline for London Buses

## APPENDIX B

### PTAL Calculation

**PTAL Calculator (Manual)**

**Parameters**

Walk Speed (metres/min)	80
Bus reliability (mins)	2
Rail reliability (mins)	0.75
Peak hour services	

Site	Stop	Route	Distance (metres)	Frequency (vph)	Weight	Walk Time (mins)	Service Wait Time (SWT) (mins)	Access Time (mins)	Equivalent Doorstep Frequency (EDF)	Accessibility Index
Greenwich Reach	16	1	70	3	0.5	0.88	5.33	6.21	4.83	2.42
	31	3	60	12	1	0.75	4.50	5.25	5.71	5.71
	32	4	70	7.5	0.5	0.88	6.00	6.88	4.36	2.18
	98	5	70	10	0.5	0.88	5.00	5.88	5.11	2.55
	206	8	70	4	0.5	0.88	9.50	10.38	2.89	1.45
	316	9	70	7.5	0.5	0.88	6.00	6.88	4.36	2.18
	328	10	60	12	0.5	0.75	4.50	5.25	5.71	2.86
LU	Kilburn Park	Bakerloo	320	20	1	4.00	2.25	6.25	4.80	4.80
Rail	Kilburn High Road	London Euston	60	3	1	0.75	10.75	11.50	2.61	2.61
		Watford Junction	60	3	0.5	0.75	10.75	11.50	2.61	1.30
<b>28.66</b>										

PTAL	Range of Index
1a (Low)	0.00 - 2.50
1b	2.51 - 5.00
2	5.01 - 10.00
3	10.01 - 15.00
4	15.01 - 20.00
5	20.01 - 25.00
6a	<b>25.01 - 40.00</b>
6b (V High)	40.01 +