# SYON GARDENS <br> HOMEBASE BRENTFORD SITE, TW7 5QE Healthy Streets Transport Assessment 

## Consultant: RHDHV



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\section*{1 Synopsis}
1.1.1 Royal HaskoningDHV has been commissioned by St Edward Homes Limited to prepare a Transport Assessment (TA) associated with the proposed development of land at Syon Lane, Brentford, Isleworth TW7 5QE (the 'site'). The site is currently occupied by a Homebase retail store ( 4,180 sqm Gross Floor Area - GFA), and a surface level car park.
1.1.2 This 'Healthy Streets' Transport Assessment (TA) has been prepared in association with a "full planning application for the demolition of the existing building and car park, and erection of buildings to provide residential units, a replacement retail foodstore, with additional commercial, business and service space, and a flexible community space, and ancillary plant, access, servicing and car parking, landscaping and associated works".
1.1.3 In preparing this TA the Transport for London (TfL) Healthy Streets approach has been used and this report highlights, for discussion, any constraints on the local transport network that could have implications for access to the site. Subsequent and significant mitigation measures or improvements and benefits of the proposed development have been put forward as detailed within this TA.
1.1.4 As required by TfL, this document presents an Active Travel Zone (ATZ) assessment for the site that covers an area equivalent to a 20 -minute cycle from the site's boundary. The purpose of the ATZ assessment is to establish what transport connections and local amenities would be accessible to future site residents and to establish whether the site is suitably located for residents to live a car free lifestyle. Where appropriate, mitigation measures / improvements have been proposed including significant improvements to the pedestrian environment within and around the site.
1.1.5 The site is located within the 'Great West Road Opportunity Area', an area designated for higher density development. To facilitate higher density development in the Opportunity Area, improvements to the local transport network are anticipated, and these include the development of:
- The West London Orbital - A new London Overground service that would run from Hounslow and Kew Bridge, towards Hendon and West Hampstead in the north.
- Southall Rail Link - A passenger train service, operating on an existing freight line, linking Brentford with the planned Crossrail station at Southall. A new station would be created at Transport Avenue, Brentford, close to the existing Sky campus, and this route could in due course be connected to Brentford station.
- Improved and extended bus accessibility to the area, which would include an extension of the existing E1 bus service. The development of the Homebase site plays an important role in securing the improved extension to the E1 bus service. The provision of a new E1 bus route 'turnaround' at Tesco Osterley would not be possible without Tesco being reprovided at Homebase, Brentford.
- A substantial financial contribution from the applicant to increased bus services will also bring significant benefits for existing and proposed residents, Sky workers and other workers in the local area.

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- Improved cycle infrastructure - this could comprise of Phase 2 of Cycleway 9 which would route to the south of the site, along London Road, and the development of improved cycle routes alongside the A4 Great West Road. .
- Boston Manor Boardwalk - A new pedestrian connection to Boston Manor Station.
1.1.6 Notwithstanding the above, this TA establishes that the site is already accessible by public transport services; the site is located within 100m of Syon Lane Station and bus stops are located on the site's Syon Lane frontage. Osterley Underground Station (Piccadilly Line) which is located approximately 2 km from the site, is also within walking distance or accessible by bus.
1.1.7 The Homebase site is a rectangular plot of land of approximately 1.4 hectares. The site is located on the southern side of the intersection of Syon Lane and the A4 Great West Road (Gillette Corner). The site's location is illustrated in Insert 1.1.

Insert 1.1: Site Location Plan

1.1.8 The proposed development would provide a new Tesco store at ground floor level with 473 residential units above. The Tesco store would be provided with 400 on-site customer car parking spaces, with the residential development provided with 105 on-site car parking spaces (including 2 dedicated car club parking spaces and 3 visitor parking spaces). Car parking would be located over two levels above the Tesco store, with some residential parking also provided in a basement.
1.1.9 At present the public realm in the area is car dominated, discouraging pedestrian trips. The proposal provides an opportunity to make significant improvements, with a particular focus on the Healthy Streets indicators "People choose to walk, cycle and use public transport", "Pedestrians from all walks of life", "Easy to cross" and "People feel safe". As a result several improvements
are proposed to improve accessibility for people from all walks of life, making the nearby roads easier to cross and ensuring that people feel safe while doing so.
1.1.10 Improvements will be made to the public realm, in terms of upgrades to footways, the underpass beneath the Great West Road and to the overall pedestrian environment and amenity. The pedestrian improvements will encourage walking and also improve the first / last leg of public transport trips. The proposed cycle infrastructure improvements will provide a continuous link across the northern frontage of the site.
1.1.11 The site's primary vehicular access from Syon Lane will be improved via a new traffic signal control junction, located approximately 7 metres to the south (centre to centre) to replace the existing priority controlled Homebase site access. As well as improving traffic flow (and therefore air quality), this gives greater safety for pedestrians wishing to cross in this location with the implementation of dedicated crossing 'green man' signals for those on foot.
1.1.12 The site access incorporates improved pedestrian crossing facilities has therefore been designed with reference to the reflect healthy streets principles It also gives greater safety for the existing high pedestrian demand that occurs from Syon Lane station to and from the Sky campus.
1.1.13 The proposed traffic signal control site access junction would be linked to the operation of the adjacent Syon Lane/ Great West Road (A4) traffic signal control junction (Gillette Corner) so that the two would operate with coordinated signal timings. This linkage will improve traffic flow and safety, again reflecting healthy streets principles.
1.1.14 To improve access into the new store, improvements will be made to the junction layout at Gillette Corner. These changes include an additional right turn lane from A4 eastbound into Syon Lane. This is detailed within 'Section 11 - Modelling' to mitigate the traffic impact of the development and give an overall net benefit to junction capacity and reduce driver delay.
1.1.15 St Edward Homes Limited is bringing forward the redevelopment of both the Tesco Osterley and Homebase Brentford sites. The existing Tesco store would be re-provided on the Homebase site as part of a mixed-use development with residential above, which releases the opportunity to deliver a comprehensive residential-led mixed-use development on the Tesco site. The existing Tesco Osterley store has a floor area of circa 11,582 sq.m GFA, a petrol filling station (PFS) and circa 625 surface-level customer parking spaces. The Tesco store is situated approximately 500 metres \((\mathrm{m})\) to the north of the site. The location of the existing Tesco store is illustrated in Insert 1.2.

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Insert 1.2 : Homebase and Tesco Development Sites

1.1.16 A planning application for the proposed redevelopment of Tesco Osterley will be submitted to the London Borough of Hounslow (LBH) as a standalone planning application which will propose a residential-led mixed-use development, comprised of the following:
- 1,677 residential units;
- Between 3,000 sqm and 5,000 sqm of flexible non-residential floorspace comprising commercial, business and service space, and/ or learning and non-residential institution space, and/or local community space, and/or a public house/ drinking establishment, and/or mobility hub;
- Public open public space and public realm; and
- Up to 400 car parking spaces for use by site residents, including a minimum of 10 car club bays.
1.1.17 The redevelopment of Tesco Osterley would mean the removal of the existing PFS. The PFS would not be re-provided on the site as part of the development project. The removal of the PFS will result in the removal of some traffic from the local highway, because a proportion of trips to the PFS are 'petrol only' and do not connect with the Tesco store. Some 'petrol only' trips will in future route away from the local area and would no longer impact on the operation of the Gillettee Corner junction. .
1.1.18 As a result of the development of the Homebase and Tesco sites retail car parking provision in the area will reduce, significantly. Providing car parking for the new Tesco store at a level below the existing Tesco Osterley provision is in line with approach of policy contained within the New London Plan, which states "existing parking provision should be reduced to reflect the current approach and not be re-provided at previous levels where this exceeds the standards set out in this policy."
1.1.19 The proposed residential development would be 'low car' and would provide residential car parking at an average ratio of 0.21 spaces per unit. This level of provision is below the maximum car parking standards defined by the draft London Plan (2019). These car parking proposals have been informed by the outcome of the ATZ assessment and by the future operational requirements of the foodstore.

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1.1.20 This level of provision is below the maximum car parking standards defined by the 'Intend to Publish' version of the London Plan (2019).
1.1.21 With regard to cycling, the Homebase Brentford development would provide 204 spaces for use by site visitors and Tesco staff, and 896 spaces for use by site residents. This is in line with the minimum requirements of the 'Intend to Publish' version of the London Plan.
1.1.2 This TA has established that as a result of the proposed developments at Homebase Brentford and Tesco Osterley, an overall reduction in traffic numbers is anticipated when compared to existing development traffic attraction. This is caused by the removal of the Homebase store, the removal of the Tesco PFS, the reduced car parking capacity of the new Tesco store and the low car nature of the proposed development.
1.1.23 This reduction is particularly pronounced on Syon Lane north of the A4 Great West Road, which will experience an overall traffic reduction due to the relocation of the Tesco store to a site located south of the A4.

Insert 1.3: 2035, Predicted Changes to Traffic Flows as a result of Development

\begin{tabular}{|l|c|c|}
\hline Location & \begin{tabular}{c} 
Average Weekday \\
\((07: 00-19: 00)\)
\end{tabular} & \begin{tabular}{c} 
Annual Average \\
Daily Traffic Flow \\
(AADT, (24.Hours, \\
Mon- Sun)
\end{tabular} \\
\hline 1 & -90 & -78 \\
\hline 2 & -90 & -78 \\
\hline 3 & -90 & -78 \\
\hline 4 & -270 & -234 \\
\hline 5 & -272 & -236 \\
\hline 6 & -406 & -374 \\
\hline 7 & -198 & -152 \\
\hline 8 & -3362 & -3924 \\
\hline 9 & -3362 & -3924 \\
\hline 10 & -412 & -439 \\
\hline 11 & -12 & -13 \\
\hline
\end{tabular}
1.1.24 Highway works are proposed at the Gillette Corner traffic signal control junction to support the two proposed developments, with the works focused on providing adequate vehicular access to the new Tesco store on the Homebase site. The works include the provision of a second right turn lane for traffic approaching Gillette Corner from the west.
1.1.25 While the development would result in a redistribution of trips on the local highway, the TA concludes that the proposed development would not result in a significant impact on the operation of the local highway.
1.1.26 The TA concludes that the proposed development will have a beneficial impact across all modes of transport. This includes greater capacity and infrastructure provision for pedestrians and cyclists, improvements to public transport services and capacity and betterment in terms of the operation of the local highway network.

\section*{2 Introduction}

\subsection*{2.1 Overview}
2.1.1 Royal HaskoningDHV has been commissioned by St Edward Homes Limited to prepare a TA associated with the proposed development of land at Syon Lane, Brentford, Isleworth TW7 5QE (the 'site'). The site is currently occupied by a Homebase retail store ( 4,180 sqm Gross Floor Area - GFA), and a surface level car park. The planning application seeks the following:
"Full planning application for the demolition of existing building and car park and erection of buildings to provide residential units, a replacement retail foodstore, with additional commercial, business and service space, and a flexible community space, and ancillary plant, access, servicing and car parking, landscaping and associated works"
2.1.2 Throughout this report 'the site' refers to the land located at the aforementioned address and the 'development' refers to the buildings that are proposed to be constructed in the future.
2.1.3 The proposed development would provide a new Tesco store at ground floor level with 473 residential units above. The Tesco store would be provided with 400 customer car parking spaces, with the residential development provided 105 dedicated car parking spaces. The proposed residential car parking provision includes 100 resident spaces, 3 spaces for use by site visitors and 2 spaces for use by Car Club vehicles.
2.1.4 The location of the proposed development site is indicated in Insert 1.1.

\subsection*{2.2 Parallel Application - Tesco Osterley Site}
2.2.1 The Homebase site, Syon Lane, is being developed in parallel with redevelopment proposals for the Tesco Osterley site. The site's redevelopment would facilitate the relocation of the operational Tesco, Osterley store (circa 11,582sq.m GFA and circa 625 parking spaces) which is currently situated approximately 500 m north of the site. The development of both sites is being progressed by St Edward Homes Limited and the proposals are intrinsically linked.
2.2.2 The Tesco Osterley site is a 5.45-hectare plot of land located along the northern side of Syon Lane. MacFarlane Lane and Grant Way bound the western and eastern sides of Tesco Osterley, respectively. The Sky campus and playing fields (including a five-a-side football complex) adjoin Tesco Osterley site's northern boundary.
2.2.3 Tesco Osterley is afforded vehicular access from Syon Lane via a roundabout junction that serves an internal road, from which access is taken to a bus stop and terminus (route H28), the Tesco customer car park, the Tesco service yard and the Tesco PFS.
2.2.4 The location of Tesco Osterley, in relation to the site, is presented in Insert 1.2.
2.2.5 The redevelopment of Tesco Osterley will be submitted to LBH as a standalone planning application for a residential-led mixed-use development, comprised of the following:
- Up to 1,677 residential units;
- Between 3,000 sqm and 5,000 sqm of flexible non-residential floorspace comprising commercial, business and service space, and/ or learning and non-residential institution
space, and/or local community space, and/or a public house/ drinking establishment, and/or mobility hub;
- Public open public space and public realm; and
- Up to 400 car parking spaces for use by site residents, including a minimum of 10 car club bays.
2.2.6 While the Tesco store would be re-provided from Tesco Osterley to the Homebase site, the PFS associated with the existing Tesco, and the existing Homebase use will not be re-provided as part of the proposed scheme at the site.
2.2.7 As outlined above, the proposed development scheme that forms the subject of this report (at the site) has been developed with consideration of the parallel application coming forward. In combination, the two sites currently provide in excess of 12,500sq.m of retail floor area (GFA) and over 900 retail car parking spaces. Both sites are currently operational and attract traffic movements throughout the day.
2.2.8 The implementation of the development sites would be phased so that a Tesco store is always open and operational, locally. This means that the new Tesco store would be constructed first, and would become operational on the site before the existing Tesco Osterley store is closed for redevelopment. The existing and proposed Tesco stores would not be open simultaneously at any time during the development.
2.2.9 It is anticipated that subject to the granting of planning consent, construction work will commence at the Homebase site in the third quarter of 2021. A six-year construction build programme is envisaged with completion of works on site by the third quarter of 2026.
2.2.10 Following the completion of the new Tesco store at the Homebase site, construction works will commence at the Tesco Osterley site in Quarter 2 2025. The construction of the proposed 1,677 residential units is anticipated to be undertaken with a five-phase, 10-year construction programme, with development completion anticipated by Quarter 22035

\subsection*{2.3 Pre-application Consultation}
2.3.1 This TA has been informed by pre-application consultation discussions with LBH and TfL. While the pre-application consultation has been undertaken with a focus on the site, the responses received by both LBH and TfL consider the wider development scenario whereby the existing Tesco store is relocated to the Homebase site, with the Tesco Osterley site being redeveloped for predominately residential purposes.
2.3.2 Initial pre-application correspondence from LBH, dated \(20^{\text {th }}\) December 2018, identified a need for a formal TfL pre-application process. This request was reiterated in TfL's Initial Screening Opinion, dated \(7^{\text {th }}\) March 2019. Further to these requests, a pre-application meeting was held with TfL and LBH on the \(9^{\text {th }}\) May 2019, and a follow up pre-application meeting was held with TfL on the \(31^{\text {st }}\) July 2019.
2.3.3 Formal pre-application comments were received from TfL in correspondence dated \(3^{\text {rd }}\) October 2019 and the key points raised with regard to the development proposals were as follows:
- Walking and Cycling Improvements: The scheme should enhance safety and be developed to incorporate improvements to walking and cycling infrastructure, due to the expected future increases in pedestrian and cyclist traffic.
- Vision Zero: The TA should consider mitigation measures as a means to eliminate serious and fatal collisions on the transport network, and should demonstrate how the scheme will contribute towards TfL's Vision Zero approach.
- Active Travel Zone Assessment (ATZ): Requirement for an ATZ assessment as part of the application submission - This assessment should cover key routes to the nearest rail stations, bus stops, parks and amenities and should identify deficiencies in the local pedestrian environment.
- Cycle Parking: All cycle parking is required to be designed and laid out in accordance with the guidance contained in Chapter 8 of the London Cycling Design Standards (LCDS).
- Public transport accessibility: TfL requires bus trip generation figures by time and by direction, with the peak hour indicated separately. TfL would use this information to assess the impact of the development on local bus services.
- Residential Car parking provision: A residential car parking ratio of 0.25 spaces per unit is deemed to be in accordance with the London Plan and Draft New London Plan.
- Retail Car parking provision: The proposed retail parking provision [400 spaces] is deemed to be in excess of the Draft New London Plan parking standards. TfL acknowledges that the car parking floors have been designed for future repurposing.
- Car Park Access: It is recommended that barrier controls are not used to access the car park, as they may increase the risk of 'blocking back'
- Servicing: The TA is required to present the trip generation analysis for servicing and delivery vehicles and demonstrate that the proposed loading bays are adequate to meet the needs of the development. A Delivery and Servicing Plan is requested as part of the application.
- Construction: The application must be accompanied by a Construction and Logistics Plan (CLP) that details construction programme, routes for HGVs; frequency of deliveries and loading/unloading locations.
- Travel Planning: A framework travel plan covering all elements of the development, which sets out the targets and the measures to be implemented, will need to be submitted as part of the application. TfL expects that the full travel plan will be secured and monitored as part of a Section 106 Agreement.
2.3.4 TfL informed the applicant of emerging TfL schemes for addressing road safety and improving pedestrian and cycle facilities at Gillette Corner, including decommissioning the subway and introducing at grade crossings for pedestrians and cyclists. The proposed development will play a key role to deliver these type of improvements to the pedestrian environment within and around the site. The proposed development is expected to open up new clean air routes and the new pedestrian crossings on Grant Way and Syon Lane. The proposed development will provide improvements to pedestrian connections between the Tesco site and Homebase site (and Syon Lane station), regardless of whether this may be superseded later by the at grade crossings.
2.3.5 Furthermore, it is noted that TfL is in the process of changing local bus routes in the area. Bus route E1 will be extended to serve the Tesco Osterley site. TfL have requested that the applicant details specifically how the development will deliver these improvements to bus accessibility for the E1 service in relation to the site (notwithstanding the substantial financial contribution that will
also be made by the applicant to increase the frequency of the local bus service).
2.3.6 The proposed structure and content of this TA has been developed with regard to TfL's most recent guidance on Transport Assessment preparation, and with reference to the comments made by TfL, referred to above.
2.3.7 Further to the above-mentioned discussions with LBH and TfL, the following transport planning documents have been prepared by RHDHV in association with the proposed development, and these form part of the planning submission, presented as stand-alone documents:
- Transport Assessment Scoping Study (TASS);
- Residential Travel Plan (RTP);
- Framework Retail Travel Plan (FWTP);
- Delivery and Servicing Plan (DSP);
- Outline Construction Logistics Plan (CLP); and
- Car Park Management Plan (CPMP).

\subsection*{2.4 Report Structure}
2.4.1 As outlined above, this TA has been prepared in respect of TfL's suggested Healthy Streets format, as set out within TfL's publication 'TfL Healthy Streets Transport Assessments Contents \& Chapters' (last updated 17/06/2019). As such, following this introduction the TA is structured as follows:
- Section 3 presents a review of relevant land use and transport planning policy;
- Section 4 outlines the 'Site and Surroundings' and provides a description of the local context;
- Section 5 considers 'Transport Planning for People’ within the context of a defined Active Travel Zone (ATZ);
- Section 6 provides a review of site accessibility by non-car modes of travel;
- Section 7 describes the proposed development with reference to the site's proposed arrangements;
- Section 8 presents the methodology and findings of a multi-modal trip generation exercise for the proposed development;
- Section 9 outlines the methodology for, and presents the results, of capacity modelling, carried out in respect of the proposed scheme;
- Section 10 discusses the transport impacts resulting from the operational phase of the proposed development;
- Section 11 sets out proposed measures for mitigating residual transport impacts of the proposed scheme;
- Section 12 presents considerations relating to the construction phase of the proposed development; and
- Section 13 provides a summary and conclusion to the report.

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\section*{3 Policy Review}

\subsection*{3.1 Preface}
3.1.1 This section provides an overview of the relevant national, regional and local policy requirements relevant to the proposed development.

\subsection*{3.2 National Policy}

\section*{National Planning Policy Framework (June 2019)}
3.2.1 The National Planning Policy Framework (NPPF) is defined as being the document that "sets the Government's planning policies for England and how these are expected to be applied".
3.2.2 The NPPF is not a transport-specific document, rather it sets out the Government's general requirements for the planning system. The NPPF incorporates guidance for local planning authorities when defining their local plans and in determining planning applications. The purpose of the planning system, as identified in the NPPF, is to contribute to the achievement of sustainable development, with three 'dimensions' identified as supporting this:
- An economic objective: to help build a strong, responsive and competitive economy, by identifying and coordinating the provision of infrastructure.
- A social objective: to support strong, vibrant and healthy communities, by fostering a well-designed and safe built environment, with accessible services and open spaces that reflect current and future needs and support communities' health, social and cultural wellbeing.
- An environmental objective: to contribute to protecting and enhancing our natural, built and historic environment.
3.2.3 With regard to transport considerations for new developments, the NPPF states that "all developments that will generate significant amounts of movement should be required to provide a travel plan, and the application should be supported by a transport statement or transport assessment so that the likely impacts of the proposal can be assessed". This should also take into account that:
- "Appropriate opportunities to promote sustainable transport modes can be - or have been - taken up, given the type of development and its location;
- \(\quad\) Safe and suitable access to the site can be achieved for all users; and
- Any significant impacts from the development on the transport network (in terms of capacity and congestion), or on highway safety, can be cost effectively mitigated to an acceptable degree."
3.2.4 With specific respects to planning decisions based on transport considerations, at paragraph 109 the NPPF states that:
"Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe."

\subsection*{3.3 Regional Policy}

\author{
London Plan, March 2016
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3.3.1 The London Plan is a statutory development strategy for Greater London that is published by the Greater London Authority (GLA). The current London Plan was published and adopted March 2016 and chapter six 'London's Transport' aims to address capital's transport challenges.
3.3.2 The sixth objective of the London Plan which relates to transport defines London's future as:
"A city where it is easy, safe and convenient for everyone to access jobs, opportunities and facilities with an efficient and effective transport system which actively encourages more walking and cycling, makes better use of the Thames, and supports delivery of all the objectives of this Plan."
3.3.3 Policy 6.3 'Assessing Effects of Development on Transport Capacity' requires new developments to "Development proposals should ensure that impacts on transport capacity and the transport network, at both a corridor and local level, are fully assessed. Development should not adversely affect safety on the transport network". "Transport assessments will be required in accordance with TfL's Transport Assessment Best Practice Guidance for major planning applications".
3.3.4 Policy 6.9 ''Cycling' states "Developments should: a) provide secure, integrated, convenient and accessible cycle parking facilities in line with the minimum standards... and the guidance set out in the London Cycle Design Standards (or subsequent revisions); b) provide on-site changing facilities and showers for cyclists"
3.3.5 Within the context of the above, the London Plan's minimum cycle parking standards are summarised in respect of the proposed land uses in Table 3.1.

Table 3.1: London Plan Cycle Parking Standards
\begin{tabular}{|c|c|c|c|}
\hline Use C & & Long-stay & Short-stay \\
\hline \multirow{2}{*}{A1} & Food retail & From a threshold of 100 sqm: 1 space per 175 sqm & From a threshold of 100 sqm: first 750 sqm: 1 space per 40 sqm thereafter: 1 space per 300 sqm \\
\hline & Non-food retail & From a threshold of 100 sqm: first 1000 sqm: 1 space per 250 sqm thereafter: 1 space per 1000 sqm & From a threshold of 100 sqm: first 1000 sqm: 1 space per 125 sqm thereafter: 1 space per 1000 sqm \\
\hline A2-A5 & Cafes \& restaurants / drinking establishments & From a threshold of 100 sqm: 1 space per 175 sqm & From a threshold of 100 sqm: 1 space per 40 sq.m \\
\hline C3 & Residential - dwellings & 1 space per studio and 1 bedroom unit; 2 spaces per all other dwellings & 1 space per 40 units \\
\hline
\end{tabular}

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3.3.6 Further to the above, the London Plan states that "cycle parking provided for staff should be suitable for long-stay parking, particularly in terms of location, security and protection from the elements". In respect of short-stay parking the policy document states such facilities "should be available for shoppers, customers, messengers and other visitors to a site, and should be convenient and readily accessible. Short-stay cycle parking should have step-free access and be located within 15 metres of the main site entrance, where possible."
3.3.7 This TA, at Section 6.6.7, presents a schedule of proposed long-stay and short-stay cycle parking as allocated by land use.
3.3.8 In respect of car parking, the London Plan presents maximum standards for retail and residential uses as summarised in Table 3.2 and Table 3.3 respectively.

Table 3.2: London Plan Maximum Standards - Retail
\begin{tabular}{l|c|c|}
\hline \multicolumn{3}{|l|}{ Maximum standards for retail uses: space per sqm of gross floor space (GIA) } \\
\hline Use & PTAL \(\mathbf{6}\) and 5 & PTAL 4 and 2 \\
\hline Food retail: up to \(500 \mathrm{~m}^{2}\) & 75 & \(50-35\) \\
\hline Food retail: up to \(2500 \mathrm{~m}^{2}\) & \(45-30\) & \(30-20\) \\
\hline Non-food retail & \(60-40\) & \(50-30\) \\
\hline
\end{tabular}

Table 3.3: London Plan Maximum Standards - Residential
\begin{tabular}{l|c|c|c|}
\hline Number of beds & \multicolumn{1}{|c|}{4 or more } & 3 & \(1-2\) \\
\hline Parking spaces & Up to 2 per unit & Up to 1.5 per unit & Less than 1 per unit \\
\hline Notes: \\
- All developments in areas of good public transport accessibility in all parts of London should aim for significantly \\
less than1 space per unit \\
- Adequate parking spaces for disabled people must be provided preferably on-site \\
- 20 per cent of all spaces must be for electric vehicles with an additional 20 per cent passive provision for electric \\
vehicles in the future.
\end{tabular}

\section*{London Plan (December 2019) - Intend to Publish (ItP) Version}
3.3.9 The Draft New London Plan was published in November 2017 and has been subject to public consultation. The consolidated suggested changes revision of the document were published in July 2019. The New London Plan will provide the context for development planning decisions in the Greater London region, once the draft is formally adopted.
3.3.10 The Draft New London Plan identifies the 'Great West Corridor', a 2.5 mile stretch of the A4 Great West Road in which the site is located, as an Opportunity Area or Area of Intensification, and supports the growth of employment in the area by designating it as a potential 'Strategic Outer London Development Centre' and a 'Strategic Industrial Location'.
3.3.11 Transport policies are set out in Chapter 10 of the draft document. Policy T1 of the document states that: "Development Plans should support and development proposals should facilitate:
- The delivery of the Mayor's strategic target of 80 per cent of all trips in London to be made by foot, cycle or public transport by 2041.
- All development should make the most effective use of land, reflecting its connectivity and accessibility by existing and future public transport, walking and cycling routes, and ensure that any impacts on London's transport networks and supporting infrastructure are mitigated."
"The integration of land use and transport, and the provision of a robust and resilient public transport network are essential in realising and maximising growth and ensuring that different parts of the city are connected in a sustainable and efficient way. In order to help facilitate this, an integrated strategic approach to transport is needed, with an ambitious aim to reduce Londoners' dependency on cars in favour of increased walking, cycling and public transport use."
3.3.12 Policy T5 'Cycling' states: "Development Plans and development proposals should help remove barriers to cycling and create a healthy environment in which people choose to cycle. This will be achieved through:
- supporting the delivery of a London-wide network of cycle routes, with new routes and improved infrastructure.
- securing the provision of appropriate levels of cycle parking which should be fit for purpose, secure and well-located. Developments should provide cycle parking at least in accordance with the minimum standards."
3.3.13 A key concept of the new Draft New London Plan is the Mayor's 'Healthy Streets Approach' which has been adopted to:
- improve health and reduce health inequalities;
- reduce car dominance, car ownership and use, road danger, severance, vehicle emissions and noise;
- increase walking, cycling and public transport use;
- improve street safety, comfort, convenience and amenity; and
- support these outcomes through sensitively designed freight facilities.
3.3.14 Policy T2 of the Draft New London Plan requires all new developments to promote and demonstrate the application of Healthy Street and Active Travel approach, and this is discussed in further detail below.
3.3.15 The Draft New London Plan provides a revision to cycle parking standards that currently form part of the adopted London Plan. In respect of retail land uses the there is no material change to the currently applicable standards, however, the minimum cycle parking requirements for residential development would increase as a result of the adopted of the New London Plan.
3.3.16 Table 3.4 presents a summary of the Draft New London Plan's minimum cycle parking standards in respect of retail land uses that are of relevance to the proposed development.

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Table 3.4: Draft New London Plan Minimum Cycle Parking Standards - Retail
\begin{tabular}{|c|c|c|c|}
\hline Use Class & Description of use & Long-stay (e.g. for residents or employees) & Short-stay (e.g. for visitors or customers) \\
\hline & Food retail & From a threshold of 100 sqm: 1 space per 175 sqm gross external area (GEA) & From a threshold of 100 sqm: First 750 sqm: 1 space per 20 sqm; thereafter: 1 space per 150 sqm (GEA) \\
\hline A1 & Non-food retail & \begin{tabular}{l}
From a threshold of 100 sqm: first 1,000 sqm: 1 space per 250 sqm. \\
Thereafter: 1 space per \(1,000 \mathrm{sqm}\) (GEA)
\end{tabular} & From a threshold of 100 sqm: First 1,000 sqm: 1 space per 60 sqm; thereafter: 1 space per 500 sq.m (GEA). \\
\hline A2-A5 & Financial / professional services; cafés \& restaurants; drinking establishments; takeaways & From a threshold of 100 sqm: 1 space per 175 sqm (GEA) & From a threshold of 100 sqm: 1 space per 20 sqm (GEA). \\
\hline
\end{tabular}
3.3.17 Table 3.5 presents the Draft New London Plan's minimum residential cycle parking standards.

Table 3.5: Draft New London Plan Minimum Cycle Parking Standards - Residential
\begin{tabular}{|c|l|l|l|}
\hline \begin{tabular}{c} 
Use \\
Class
\end{tabular} & Description of use & Long-stay (e.g. for residents) & Short-stay (e.g. for visitors) \\
\hline & & \begin{tabular}{l}
1 space per studio and 1 bedroom/1 person unit \\
C3-C4
\end{tabular} & Dwellings (all)
\end{tabular} \begin{tabular}{l}
1.5 spaces per 1-bedroom 2-person unit \\
2 spaces per all other dwellings
\end{tabular}\(\quad 1\) space per 40 units \begin{tabular}{l} 
\\
\hline
\end{tabular}
3.3.18 Policy T6 of the Draft New London Plan states that "car parking should be restricted in line with levels of existing and future public transport accessibility and connectivity." In relation to redeveloped sites, it is stipulated that "existing parking provision should be reduced to reflect the current approach and not be re-provided at previous levels where this exceeds the standards set out in this policy."
3.3.19 Updated parking standards presented in the Draft New London Plan, in respect of retail and residential uses are summarised at Table 3.6 and Table 3.7.

Table 3.6: Draft New London Plan Maximum Parking Standards - Retail
\begin{tabular}{|l|l|}
\hline Location & Maximum parking provision \\
\hline \begin{tabular}{l} 
Inner London, Outer London Opportunity Areas, Outer \\
London retail below 500 sqm
\end{tabular} & Up to 1 space per 75 sqm gross internal area (GIA) \\
\hline Rest of outer London & Up to 1 space per 50 sqm (GIA) \\
\hline
\end{tabular}

Table 3.7: Draft New London Plan Maximum Parking Standards - Residential
\begin{tabular}{|l|l|}
\hline Location & Maximum parking provision \\
\hline Outer London Opportunity Areas & Up to 0.5 spaces per unit \\
\hline
\end{tabular}
3.3.20 TfL's Healthy Streets for London document outlines their new approach to transport and land use planning, introducing a system of policies and strategies that prioritise walking, cycling and the use of public transport. The Healthy Streets approach provides the framework for putting human health and experience at the heart of planning for the future of the city. It uses ten evidence-based indicators, as follows:
- "Pedestrians from all walks of life - London's streets should be welcoming places for everyone to walk, spend time in and engage in community life.
- People choose to walk, cycle and use public transport - Walking and cycling are the healthiest and most sustainable ways to travel. This will only happen if we reduce the volume and dominance of motor traffic and improve the experience of being on our streets.
- Clean air - Improving air quality delivers benefits for everyone and reduces unfair health inequalities.
- People feel safe - The whole community should feel comfortable and safe on our streets at all times.
- Not too noisy - Reducing the noise impacts of motor traffic will directly benefit health.
- Easy to cross - Making streets easier to cross is important to encourage more walking and to connect communities. People prefer direct routes and being able to cross streets at their convenience. Physical barriers and fast moving or heavy traffic can make the streets difficult to cross.
- Places to stop and rest - A lack of resting places can limit mobility for certain groups of people.
- Shade and shelter - Providing shade and shelter from high winds, heavy rain and direct sun enables everybody to use our streets, whatever the weather.
- People feel relaxed - A wider range of people will choose to walk or cycle if our streets are not dominated by motorised traffic, and if pavements and cycle paths are not overcrowded, dirty, cluttered or in disrepair.
- Things to see and do - People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art and where other people are using the street. They will be less dependent on cars if the shops and services they need are within a short distance."
3.3.21 Chapter 2 of Healthy Streets for London highlights that car ownership is the key factor that influences how often Londoners walk and cycle. The document states that car ownership has a bigger impact than gender, income, employment, ethnicity and disability on travel habits. The document establishes that most car trips made by Londoners could be undertaken on foot, or by cycle with nearly half of all trips made by London residents being possible by no more than a 10minute cycle.
3.3.22 The Healthy Streets approach seeks to find design solutions to minimise road danger, delivering streets where everyone feels safe walking, cycling and using public transport. Road danger disproportionately affects the number of people travelling on foot, by cycle or by motorcycle. Adopting a Vision Zero approach (working towards the elimination of road traffic deaths by reducing the dominance of motor vehicles on our streets) will serve to put the needs of vulnerable road users first.

Transport for London, Vision Zero Action Plan (July 2018)
3.3.23 The Mayor of London aims to eliminate deaths and serious injuries from the transport network, by 2041. This Vision Zero approach is based on the fundamental conviction that loss of life and serious injuries are neither acceptable nor inevitable. The Vision Zero ambition is inextricably linked to the Healthy Streets approach, which puts human health and experience at the heart of city planning.
3.3.24 The document identifies that Londoners face an even greater challenge to their health and wellbeing than that posed by traffic collisions. A lack of physical activity is now one of the biggest threats to our health, increasing the risk of developing a range of chronic diseases including diabetes, dementia, depression, heart disease and cancer. The Healthy Streets approach, alongside Vision Zero, seeks to tackle inactive lifestyles and encourage journeys to be made on foot or by cycle, in an environment that is conducive to these modes of travel.
3.3.25 The Vision Zero Action Plan goes on to detail strategies that target reducing the likelihood and severity of collisions, by lowering vehicle speeds and focusing action on the most dangerous locations, particularly junctions. In addition, the Action Plan employs a framework of interventions around five pillars of action, namely:
- Safe speeds;
- Safe streets;
- Safe vehicles;
- Safe behaviours; and
- Post-collision response.
3.3.26 The Development seeks to incorporate reasonable measures within its design to reduce risk to people, and in doing so it is intended that the Development will support TfL's Vision Zero Action Plan.

\subsection*{3.4 Local Policy}

\section*{London Borough of Hounslow Local Plan 2015 to 2030 (September 2015)}
3.4.1 The Borough's Local Plan (2015) sets out their adopted development control policies.
3.4.2 The Local Plan identifies that the Borough's over-arching transport objective is to "enable all those who live in or visit the area to travel safely and conveniently, whilst supporting environmentally sustainable economic growth and improving health".
3.4.3 Policy EC2 sets out the Borough's aims to develop an increasingly sustainable local transport network. This would be achieved by:
- 'Promoting 'car-free' or 'low car' development where appropriate, as well as car clubs and car-sharing schemes;
- Promoting the active management of car parking and travel demand in the borough
- Using the standards established in the London Plan for car parking, cycle parking, motorcycle parking, coach parking, and electric vehicle charging (or as updated by alterations to the London Plan)."
3.4.4 New development proposals would need to:

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- Demonstrate that they "are located appropriately with regard to public transport accessibility and capacity, road capacity and access to good quality walking and cycling networks.
- Demonstrate that adverse impacts on the transport network are avoided.
- Developments should provide a minimum number of cycle parking spaces and an appropriate maximum number of car parking spaces consistent with the standards in the London Plan.
- Incorporate design measures and facilities to promote cycling, in line with the London Plan."

\section*{Local Implementation Plan 2019-2041 (February 2019)}
3.4.5 The Local Implementation Plan (LIP) is a statutory document that sets out how the borough proposes to deliver the Mayor's Transport Strategy (MTS)in its area, as well as contributing to other local and sub-regional goals.
3.4.6 The council's objectives are for a transport network that is healthy, clean and green, which can be achieved by:
- "Reducing transport related emissions; improving the quality and accessibility of the public realm and maximising the opportunity for the transport system to improve health outcomes by removing barriers to the uptake of active travel;
- By reducing the number of people killed and seriously injured on our roads, contributing tothe Mayor's Vision Zero target;
- And by ensuring that the transport network operates in an efficient manner facilitating economic growth in the borough and unlocks space for new homes and jobs for all users, particularly through a shift from private to public transport."
3.4.7 Hounslow's LIP also underlines how the borough plans on meeting growing demands on the public transport network. Key ambitions to improve public transport accessibility (and hence reduce reliance on single occupancy car journeys) include:
- "05a. To work with TfL and other transport operators to improve bus and rail connectivity in those areas with the lowest PTAL and those with the highest potential for growth.
- 05b. To work with TfL to improve bus connections to new strategic infrastructure such as the Crossrail (Elizabeth Line).
- 05c. To work with TfL to enhance orbital and cross-borough bus services that provide residents access to employment and local services, including to Heathrow and health facilities, in a way that is competitive with the private car.
- 05d. To work with train operators to ensure that the frequencies of services meet demand without excessive crowding."

\section*{Draft Great West Corridor Local Plan Review (October 2017)}
3.4.8 The Draft Great West Corridor Local Plan Review (2017), written by LBH, sets out the vision, objectives and options to help guide future development in the area over the next 15 years. It sets out a range of planning policies that will support housing delivery, job creation and the provision of new infrastructures to serve the local community and new development.
3.4.9 In reference to Policy GWC5 Transport and Connectivity, the Borough has outlined a number of key improvements in order to support sustainable development and growth along the Great West Corridor:
- "Actively supporting and facilitating the delivery of new transport interchange sites. This could include safeguarding land for future station development proposed at: i. Golden Mile Station: Brentford - Mainline to Southall Crossrail Link ii. Lionel Road Station: Old Oak Common - Hounslow Overground Link.
- Improving cycling infrastructure throughout the area, specifically along the A315 (Cycle Superhighway 9) and other 'quietway' routes
- Working in partnership with TfL and bus service providers to improve the frequency and efficiency of the bus network to and through the Corridor
- Improving connectivity to the London Underground network through supporting the development of better links to the Piccadilly line, for example through the 'Boston Manor Boardwalk'.
- Actively encouraging walking and cycling through the provision of an attractive public realm that helps to link the Great West Corridor and surrounding neighbourhoods such as Brentford Town Centre, Brentford East and the River Brent Quarter better for those travelling on foot or by bike."
3.4.1 The Plan also includes commitments to support the expansion of bus services along and across the corridor. A key issue noted is the existing reliance on limited bus services into the area, with the exception of Brentford, Chiswick and Brentford East town centres. Increased bus services would help to reduce private vehicle traffic and increase the Public Transport Accessibility Levels (PTAL).

\section*{Great West Corridor Masterplan and Capacity Study (March 2019)}
3.4.2 The Great West Corridor Masterplan and Capacity Study (March 2019) sets out a vision and spatial framework for the Great West Corridor. Chapter 7 of the document considers 'transport and movement'.
3.4.3 The Masterplan has been produced with reference to the TfL Healthy Streets Approach and with reference to the healthy streets indicators.
3.4.4 To support the Masterplan two rail improvement projects have been identified which include:
- Golden Mile Rail Link - A link between the Crossrail station at Southall and a new station on the Great West Road.
- West London Orbital - A new overground service creating a route linking Crossrail and HS2. The route would serve Syon Lane and Brentford Station.
3.4.5 The Masterplan proposes significant improvements to bus services along the Great West Corridor.

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3.4.6 Cycle improvements are also included within the Masterplan. The Masterplan proposes cycle improvements along the A4, which could include:
- Improved surfacing;
- Improved crossing facilities and cycle priority; and
- The use of planting or barriers to mitigate air/noise pollution.
3.4.7 The Masterplan sets out the need for all new streets and public realm to consider cycle routes and for secure cycle parking to be provided within areas of public realm.
3.4.8 To create places that are considered walkable, the Masterplan proposes to use the Healthy Streets approach. To improve walking connections along the Great West Corridor the following is proposed:
- Clean air routes parallel to the A4;
- New bridge links across the railway and River Brent;
- New walking route across the West Cross Quarter, linking the Golden Mile Station to Site A;
- New walking route from Boston Manor Station to the Sky campus;
- Better integration and enhancement of the Grand Union Canal Walk;
- New connection from the Grand Union Canal Walk with Boston Manor Station;
- Internal connections within the Brentford Stadium Quarter;
- Improved access into Gunnersbury Park from the Brentford Stadium Quarter.

\subsection*{3.5 Summary}
3.5.1 A range of local, regional and national policy applies to the proposed development of the site. The design of the scheme has been informed by these policies, especially the Healthy Streets approach and associated indicators. This TA reflects the NPPF, setting out the opportunities available to promote sustainable travel, provide safe access for all, and establishing there are no severe residual impacts on the road network. As such there are no reasons in transport terms for why the proposed development should be refused planning permission.

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\section*{4 Site and Surroundings}

\subsection*{4.1 Preface}
4.1.1 The site is a rectangular plot of land located on the corner of Syon Lane and the Great West Road (A4), at Gillette Corner. It has an area of approximately 1.4 ha. The site is developed with a large single level Homebase store (4,180sqm), and a surface level car park which occupies the northern and western sides of the site. There is also an undercroft car park along the southern flank of the site. A total of circa 295 car parking spaces are currently provided at the site.
4.1.2 The site is bounded by the A4 Great West Road to the north and Syon Lane to the south-west. A car showroom is situated immediately to the east of the site, while a service road, Syon Gate way, extends along the south-eastern boundary.
4.1.3 The surrounding area is comprised of a mix of uses, including commercial and residential development. There are semi-detached houses on the western side of Syon Lane, opposite the site. Along the Great West Road, there is a variety of commercial and industrial uses, as well as some residential properties, and further along Syon Lane the uses are predominantly residential.
4.1.4 Syon Lane Railway Station is situated approximately 100 m to the south of the site, along Syon Lane. The station provides National Rail services that operate to London Waterloo, via locations including Brentford, Chiswick, Putney, Clapham Junction and Vauxhall. Destinations and journey times are detailed within Section 6.6. A traffic signal controlled crossing is provided on Syon Lane, to provide access to the station (Insert 4.1).

Insert 4.1: Syon Lane, Controlled Pedestrian Crossing at Syon Lane Station

4.1.5 Osterley Station provides access to the London Underground Piccadilly line service and is located within a 2 km walk of the site.

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4.1.6 The existing pedestrian network in the vicinity of the site predominantly caters for movements across the northern and western frontages of the site, on Syon Lane and Great West Road respectively. The footways are generally wide, and street lighting is provided throughout the surrounding area. Pedestrian connectivity to the southern frontage of the site is through a private access road (Syon Gate Way) whilst the eastern frontage is bound directly by the adjacent car showroom access road.
4.1.7 The public realm is generally in poor condition in the vicinity of Gillette Corner / at the northern boundary / north west corner of the site. In the context of Healthy Streets, the public realm currently detracts from all ten indicators:
- People choose to walk, cycle and use public transport;
- Pedestrians from all walks of life;
- Easy to cross;
- People feel safe;
- Things to see and do;
- Places to stop and rest;
- People feel relaxed;
- Not too noisy;
- Clean air; and
- Shade and shelter.
4.1.8 The development proposals will make significant improvements to the public realm in accordance with Healthy Streets principles. The specific issues include:
- the dominance of the A4;
- the worn condition of footway / uneven surfaces;
- the wide uncontrolled pedestrian crossing of the existing Homebase site access;
- lack of tactile paving at the existing Homebase site access;
- off-road cycle lane ending / entering the busy A4 at an inappropriate / unsafe location; and
- the unsafe appearance / condition of the existing subway.
4.1.9 In summary, the local highway in this location does not accord with Healthy Streets objectives and is generally not provided to recognised design standards. This will be significantly improved as a result of the proposed development.

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\subsection*{4.2 Local Highway Context}

\section*{Syon Lane}
4.2.1 Syon Lane is a local distributor road, which in the vicinity of the site has a north-west/ south-east alignment. Syon Lane is a single carriageway two-way road which extends between Osterley Park in the north and the A315 London Road at its southern extent. In the vicinity of the site, a 30 miles per hour (m.p.h.) speed restriction operates on Syon Lane.
4.2.2 The site is afforded a single point of vehicular access from Syon Lane.
4.2.3 In the vicinity of the site access, Syon Lane carriageway widens to around 13 m in width. A turning lane for traffic turning right into the site from Syon Lane is provided, and two ahead traffic lanes are provided for northbound vehicles. North and southbound bus stops are provided in the vicinity of the access, and Syon Lane is sufficiently wide to allow a car to navigate around a waiting bus.

Insert 4.2: Syon Lane - Looking North towards Homebase Site Access

4.2.4 The Homebase site access is located between Syon Lane Station and the A4 Great West Road, which are separated by around 220 m . In this section of Syon Lane carriageway, two traffic signal controlled pedestrian crossings are provided. A direct crossing is provided directly to the north of Syon Lane Station, approximately 100m from the site (refer to Inserts 4.1 and 4.2), and a staggered signalised pedestrian crossing is provided approximately 30 m north of the Homebase site access junction (Insert 4.3).

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Insert 4.3: Looking South towards Staggered Crossing and Homebase Site Access

4.2.5 The Homebase site access road provides a carriageway width of approximately 14 m at its junction with Syon Lane and includes a central reservation segregating inbound and outbound traffic. Dropped kerbs and tactile paving are provided at the existing site access junction.
4.2.6 On the western side of Syon Lane, opposite the Homebase site, there is resident permit holder parking, operating from Monday - Friday, 9am-6pm. This is part of the Syon Lane South (SLS) Controlled Parking Zone (CPZ). There are 11 spaces, including a Blue Badge holder space, along the western edge of Syon Lane, located between Syon Gate Way and the signalised crossing adjacent to the existing Homebase access.

\section*{Great West Road (A4)}
4.2.7 The A4 Great West Road is a two-way dual carriageway road, which forms part of the Transport for London Road Network (TLRN). The A4 Great West Road connects with the M4 at Brentford. and routes towards Central London to the east, and with Heathrow Airport to the west.
4.2.8 There are wide, level footways provided on both sides of the Great West Road. Both flanks of the A4 are provided with street lighting.
4.2.9 A segregated cycleway connects Osterley station to the junction of Syon Lane/Great West Road (Gillette Corner). A segregated cycleway is also provided on the southern side of the Great West Road, and these cycleways extend to the eastern side of the junction. While the cycleways are located to the east and west of Gillette Corner, the cycleways do not extend through Gillette Corner, and instead, they terminate and recommence either side of the junction.
4.2.10 Pedestrian crossing facilities are provided across the Great West Road at Gillette Corner. On the eastern side of the junction, an underpass is provided to allow pedestrians safe crossing. The underpass is illustrated in Insert 4.4.

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Insert 4.4: A4 Great West Road, Pedestrian Underpass

4.2.11 A staggered toucan crossing is provided to the north-west of the site which facilitates a north-south crossing of the A4 for pedestrians and cyclists. The crossing is illustrated in Insert 4.5.

Insert 4.5: A4 Great West Road, Toucan Crossing

4.2.12 At the north-east corner of the site, at the junction of the Great West Road (A4) and Harlequin Avenue, a traffic signal junction is provided that incorporates a staggered traffic signal controlled Toucan crossing across the A4. This junction also incorporates a signalised pedestrian crossing for east-west movements at the northern side of the junction, across Harlequin Avenue.
4.2.13 Approximately 400 m to the east of the site, a pedestrian footbridge with stepped access only is provided across the A4 Great West Road, providing access to Transport Avenue on the northern side of the carriageway.
4.2.14 A 40m.p.h. speed limit operates at the A4 in the vicinity of the site.
4.2.15 In seeking to identify trends in local traffic growth, reference can be made to traffic count data published by the Department for Transport (DfT). The DfT publishes annual traffic counts for the A4 Great West Road and these data sets have been reviewed to establish changes in travel

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demand on this highway from 2000 to 2018, the most recent data set published.
4.2.16 Inserts 4.6 and 4.7, illustrate the trend in traffic volumes on the A4 Great West Road at DfT traffic count sites 16111 and 75072. The data is presented in the form of Annual Average Daily Traffic (AADT) flow, and the data sets indicate that overall traffic flows on the A4 have declined between the year 2000 and 2018. A summary of total traffic volumes, disaggregated in respect of all vehicles and heavy goods vehicles, is presented in Appendix A.

Insert 4.6: DfT Count Data, A4 Great West Road (Count Site 16111 - West of Syon Lane)


Insert 4.7: DfT Count Data, A4 Great West Road (Count Site 16111 - East of Syon Lane)


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\section*{Syon Gate Way}
4.2.17 Through the Mayor's Air Quality Fund, the Mayor has supported the Cleaner Air Better Business (CABB) project to develop an interactive map of London that provides a low pollution walking option for any given journey specified. CABB undertook monitoring of clean air routes which showed between 30-60 per cent lower air pollutant concentrations on the clean air walking routes compared to main street routes.
4.2.18 Syon Gate Way has been identified as a "clean air route" in connecting journeys between Syon Lane and the A4.
4.2.19 Syon Gate Way is a privately managed access road, with a typical carriageway width of around 5.5 m , which routes along the southern perimeter of the site. This road provides access to parking facilities associated with commercial properties that are situated to the east of the site.
4.2.20 Syon Gate Way forms a junction with Syon Lane at a point approximately 90 m south of the existing Homebase site access junction. The intersection of Syon Gate Way and Syon Lane forms a simple priority junction and is illustrated in Insert 4.1.

\section*{Northumberland Avenue}
4.2.21 Northumberland Avenue is a two-way single carriageway road which forms a junction with Syon Lane on its western side, between Gillette Corner and the existing Homebase site access. Northumberland Avenue operates with a \(20 \mathrm{~m} . \mathrm{p} . \mathrm{h}\). zone and incorporates on-street car parking, which are subject to CPZ restrictions. Keep Clear road markings are provided on Syon Lane at its junction with Northumberland Avenue, as shown in Insert 4.8.
4.2.22 There are wide, level footways provided on Northumberland Avenue. Both sides of the carriageway are provided with street lighting.

Insert 4.8: Northumberland Avenue junction with Syon Lane


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\section*{London Road (A315)}
4.2.23 The A315 London Road is an arterial road that routes with an approximate east-west alignment approximately 500 m south of the site. To the east London Road connects to the A205 at Kew Bridge, and provides a connection with the M4 and A406 North Circular Road at Chiswick Roundabout. To the east, the A315 extends approximately 14km to Staines-upon-Thames and connects to the A30 and A308.

Car Dealership Access Road
4.2.24 A Skoda car dealership operates immediately to the east of the site, which is served by a two-way access from the A4, Great West Road. The access road flanks the eastern perimeter of the Homebase site. The access road forms a priority junction with the westbound carriageway of the A4 and operates as a left-in and left-out junction. Insert 4.9: Car Dealership Access Road -Left-in/ Left-out Junction with A4


\section*{On-street Parking (Waiting) Restrictions}
4.3.1 The site is surrounded by various categories of road, including strategic highway (A4), distributor road (Syon Lane) and residential access roads (Northumberland Avenue). Parking (waiting) restrictions are in place on some roads locally and these either prevent parking form taking place in areas that are not appropriate for this purpose, or they control who is permitted to park on-street.
4.3.2 The A4 Great West Corridor (GWC) forms part of TLRN and is therefore a 'red route' which is subject to 'no stopping at any time'.
4.3.3 Syon Lane (B454), from the junction with A4 up to Northumberland Avenue, forms part of the A4 'red route' and is hence subject to the same parking (waiting) restrictions as A4.
4.3.4 To the south-east of Northumberland Avenue, parking on Syon Lane is controlled by a mixture of double yellow line waiting restrictions, zig-zag markings associated with the pedestrian crossings, bus stops or defined parking bays in the residents parking zone SLS (on the westerns side of the carriageway only).
4.3.5 To the south, from the railway bridge, Syon Lane is not provided with on-street parking (waiting restrictions), however the carriageway width and traffic volume make it impractical to park on the carriageway during the day. No on-street car parking has been observed by RHDHV on this section of Syon Lane in the course of the preparation of this TA.
4.3.6 The Northumberland Estate road network; of which Northumberland Avenue forms its main distributing road, located to the south of the site from Syon Lane, is predominantly subject to single yellow line road markings that restrict waiting between the hours of 9:00am to 6:00pm Monday to Friday. Double yellow lines are provided to the entry of Northumberland Avenue and all its branches prohibiting waiting at any time.
4.3.7 Syon Gate Way, to the east of the site, is a private road and incorporates double yellow linemarkings at its intersection with Syon Lane.
4.3.8 The site is not located within an existing Controlled Parking Zone (CPZ) but is situated within the immediate adjacencies of an existing CPZ which, combined with the red route restrictions operational at the A4 and Syon Lane, significantly limit opportunities for on-street (kerbside) parking in the vicinity of the site.
4.3.9 A CPZ (Zone SLS) is operated by Hounslow Council between 9:00am-6:00pm Monday to Friday on streets to the south of Syon Lane, within Northumberland Estate 'area'. Parking within this zone consists of resident permit holder bays. On the western edge of Syon Lane, opposite the site, there is resident permit holder parking that forms part of the SLS CPZ.
4.3.10 A CPZ (Marlborough Road Zone) is enforced to the south of the site, in the area surround the southern section of Syon Lane. The hours of operation are Monday - Friday 9.30am-5.30pm.
4.3.11 A CPZ is also enforced at the Wyke Estate, between Tesco Osterley and Nishkam School. The hours of operation are Monday - Friday 9.30am-5:30pm.
4.3.12 There are also CPZs enforced in the area surrounding Osterley station. A map of relevant CPZ restrictions is shown in Insert 4.10.

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Insert 4.10: Local CPZ Map

4.3.13 There is no on-street 'pay and display' parking scheme in operation in the vicinity of the site, and no public car parks are provided locally, other than those serving the Homebase and Tesco development sites.
4.3.14 Free parking for customers on-site at Homebase is restricted to a maximum of two hours, and free parking within the Tesco development is restricted to a maximum of three hours.
4.3.15 Overall, the provision and use of car parking at the site and in the wider area is highly controlled. As a result there is little opportunity for free or long-stay public car parking to take place in the vicinity of the site.

\section*{Loading and Weight Restrictions}
4.4.1 Kerbside road markings (such as Traffic Signs Regulations and General Directions 2016 Diagram 1020.1 or 1019) that restrict loading are not provided on the streets surrounding the site.
4.4.2 An existing restriction on vehicles that weigh in excess of 5 tonnes is in operation on Syon Lane and Northumberland Avenue, between the hours of \(6: 30 \mathrm{pm}\) and 8am.

\subsection*{4.5 Existing Site Access}
4.5.1 The site is provided with a dedicated site access from Syon Lane. The site access currently operates with priority control (a give-way junction) and two exit lanes are provided from Homebase, accommodating left and right turning movements respectively.
4.5.2 Pedestrian access to the Homebase site is also primarily taken from the site vehicular access at Syon Lane. Additionally, a pedestrian access point is available at the northern perimeter of the site which accommodates access from the footway on the Great West Road.
4.5.3 Service vehicles currently use the site's only vehicular access, sharing this access with customer traffic. Service vehicles are provided with a dedicated on-site service yard.

\subsection*{4.6 Local Emerging Developments}
4.6.1 In consideration of the development project, a review has been undertaken of other emerging or committed development sites in the local area. These are developments that have received planning consent but are not constructed or those that are constructed but not fully occupied. LBH has advised on the committed development sites to be included in this assessment, and site details are provided in Appendix B. The committed development sites considered in this assessment are listed below. Reference is made here to the land use classes that related to the planning consent, rather than the land use classes that have been newly introduced.
- Former Syon Gate Service Station, Land at South of Gillette Corner, Great West Road, Isleworth TW7 5NP (Ref: 00505/AF/P28) - Erection of up to six storey building to provide Class B1 (Office) and Class B8 (self-storage) uses, with associated car parking and landscaping.
- New Horizons Court, Ryan Drive, Brentford, TW8 9EP (Ref: 02912/A/P1) - alterations and extensions to existing buildings - removal of café kiosk ad security hut; change of use of D8/9 to ancillary café and/or gym (classes A3/D2).
- 891 Great West Road, Isleworth London, TW7 5PD (Ref: 00505/891/P4) - Erection of four-storey building to provide 15 flats and associated landscaping.
- 4 and 8 Harlequin Avenue, Brentford, TW8 9EW (Ref: 00558/4-8/P1) - Construction of a six-storey building for Class B1b/B1c office use with car parking.
- Tesco Superstore, Syon Lane, Isleworth, TW7 5NZ (Ref: 01106/B/SCOPE1)
- Sky, Sites 6 \& 7, Grant Way, Isleworth, TW7 5QD (Ref: 00558/A/P69) - Non material amendment to allow alterations to Sky Labs building by accommodating photovoltaic panels, increase in height of the gantry, removal of the basement, removal of the link between Sky Labs and BiBB, increase number of trees to be planted.
- Bolder Academy, 1 MacFarlane Lane, Isleworth, TW7 5PN (Ref: 01106/W/P9) Demolition of club house and associated car park and MUGA, construction of a new part 2 - part 4 storey secondary school.
- 1 Commerce Road, Brentford, London, TW8 8LE (Ref: 00297/H/P13) - Redevelopment to provide a five to seven-storey building comprising 76 flats and 138 square metres of square metres flexible industrial, research and development or office floorspace in use classes B1a, B1b, or B1c, with associated parking and landscaping.
4.6.2 For each committed development site, the associated planning application documentation has been reviewed and the associated traffic data extracted, in order that the associated traffic movements can be considered as part of the assessment of future traffic conditions on the highway. Insert 4.11 details the locations of the identified committed development sites.

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Insert 4.11: Committed Development Sites

4.6.3 The planning documentation for all emerging development projects detailed above shows a commitment to walking, cycling and public transport modes, in accordance with Healthy Streets principles. The provision of an attractive public realm is also a general theme that can provide improved connectivity for pedestrians and cyclists and generally strengthen the active travel network in the locality.

\subsection*{4.6.3.1 The Great West Corridor Opportunity Area}
4.6.4 The 'Great West Corridor Opportunity Area is identified in the New London Plan as providing the potential for around 7,500 new homes and 14,000 new jobs. Both the site and Tesco Osterley are located within this Opportunity Area
4.6.5 The London Plan states that "The Mayor will provide the support and leadership to ensure Opportunity Areas deliver their growth potential for Londoners. He will promote and champion the areas as key locations for investment, and will intervene where required so that an ambitious, imaginative and inclusive approach is taken to accelerate and realise their growth and development."
4.6.6 It is therefore recognised that additional development sites, in addition to those detailed above, are likely to come forward in the area, in due course. All new development that comes forward as part of the Opportunity Area would be subject to individual planning application submission, which would include an assessment of development transport impacts.
4.6.7 To support the development of the Opportunity Area, transport infrastructure improvements are being considered by LBH and TfL, and these are summarised in Section 8 of this report.

\section*{5 Transport Planning for People}

\subsection*{5.1 Preface}
5.1.1 The core principles of the 'Healthy Streets' Approach are putting people first, prioritising walking, cycling and public transport over private vehicles. This approach seeks to take account of the various classifications of people; their travel characteristics and their propensity to change their mode of travel over time.
5.1.2 Within the context of the above, in this Section reliance is made on the Transport Classification of Londoners (TCoL) multi-modal customer segmentation tool developed by TfL. The TCoL has been designed to categorise Londoners on the basis of the travel choices they make, and the motivations for making those decisions.
5.1.3 In total there are nine customer segments described in the TCoL report. The customers segments that are considered to be likely users of the development are listed below:
- Suburban moderation - Families with children, High car, some bus. Average level of change.
- Settled suburbia - Lower income families, high car. Below average level of change.
- Family challenge - Low income families, high bus, average others. Higher level of change.
- Detached Retirement - 'Empty Nest’/retired, very high car. Very low levels of change
- Students and Graduates - Students and young grads. Low car, high bus/walk. Average level of change.
5.1.4 The TfL classification tool assessment report suggests that the Borough has a mixed profile in terms of user types and transport usage. Car usage is generally high with an 'average' propensity towards change (i.e. mode shift).
5.1.5 Notwithstanding the above, in view of the significant emerging developments in the local area, both in terms of employment and transport options, there is potential for a change in attitudes towards sustainable transport options. This is particularly relevant for new development schemes, where car parking provision will be low and an emphasis will be placed on the ability for residents to live car free lifestyles.

\subsection*{5.2 Active Travel Zone}
5.2.1 The purpose of an Active Travel Zone (ATZ) assessment is to establish what transport connections and local amenities would be accessible to future residents and employees at the site, and to establish whether these facilities would be sufficient for employees to live a 'car free' lifestyle.
5.2.2 The ATZ for the site is presented as a series of illustrated maps demonstrating how people of all abilities can make every day journeys from the site using the Active Travel network. The ATZ Assessment is contained within Appendix C of this document.
5.2.3 The ATZ assessment considers an area covered by a 20-minute cycle from the site, and considers pedestrian isochrones. The assessment considers access to local public transport connections, including bus stops and local stations.

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5.2.4 ATZ Map 1 illustrates a 20-minute cycle isochrone from the site, with the following key points of interest identified:
- London Underground stations;
- National Rail;
- Bus stops;
- Local Schools;
- Proposed Bolder Academy;
- Proposed Golden Mile Station;
- Places of Worship;
- Strategic Cycle Network;
- Transport for London Road Network (TLRN);
- London 2015 town centres; and
- Greenspace.
5.2.5 The ATZ Map 1 underlines that a variety of services, amenities and local transports links are accessible within a 20-minute cycle catchment of the site. ATZ Map 1 can be seen in Insert 5.1, and is provided at a higher resolution at Appendix D.

Insert 5.1: ATZ Map 1

5.2.6 ATZ Map 2 is a more localised map showing the closest and most convenient stations, bus stops, facilities, amenities and green spaces. Also shown on this plan are:

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- Personal injury collision data derived from TfL;
- Routes to key destinations; and
- Local bus stops

\subsection*{5.2.7 ATZ Map 2 can be found in Insert 5.2 and Appendix D.}

Insert 5.2: ATZ Map 2

5.2.8 A total of ten Key Destination Routes have been identified within the ATZ study area. The key destinations and the routes to the destinations have been identified as:
- Syon Lane Station and Bus Stops A/B - Syon Lane Station provides access to National Rail services direct to London Waterloo, Richmond and Weybridge. The station is approximately 100 m south of the site.
- Marlborough School;
- Bus Stops X/W on London Road/Syon Park;
- Bus Stops C/D on Great West Road;
- Brentford Town Centre/proposed C9 cycle route - Brentford Town Centre provides a range of services and amenties easily accessble to the site;
- West Middlesex Hospital;
- Proposed Golden Mile Station - A link between the Crossrail station at Southall and a new station on the Great West Road;

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- Boston Manor Park;
- Proposed Bolder Academy;
- Sky Campus - a key employment centre in the local area;
- Osterley Station - provides access to Piccadilly line service;
- Place of Worship;
- Nishkam School;
- Bus Stop L/Tesco Osterley.
5.2.9 ATZ Map 3 depicts the area surrounding the site, the key walking routes, 5, 10 and 15 minute walking catchments, committed developments in the local area and TfL permeable neighbourhoods in the vicinity of the site.

\subsection*{5.2.10 ATZ Map 3 can be seen in Insert 5.3 and Appendix D.}

Insert 5.3: ATZ Map 3

5.2.11 ATZ Maps 2 and 3 establish that public transport connections are accessible on foot from the site. There are bus stops directly adjacent to the site on Great West Road and Syon Lane, within a 50m walk distance. Bus stops on London Road, adjacent to Syon Park, are also accessible to the site, approximately 600 m to the south.
5.2.12 Syon Lane Station is located approximately 100 m to the south of the site. Furthermore, Osterley Underground Station provides access to the Piccadilly Line service and is within 2 km of the site. The H91 service, to the west of the site along Great West Road, from Gillette Corner, provides a direct bus route to the station.
5.2.13 Within a 2 km radius of the site there are a number of services and amenities. As noted throughout, Tesco Osterley is within a 500 m distance of the site. There are shops and cafes available on Gillette Corner, on London Road, as well as towards Brentford High Street.
5.2.14 In respect of access to healthcare facilities, West Middlesex University Hospital sits within 1 km to the south of the site.
5.2.15 Further to the above, there are a number of places of worship situated within a 1 km distance from the site.
5.2.16 In summary, the maps demonstrate that the site is located within a walking distance of a number of local centres, public transport infrastructure, food, shopping, healthcare facilities and places of worship.

\subsection*{5.3 ATZ Neighbourhood Photography}
5.3.1 A detailed site visit with neighbourhood photography, including 'point of view' (POV) photographs was undertaken in September 2019. The POV neighbourhood photography, taken at 150m intervals along the Key Destination Routes is provided within the ATZ Assessment report provided in Appendix C.
5.3.2 One of the key areas identified for improvement was the underpass at Gillette Corner, which provides a crossing of the A4 on the eastern side of the junction. This is observed to be a highly trafficked route.
5.3.3 The Key Destination Routes have been critiqued with references to TfL's ten Healthy Streets indicators and the full review is presented within the ATZ report in Appendix C.

\subsection*{5.4 Highways Safety}
5.4.1 The personal injury collision record for the local highway has been reviewed, with data obtained from TfL. The data covers a five-year period up to the \(31^{\text {st }}\) December 2018. An analysis of the Personal Injury Collision (PIC) data has been undertaken to ascertain If there are any highway safety issues on the local highway network in the vicinity in the site. The full data is contained within Appendix E.
5.4.2 For the purpose of this assessment, the study will focus on the ATZ Key Destination Routes. As a number of Key Destination Routes follow the same paths, these routes and their associated PICs have been evaluated together. A Key Destination Route along Quakers Lane (over the train line to Marlborough School has been omitted as the route is largely removed from the highway and also overlaps with Route 4.

\section*{Key Destination Routes 1, 2 and 3}
5.4.3 The following three Key Destination Routes are identified along with an anticipated desire to south and east of the site following Syon Lane south, and left onto London Road, towards Brentford.

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- Key Destination 1: Syon Lane station and bus stops A/B;
- Key Destination 2, Syon Park, Bus stops X/W; and
- Key Destination 3, Brentford town centre/proposed C9 cycle route.
5.4.4 A total of 83 PICs were recorded on the route from the site to Brentford town centre. Of these PICs, 77 were recorded as slight severity incidents, while and 6 were identified as serious collisions. No fatal injuries were recorded on these routes. A summary of recorded collisions is presented in Table 5.1.

Table 5.1: Route 1,2,3 PIC Data
\begin{tabular}{|l|c|c|c|c|}
\hline \multicolumn{1}{|c|}{} & \multicolumn{3}{|c|}{ Accident severity } \\
\hline & \multicolumn{3}{|c|}{ Cluster location } & Slight \\
\cline { 2 - 4 } & Serious & Fatal & \\
\hline Syon Lane J/W Spur Road & 11 & 3 & 0 & 14 \\
\hline Syon Lane J/W London Road & 14 & 0 & 0 & 14 \\
\hline \begin{tabular}{l} 
London Road J/W Field \\
Lane/Brent Lea
\end{tabular} & 13 & 1 & 0 & 14 \\
\hline \begin{tabular}{l} 
London Road J/W Commerce \\
Road
\end{tabular} & 2 & 3 & 0 & 5 \\
\hline \begin{tabular}{l} 
Brentford High Street (from \\
The Ham to Alexandra Road)
\end{tabular} & 35 & 1 & 0 & 36 \\
\hline Total & 77 & 6 & 0 & 83 \\
\hline
\end{tabular}
5.4.5 The recorded collisions can be summarised as followed:
- 15 PICs involved pedestrians (13/15 were slight, two were serious)
- 19 PICs involved cyclists (17/19 were slight, two were serious)
- 18/83 occurred when it was dark, 65/83 occurred during daylight
5.4.6 Of the eight serious PICs, two were recorded as incidents involving cyclists and two involved pedestrians. The description of these collisions is summarised below.
- A collision involving a pedestrian was recorded in April 2014. The location was at Syon Lane junction with (J/W) Spur Road. The incident occurred in daylight, the weather was fine and the road was dry. All three recorded serious PICs at this location resulted from this incident. The incident was described as a vehicle 1 stopping for a pedestrian at the pedestrian crossing, being hit from behind by vehicle 2, pushing vehicle 1 into the pedestrian. The cause of vehicle 2 colliding with vehicle 1 was noted as a combination of carelessness, recklessness, failure to judge speed and distraction outside the vehicle.
- A collision involving a pedestrian was recorded in February 2018. The location was at Commerce Road's J/W London Road. The conditions were daylight, the weather was fine and the road was dry. The collision was described as pedestrian hit at pelican crossing by a driver who failed to look properly.
- A collision involving a cyclist was recorded in June 2018. The location was London Road J/W Brent Lea. The conditions were daylight, the weather was fine and the road dry. The only information regarding this incident was that the cyclist skidded.
- A collision involving a cyclist was recorded in June 2018. The location was High Street J/W Alexandra Road. The conditions were recorded as daylight, the weather was fine and the road was dry. No description of the event has been logged.
5.4.7 Regarding highways infrastructure and safety for pedestrians and cyclists, there does not appear to be any common causality for collisions based on the existing highway layout.
5.4.8 Furthermore, no specific locations have been identified at these routes that demonstrate higher rates of PICs. It is noted that 11 of the 35 slight PICs recorded on Brentford High Street that to form a cluster were involved in a single incident involving a bus.
5.4.9 Improvements to crossing facilities on Syon Lane, adjacent to the station, appears to have also aided pedestrian safety. Of the 14 recorded PICs, 8 were recorded at this location, including the three serious incidents described at paragraph 5.4.6 occurred at the zebra crossing adjacent to Syon Lane station. A signal-controlled pelican crossing replaced the zebra crossing in 2016 and since then only a single slight PIC has been recorded at this location.
5.4.10 Due to the nature of the incidents described above and overall analysis of the PIC data, it can be concluded that there are no causal factors that the proposed development would exacerbate.

\section*{Key Destination Route 4}
5.4.11 Key Destination Route 4, to Marlborough School, follows a desire line from Syon Lane, south along Spur Road, onto London Road, then turning right into Darcy Road towards the School. A total of 47 PICs were recorded on the route.

Of the 47 PICs, 41 were logged as being of slight severity and 4 were recorded as serious collisions. No fatal injuries were recorded within the study area. A summary of the recorded collisions is presented in Table 5.2.

Table 5.2: Route 4 PIC data
\begin{tabular}{|l|c|c|c|c|}
\hline \multirow{2}{*}{ Cluster Location } & \multicolumn{3}{|c|}{ Accident Severity } & \\
\cline { 2 - 5 } & Slight & Serious & Fatal & Total \\
\hline \begin{tabular}{l} 
Syon Lane (from site) and \\
Spur Road
\end{tabular} & 15 & 3 & 0 & 18 \\
\hline \begin{tabular}{l} 
Spur Road J/W London \\
Road/Twickenham Road
\end{tabular} & 17 & 3 & 0 & 20 \\
\hline \begin{tabular}{l} 
London Road J/W \\
Darcy/Turnpike/Teeside Road
\end{tabular} & 9 & 0 & 0 & 9 \\
\hline Total & 41 & 6 & 0 & 47 \\
\hline
\end{tabular}
5.4.12 The recorded collisions can be summarised as follows:
- 10 PICs involved pedestrians (eight were slight, two were serious).
- 9 PICs involved cyclists (eight were slight, one was serious).
- Of the 47 PICs, 11 occurred when it was dark and 36 occurred during the hours of daylight.
5.4.13 Of the six recorded serious PICs, two involved pedestrians, one involved a cyclist. A description of these collisions was recorded:
- A collision involving a pedestrian was recorded in April 2014. The location was at Syon Lane junction with (J/W) Spur Road. The incident occurred in daylight, the weather was fine and the road was dry. All three recorded serious PICs at this location resulted from this incident. The incident was described as a vehicle 1 stopping for a pedestrian at the pedestrian crossing, being hit from behind by vehicle 2, pushing vehicle 1 into the pedestrian. The cause of vehicle 2 colliding with vehicle 1 was noted as a combination of carelessness, recklessness, failure to judge speed and distraction outside the vehicle. NOTE: This incident is also associated with Route 1, 2 and 3 discussed above.
- A collision involving a cyclist was recorded in 2015. The location of the incident was at the J/W London Road, Spur Road and Twickenham Road. The collision occurred during daylight hours when the weather was fine and the road was dry. The collision was described as a vehicle turning into a private entrance across the cyclist who had insufficient reaction time to stop.
- A collision involving a pedestrian was recorded in 2017. The incident occurred at the J/W London Road, Spur Road and Twickenham Road. The collision occurred in daylight when the weather was fine and the road was dry. The description of this collision concluded that the pedestrian did not cross at provided signal crossing and failed to look properly.
5.4.14 Regarding highway infrastructure and safety for pedestrians and cyclists, there does not appear to be any common causality for collisions based on existing highways design. Furthermore, as described in section 5.4.9, amendments to the pedestrian crossing at Syon Lane J/W Spur Road has led to fewer PICs.
5.4.15 At the relatively highly-trafficked junction of London Road, Twickenham Road and Spur Road, the cluster of 'slight' pedestrian and cyclist PICs appear largely to be caused by individual mistakes four of the six incident records note pedestrians as stepping out unsafely onto the carriageway. Therefore, due to the nature of the incidents described, it can be concluded that there are no causal factors that the proposed development would exacerbate.

\section*{Key Destination Route 6}
5.4.16 Route 6 includes three Key Destinations in relation to the site; bus stops C/D, proposed Golden Mile Station and Boston Manor Park.
5.4.17 The proposed Golden Mile station (refer to Section 7) and Boston Manor Park both follow a desire line along Great West Road and are directly adjacent to one another. Boston Manor Park is accessed at Transport Avenue, where a path allows pedestrians to walk along the Grand Union Canal and over Boston Manor Footbridge to the park.
5.4.18 This desire line includes bus stops C/D adjacent to the site, which provide access to the H91 bus service. Stop D which serves the eastbound H91 service requires crossing the A4 at the signalcontrolled crossing adjacent to the site. The closest and relevant study area for PICs at this location is at Harlequin Avenue J/W the A4. The PIC data further along this route is only relevant for access to the proposed Golden Mile Station and Boston Manor Park.
5.4.19 During the study period, 17 PICs were recorded along Route 6,13 of which were identified as resulting in a 'slight' injury, while four were considered to result in a 'serious' injury. No fatal collisions were recorded on this route. A summary of recorded collisions is presented in Table 5.3.

Table 5.3: Route 6 PIC data
\begin{tabular}{|l|c|c|c|c|}
\hline \multirow{2}{*}{ Cluster Location } & \multicolumn{3}{|c|}{ Accident Severity } \\
\cline { 2 - 5 } & Slight & Serious & Fatal \\
\hline A4 J/W Harlequin Avenue & 4 & 2 & 0 & 6 \\
\hline A4 J/W Shield Drive/West \\
Cross Way
\end{tabular}
5.4.20 The recorded collisions can be summarised as follows:
- One PICs involved a pedestrian, the incident was slight.
- Five PICs involved cyclists, of which all were slight.
- 14 of the 17 PICs occurred during daylight hours.
- The two serious PIC incidents, involving car driver and passenger, recorded at A4 J/W Harlequin Avenue occurred at night in wet weather. Car was travelling at excess speed and the driver lost control.
5.4.21 Regarding the cycling and pedestrian PICs, three of the five collisions involving cyclists were described as cyclists being clipped by vehicles entering or exiting Shield Drive, Harlequin Avenue or Transport Avenue. It is considered that clear demarcation of the segregated cycle lanes, clear lane and stop sign markings, and a suitable indication of right of way could help reduce risk of cyclist incidents.
5.4.22 Given that the dual carriageway of the A4 Great West Road comprises seven lanes of 40m.p.h. traffic, safe crossing must be undertaken at defined points, which in this case would be at the junction of Syon Lane and Great West Road, or over the pedestrian footbridge provided close to Transport Avenue. This is reflected by low frequency of pedestrian/cyclist PICs for the volume of traffic along this route. Therefore, it can be concluded that this route is considered safe for active travel modes.

\section*{Key Destination Route 7}
5.4.23 This route has two Key Destinations along its desire line, Osterley Station and a local place of worship.

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5.4.24 Key Destination Route 7 connects the site with Osterley station and, which follows the desire line west from the site along Great West Road.
5.4.25 A local place of worship, St Francis of Assisi Church is also located along this desire line. In relation to this analysis, the place of worship is located in close proximity to the A4 J/W Syon Park Gardens. Therefore, any PICs which occur after this point are not relevant for this Key Destination.
5.4.26 Within the study's period of time, 62 PICs have been recorded along this Key Destination Route, of which 54 were slight, six were serious with two fatal collisions. A summary of recorded collisions is presented in Table 5.4

Table 5.4: Route 7 PIC data
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow{2}{*}{Cluster Location} & \multicolumn{3}{|c|}{Accident Severity} & \multirow{2}{*}{Total} \\
\hline & Slight & Serious & Fatal & \\
\hline A4 J/W Syon Park Gardens & 7 & 1 & 1 & 9 \\
\hline A4 J/W Wood Lane & 16 & 0 & 1 & 17 \\
\hline A4 J/W Ridgeway Road & 7 & 1 & 0 & 8 \\
\hline A4 J/W St Mary's Crescent & 2 & 0 & 0 & 2 \\
\hline A4 J/W Thornbury Road & 15 & 4 & 0 & 19 \\
\hline A4 J/W Osterley Court/Station & 7 & 0 & 0 & 7 \\
\hline Total & 54 & 6 & 2 & 62 \\
\hline
\end{tabular}
5.4.27 The recorded PIC can be summarised as follows:
- Eight PICs involved pedestrians, five of which were slight, one serious and two were fatal collisions.
- Three PICs involved cyclists, all three of these collisions were deemed slight.
- 33 of the 62 PICs were recorded in daylight hours, with the remaining 29 taking place during hours of darkness.
5.4.28 The two fatal collisions both involved pedestrians, the description of these events is as follows:
- A collision occurred on the Great West Road J/W Wood Lane, in 2015. The collision took place at night, the weather was fine and the road was dry. It is understood that the collision was caused by a vehicle travelling on the wrong side of the road, colliding with a pedestrian stepping into the road. This collision took place at a pedestrian crossing.
- A collision occurred on the Great West Road J/W Syon Gardens, in 2015. The collision took place at night when the weather was fine and the road surface was dry. It is understood that the incident took place as a result of two vehicles racing, which led to vehicle 1 colliding with a crossing pedestrian.
5.4.29 While there is a cluster of collisions at the junction between Great West Road and Wood Lane, only three involved pedestrians or cyclists. Other than the 'fatal' incident described above the other two incidents were defined as resulting in 'slight' injury. Of the 17 collisions at this junction, 12 involved cars. As a result, there does not appear to be any noticeable trend leaning towards any pedestrian/cycling safety issues at this junction.
5.4.30 On the section of highway between Syon Lane and Wood Lane, where Great West Road intersects Syon Park Gardens, a relatively low frequency of PICs is observed.
5.4.31 In general, as noted in the collision descriptions, it is reckless driving, as opposed to highway layout, that is logged as the key causality for the serious/fatal incidents.
5.4.32 There were six serious collisions along this route, one of which involved a pedestrian. This incident is described below.
- The pedestrian collision occurred at Great West Road J/W Syon Park Gardens, in 2017. The collision occurred at night when the roads were wet. There was no collision description available for review, however, key contributing factors indicated that a pedestrian failed to look properly while crossing and was not using a formal crossing facility.
5.4.33 Overall, this route has a relatively low frequency of pedestrian and cyclist PICs. While there have been serious and fatal incidents, the description of these events suggests that a failure to look properly, crossing the road/not at a crossing and reckless driving were the main causes of the collisions recorded at this Key Destination Route.

\section*{Key Destination Routes 8, 9, 10 and 11}
5.4.34 Key Destination Routes 8, 9, 10 and 11 provides access to the Sky Campus, Proposed Bolder Academy, Nishkam School and Osterley Park respectively.
5.4.35 Key Destination Routes 8, 9, 10 and 11 all follow a desire line north along Syon Lane. There were no recorded PICs on Grant Way or Macfarlane Lane, on which the Sky campus and proposed Bolder Academy are or will be located.
5.4.36 Contained within the records of the studied period of time, 76 documented PICs were recorded, of which 73 were slight, three were serious and no fatal incidents were recorded. A summary of recorded PICs is presented in Table 5.5.

Table 5.5: Route 8,9,10,11 PIC Data
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow{2}{*}{Cluster Location} & \multicolumn{3}{|c|}{Accident Severity} & \multirow{2}{*}{Total} \\
\hline & Slight & Serious & Fatal & \\
\hline Syon Lane J/W Northumberland Avenue & 7 & 2 & 0 & 9 \\
\hline Syon Lane/Great West Road Junction & 43 & 1 & 0 & 44 \\
\hline Syon Lane J/W Grant Way & 10 & 0 & 0 & 10 \\
\hline Syon Lane J/W Macfarlane Lane & 6 & 0 & 0 & 6 \\
\hline Syon Lane J/W Windmill Lane/Jersey Road & 7 & 0 & 0 & 7 \\
\hline Total & 74 & 3 & 0 & 76 \\
\hline
\end{tabular}
5.4.37 The PIC data can be summarised as follows:
- Seven PICs along these routes involved pedestrians, of which six were slight and one was a serious collision.
- Three PICs involved cyclists, of which all three were recorded as resulting in 'slight' injury.
- Of the 11 incidents, six collisions involving pedestrian or cyclists on this route occurred at the junction of Syon Lane and Great West Road.
- Three ‘slight’ active travel mode PICs were recorded at Grant Way.
- No active travel mode PICs were recorded at Macfarlane Lane, or in the vicinity of Nishkam School.
- One slight pedestrian PIC was recorded at the junction where Syon Lane J/W Jersey Lane, adjacent to Osterley Park.
- 24 of 76 PICs occurred at night, with the remaining 52 occurring in daylight hours.
5.4.38 There were three serious collisions along these four routes, of which one involved a pedestrian:
- The pedestrian collision occurred on the junction of Syon Lane and Great West Road, in 2015. The collision occurred in daylight when the weather was fine and the road was dry. The incident was described as the vehicle being unable to avoid drunken pedestrian wandering across live traffic north to south.
5.4.39 Overall, the PIC data indicates that the route from the site north along Syon Lane is relatively safe for walking and cycling modes. Only one serious active travel mode collision was recorded during the study period and in this particular instance, it was a pedestrian who had their judgement impaired by alcohol.
5.4.40 Furthermore, while there is a large cluster of collisions recorded at the heavily trafficked Syon Lane/Great West Road junction, 38 of the 44 PICs involved motor vehicles. The crossing facilities at this junction, moving south to north, include a signal-controlled pelican crossing and an underpass. As a result conflict between pedestrians and motor vehicles is low.
5.4.41 On the remainder of the desire line, from Great West Road through to Osterley Park, along Syon Lane, there is only an additional four slight active travel mode PICs. As a result, there are no substantial concerns regarding pedestrian or cycle safety along this route.

\section*{Key Destination Route 12}
5.4.42 Key Destination Route 12 provides a route from the site West Middlesex Hospital. The route follows a desire line south along Syon Lane/Spur Road, across London Road, then south along Twickenham Road towards the hospital.
5.4.43 Contained within the study period, 58 PICs were recorded, of which 52 were slight and 6 were serious incidents. No fatal PICs were recorded along this route. A summary of recorded PICs is shown in Table 5.6.

Table 5.6: Route 12 PIC Data
\begin{tabular}{|l|c|c|c|c|}
\hline \multirow{2}{*}{ Cluster Location } & \multicolumn{3}{|c|}{ Accident Severity } & \\
\cline { 2 - 5 } & Slight & Serious & Fatal & Total \\
\hline \begin{tabular}{l} 
Syon Lane (from site) and \\
Spur Road
\end{tabular} & 15 & 3 & 0 & 18 \\
\hline \begin{tabular}{l} 
Spur Road J/W London \\
Road/Twickenham Road
\end{tabular} & 17 & 3 & 0 & 20 \\
\hline \begin{tabular}{l} 
Twickenham Road J/W Park \\
Road
\end{tabular} & 7 & 0 & 0 & 7 \\
\hline \begin{tabular}{l} 
Twickenham Road J/W \\
Amhurst Gardens/Hospital \\
Entrance
\end{tabular} & 13 & 0 & 0 & 13 \\
\hline Total & 52 & 6 & 0 & 58 \\
\hline
\end{tabular}
5.4.44 Of the six recorded serious PICs, two were pedestrians, one was a cyclist. All of these incidents are described in section 5.4.13, as the two routes follow the same desire line from the site.
5.4.45 In relation to PICs involving active travel modes at Twickenham J/W Park Lane and the Hospital entrance:
- At Park Lane three slight incidents were recorded, two involving cyclists, and one pedestrian incident. One incident involving a cyclist was caused by poor conditions snow/fog/sleet, imparing judgment, leading to a collision. Another was caused by a stationary vehicle obstructing the view of the cyclist. The other incident did not have a desription.
- At the Hospital Entrance eight slight incidents were recorded, five cyclist PICs and three pedestrian PICs. From the eight collisions, five descriptions were available. The causes of the incidents include defect to vehicle, sudden braking/careless driving and illness of driver, leading to a PIC.
5.4.46 Regarding highway infrastructure and safety for pedestrians and cyclists, there does not appear to be any common causality for collisions based on existing highways design. Furthermore, as described in section 5.4.9, amendments to the pedestrian crossing at Syon Lane J/W Spur Road has led to fewer PICs.

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5.4.47 At the relatively highly-trafficked junction of London Road, Twickenham Road and Spur Road, the cluster of 'slight' pedestrian and cyclist PICs appear largely to be caused by individual mistakes four of the six incident records note pedestrians as stepping out unsafely onto the carriageway.
5.4.48 There were no serious PICs recorded between the London Road junction and West Middlesex Hospital. Of the 11 overall slight PICs, there were no common causalities leading to incidents. As a result there are no observable factors negatively affecting pedestrian/cyclist safety.
5.4.49 In conclusion due to the nature of the incidents described above and overall analysis of the PIC data (including a review of accident causation factors), it can be concluded that there are no observable accident trends that point to defects in the design of the highway that can be directly linked to negatively affecting highway safety. As such the evidence presented by the PIC data suggests that there are no causal factors that the proposed development would exacerbate. Notwithstanding this outcome, this report has set out ways in which the study area would be improved from a highway design perspective in order to further reduce the risk of PICs, and improve the "People feel safe" Healthy Streets indicator.

\section*{\(6 \quad\) Non-car Modes of Travel}

\subsection*{6.1 Preface}
6.1.1 The planning process at the national and local level aims to ensure that development sites are accessible by a range of sustainable transport modes. Accessibility to attractive non-car modes is at the core of the Healthy Streets approach. In this instance, the site is well-positioned in terms of proximity to public transport services, as well as access to good pedestrian and cycle infrastructure.

\subsection*{6.2 Opportunities for Walking and Cycling}
6.2.1 The Institution of Highways and Transportation guidance 'Providing for Journeys on Foot' 2000 provides guidance of widely considered acceptable walk distances in relation to local amenities and key services. The document suggests that the average length of a walking journey is 1 kilometre (km). It further recommends a preferred maximum walking distance of 2 km for commuting journeys and 1.2 km for other journey destinations.
6.2.2 The National Travel Survey (NTS) (2017) guidance states that walking is particularly significant in urban areas due to close proximity to basic amenities. Walking statistics in London support this, as around \(33 \%\) of all journeys are made on foot. This is largely due to high population density and low car-use in London, relative to the rest of the UK.
6.2.3 Syon Lane railway station is considered to be a key destination for pedestrians. The route to Syon Lane railway station is along Syon Lane, where approximate 2 m wide street lit footways are located on both sides of the carriageway. Large sections of the footway on Syon Lane are separated from the carriageway by a grass verge.
6.2.4 In terms of access on foot to local stations, it is relevant to consider data published in the National Travel Survey (NTS) relating to multi-stage trips. A summary of that data is presented in Insert 6.1 below and this confirms that \(84 \%\) of trips of up to one mile (1,600m) to stations are undertaken on foot, with \(14 \%\) of trips of over one mile also being undertaken on foot. In view of this and the Institution of Highways and Transportation guidance referenced above, it is considered that Osterley Underground Station, located approximately 1,800m west of the site along Great West Road, would be a feasible option for pedestrian access by some future residents and staff based at the site.

Insert 6.1: NTS Data -Journeys to Stations on Foot, as Part of a Multi-Stage Trip


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6.2.5 Pedestrians routing southbound towards the proposed Tesco store would use the underpass beneath the Great West Road. The underpass enables pedestrians to cross the carriageway without having to wait for traffic to stop. It is observed that the underpass is well used and the facility means that pedestrians can cross a busy carriageway without delay or intimidation from high volumes of fast moving traffic. Section 10.6 of this report considers the operation of the underpass in terms of pedestrian comfort levels.
6.2.6 Brentford is the closest town centre to the proposed development and is an approximate 1.5 km walk distance away from the site. A number of local shops and services are located in Brentford and it is considered to be a key destination for future occupiers of the site.
6.2.7 There are a number of green spaces that are accessible on foot from the development sites and these are likely to be key destinations for pedestrians. Examples of green spaces within the vicinity of the sites include Syon Park and Osterley Park.
6.2.8 A summary of local services and facilities is provided within Table 6.1.

Table 6.1: Summary of Local Facilities
\begin{tabular}{|l|c|c|}
\hline Facilities & Location & \begin{tabular}{c} 
Approximate walking distance - \\
metres (m)
\end{tabular} \\
\hline Syon Lane Station & Syon Lane & 100 m \\
\hline Osterley Station & Great West Road & \(1,800 \mathrm{~m}\) \\
\hline Marlborough School & Syon Lane & 800 m \\
\hline Syon Park & London Road & 650 m \\
\hline Nishkam School & Syon Lane & 850 m \\
\hline West Middlesex Hospital & Twickenham Road & \(1,000 \mathrm{~m}\) \\
\hline Sky Campus & Syon Lane & 550 m \\
\hline Brentford Town Centre & High Street & 1500 m \\
\hline
\end{tabular}
6.2.9 A key element of planning at a national and local level is to ensure that development is accessible by public transport, walking and cycling to a range of amenities. This includes food services, healthcare and places of worship for example. These have been presented in the ATZ maps discussed in Section 5.
6.2.10 Observations are that there are many current and proposed opportunities for cyclists in the vicinity of the site.
6.2.11 Syon Lane operates under a 30m.p.h. speed limit and there is no dedicated cyclist infrastructure on this route. However, there is dedicated cycling infrastructure alongside the A4, enabling links between the site and Osterley town centre to the west, and Boston Manor Park and Chiswick to the east.
6.2.12 Brentford neighbourhood centre is considered to be a key destination for cyclists and the main route along London Road has cycle lanes and cycle/bus lanes present, separating cyclists from traffic.
6.2.13 Construction of Cycleway 9 is planned to start in 2019 (refer to Section 7) with the route expected to be completed by 2021; providing a 7 kilometre (km) section of cycleway between Kensington Olympia and Brentford. As of March 2020, work is being undertaken at the Kew Bridge Junction section of the Cycleway. The new cycle superhighway would support journeys by cycle from the development sites towards Central London.
6.2.14 A range of services can be accessed from the site by cyclists, as shown in ATZ Map 1, which depicts the key destinations within a 20-minute cycle of the site.
6.2.15 In summary, the site is accessible for those using non-car modes. A number of key services and amenities are located within walking and cycling distance of the site. Further walking and cycling infrastructure improvements are envisaged in the area, as discussed in Section 7. The proposed improvements will further encourage the uptake of sustainable modes of travel in future.

\subsection*{6.3 Public Transport Accessibility} Public Transport Accessibility Levels (PTAL)
6.3.1 The Public Transport Accessibility Level (PTAL) methodology has been adopted by the GLA and TfL as a means of quantifying and comparing accessibility by public transport for a given site. It takes into account the time taken to access the public transport network, including:
- The walk time to various public transport services;
- The average waiting time for each service; and,
- The reliability of each service.
6.3.2 The methodology is based on a walking speed of \(4.8 \mathrm{~km} / \mathrm{h}\) and considers Underground and rail stations within a 12 -minute walk ( 960 m ) and bus stops within an 8 -minute walk ( 640 m ), with the PTAL assessment being undertaken using the AM peak hour operating patterns of existing public transport services.
6.3.3 An Equivalent Doorstep Frequency (EDF) is calculated for each of the public transport services accessible from the site based on the criteria described above. These individual EDF values are then weighted to provide an accessibility index (AI) value for each service accessible from the Site. The sum of the Al's for each mode is then aggregated to provide a single measure of accessibility.
6.3.4 The total Al value is then compared against the PTAL bands given in Table 6.2. A summary of the assessment is provided in Appendix F.

Table 6.2: PTAL Banding
\begin{tabular}{|c|c|c|}
\hline PTAL Score & Range of Index (AI) & Description \\
\hline 1a & \(0.01-2.50\) & Very Poor \\
\hline 1b & \(2.51-5.00\) & Very Poor \\
\hline 2 & \(5.01-10.00\) & Poor \\
\hline 3 & \(10.01-15.00\) & Moderate \\
\hline 4 & \(15.01-20.00\) & Good \\
\hline 5 & \(20.01-25.00\) & Very Good \\
\hline 6 a & \(25.01-40.00\) & Excellent \\
\hline 6 b & \(>40.01\) & Excellent \\
\hline
\end{tabular}
6.3.5 Based on the TfL PTAL calculator, the site has a PTAL AI of 6.84, which equates to a 'Poor to Moderate' public transport accessibility of \(\mathbf{2 / 3}\). The southern part of the site falls into a PTAL 3 area, due to its proximity to bus service on London Road.
6.3.6 It should be noted that PTAL is only one measure of public transport accessibility. The PTAL methodology does not take account of the interchange opportunities provided by local routes, nor the catchment of the routes. Furthermore research has proven that commuters will travel much further than the prescribed cut off distances to reach public transport. In the case of the site, public transport accessibility is considered good, due to a combination of the frequency of services, and the destinations served by those services. The connectivity available from the site is set out in the following section.

\subsection*{6.4 Public Transport Connectivity}
6.4.1 The site is well-positioned to be accessed by public transport, due to its proximity to Syon Lane station, Osterley Station and a number of frequent bus services.
6.4.2 An assessment of the public transport accessibility has been undertaken using TRACC software. The analysis determines areas that can be reached from the site within a 10, 20, 30 and 60 minute journey time using public transport. A map showing the result of the assessment is shown in Insert 6.2 and in Appendix G.

Insert 6.2: Public Transport Accessibility Map

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6.4.3 The public transport accessibility map demonstrates that the site is accessible from large parts west and central London within a commuting distance. Westminster and Waterloo are located within a 60 minute journey time of the site. This assessment does not account for any emerging rail and bus proposals which are planned in the Golden Mile opportunity area, which would improve accessibility to the site (refer to Section 7).

\subsection*{6.5 Bus}
6.5.1 There are a number of bus stops in close proximity to the site. The key stops and their destinations are presented in Table 6.3.

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Table 6.3: Key Local Bus Services (Frequency per hour - ph)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline Service & Route & \begin{tabular}{l}
Direction \\
(Towards)
\end{tabular} & \begin{tabular}{l}
First \\
Bus
\end{tabular} & Last Bus & \begin{tabular}{l}
AM \\
Peak
\end{tabular} & \begin{tabular}{l}
PM \\
Peak
\end{tabular} & Sat & Sun \\
\hline \multirow[t]{2}{*}{\begin{tabular}{l}
H91 \\
(Great \\
West \\
Road)
\end{tabular}} & \multirow[t]{2}{*}{\begin{tabular}{l}
Hounslow West Station - Osterley \\
Station - Wood Lane - Gillette Corner \\
- West Cross Centre - Boston Manor \\
Road - Gunnersbury Station - \\
Hammersmith Bus Station
\end{tabular}} & Hounslow West Station & 05.10 & 23.50 & 6ph & 6ph & 5ph & 4ph \\
\hline & & Hammersmith Bus Station & 05.00 & 23:40 & 6ph & 6ph & 5ph & 4ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
H28 \\
(Syon \\
Lane)
\end{tabular}} & \multirow[t]{2}{*}{\begin{tabular}{l}
Bulls Bridge Tesco - Beaufort Gardens \\
- Bath Road - Hounslow High Street - \\
Hounslow East Station - Thornbury \\
Avenue/Great West Road - West \\
Middlesex Hospital - Syon Lane \\
Station - Tesco Osterley
\end{tabular}} & Bulls Bridge Tesco & 05:50 & 23:30 & 3ph & 3ph & 3ph & 2ph \\
\hline & & Tesco Osterley & 05:50 & 23:30 & 3 ph & 3ph & 3 ph & 2ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
235 \\
(London Road)
\end{tabular}} & \multirow[t]{2}{*}{\begin{tabular}{l}
Three Fishes - Sunbury Station - \\
Feltham Tesco - Hounslow High Street \\
- Thornbury Road - Isleworth Station - \\
Wood Lane - Syon Lane -Brentford \\
County Court - Great West Quarter
\end{tabular}} & Three Fishes & 05.05 & 00.00 & 7ph & 7ph & 6ph & 5ph \\
\hline & & Great West Quarter & 05:05 & 00:05 & 7ph & 7ph & 6ph & 5ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
237 \\
(London \\
Road)
\end{tabular}} & \multirow[t]{2}{*}{Frampton Road - Hounslow High Street - Isleworth Station - Syon Lane - Brentford County Court - Kew Bridge Station - Shepherd's Bush Green White City Bus Station} & Frampton Road & 04.55 & 00.25 & 7ph & 7ph & 7ph & 5ph \\
\hline & & White City Bus Station & 05.05 & 23:55 & 7ph & 7ph & 7ph & 5ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
267 \\
(London Road)
\end{tabular}} & \multirow[t]{2}{*}{\begin{tabular}{l}
Hammersmith Bus Station - \\
Gunnersbury Station - Kew Bridge \\
Station - Brentford County Court - \\
Syon Lane - West Middlesex Hospital \\
- Fullwell Bus Station
\end{tabular}} & Hammersmith Bus Station & 05:01 & 23:41 & 5ph & 5ph & 5ph & 4ph \\
\hline & & Fullwell Bus Station & 05:49 & 00:31 & 5ph & 5ph & 5ph & 4ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
E8 \\
(London \\
Road)
\end{tabular}} & \multirow[b]{2}{*}{The Bell - Isleworth Station - Syon Lane - Brentford Station - Boston Manor Station - Ealing Broadway Station} & The Bell & 04:00 & 00:50 & 7ph & 7ph & 7ph & 7ph \\
\hline & & \begin{tabular}{l}
Ealing \\
Broadway Station
\end{tabular} & 04:50 & 01:15 & 7ph & 7ph & 7ph & 6ph \\
\hline \multirow{2}{*}{\begin{tabular}{l}
N9 \\
(London Road)
\end{tabular}} & \multirow[t]{2}{*}{\begin{tabular}{l}
Heathrow T5 - Hounslow West Station \\
- Wood Lane - Syon Lane - Brentford \\
County Court - Gunnersbury Station - \\
Hammersmith Station - High Street \\
Kensington - Hyde Park Corner - \\
Charing Cross Station - Aldwych
\end{tabular}} & Heathrow T5 & 23:55 & 04:55 & 3ph & 3ph & 3ph & 3ph \\
\hline & & Aldwych & 23:30 & 05:20 & 3 ph & 3ph & 3ph & 3ph \\
\hline
\end{tabular}

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6.5.2 There are seven regular bus services within walking distance of the site. The H 28 bus route runs along Syon Lane and stops and turns around at Tesco Osterley. The H91 can be accessed from the A4 at bus stops K/C respectively, while the 235, 237, 267, E8 and N9 bus routes can be accessed from London Road, at bus stops X/W. All routes provide at least three services per hour, while the most frequent services, routes 235,237 and E8, provide seven services per hour.
6.5.3 A map showing the buses and their routes accessible from the site is provided in Insert 6.3 and Appendix G.

Insert 6.3: Bus Catchment Map


\subsection*{6.6 Rail}
6.6.1 Syon Lane Station provides National Rail services direct to London Waterloo, via Brentford, Putney, Clapham Junction and Vauxhall. To the west, the service connects with Windsor and Eton.
6.6.2 Syon Lane railway station is on the Brentford loop of the South Western Railway network. At Syon Lane Station, there is a frequent service connecting the site with Central London. There are approximately seven trains per hour to London Waterloo and Mortlake, respectively. There are three trains per hour towards Weybridge.
6.6.3 Clapham Junction is a major railway station on the South Western Railway network and is accessible via a train journey of approximately 20 minutes from Syon Lane. Clapham Junction is served by London Overground, Southern and Gatwick Express services.

\section*{Royal \\ HaskoningDHV}
6.6.4 A summary of services from Syon Lane Station can be seen in Table 6.4.

Table 6.4: Syon Lane Station Rail Links
\begin{tabular}{|l|c|c|c|c|}
\hline Destination & First Train & Last Train & Frequency & \begin{tabular}{c} 
Approximate \\
Journey Time \\
(mins)
\end{tabular} \\
\hline London Waterloo & \(05: 36\) & \(23: 21\) & 7 ph & 35 m \\
\hline Weybridge & \(06: 55\) & \(23: 55\) & 3 ph & 44 m \\
\hline Mortlake & \(05: 36\) & \(23: 21\) & 7 ph & 33 m \\
\hline
\end{tabular}
6.6.5 Osterley Station provides access to the Piccadilly Line service and is within 2 km of the site. Bus service H91 provides a connection from the site to the station.
6.6.6 At Osterley Station, the Piccadilly line has a peak frequency of 12 trains per hour in each direction, with trains timetabled approximately every five minutes.
6.6.7 The site benefits from close proximity to a total of 10 peak hour National Rail services from Syon Lane station, with up to 24 peak hour London Underground services available from Osterley Station.
6.6.8 In conclusion, whilst the site has a PTAL rating of \(2 / 3\), the site is well served by cycle routes, and is close to a local rail station and also bus routes that link the site to a number of key destinations. As previously stated, PTAL is only one measure of public transport accessibility. The PTAL methodology does not take account of the interchange opportunities provided by local routes, nor the catchment of the routes. Furthermore research has proven that commuters will travel much further than the prescribed cut off distances to reach public transport. In the case of the site, public transport accessibility is considered good, due to a combination of the frequency of services, and the key destinations served by those services.

\section*{7 Proposed Public Transport Improvements}

\subsection*{7.1 Preface}
7.1.1 A number of proposals have been put forward by the GLA and LBH to enhance the non-car accessibility of the Opportunity Area. These are referred to in the Mayor's adopted Transport Strategy (March 2018) and/or the Borough's adopted Local Implementation Plan (February 2019).
7.1.2 The proposed measures include improved rail connections, bus routes and cycleways. As a result of the proposals, the PTAL for the site and its surrounds is likely to increase, and the measures being considered as a means to improve the connectivity of the area by non-car modes is summarised below.

\subsection*{7.2 Proposed Walking and Cycling Improvements}

\section*{Syon Lane to Boston Manor Road Cycle Track}
7.2.1 Amendments to the A4 Great West Road cycle track and footway were proposed by TfL and LBH in 2017 and would run between Syon Lane and Boston Manor Road. On review of collision data (refer to Section 5) it was found that there were a number of collisions and near misses involving cyclists and motor vehicles along this stretch of the A4, especially where shared-use areas of segregated cycle track passed through junction. The changes are intended to improve safety for all road users and make cycling a safer, and more appealing, travel option for employees and local residents.
7.2.2 The cycle track changes were informed by the Mayor's Transport Strategy and the Healthy Streets Approach, which aim to encourage walking, cycling and using public transport to make London greener, healthier and more pleasant.
7.2.3 In the immediate vicinity of the site, the following is proposed:
- Syon Lane / Shield Drive Junction
- Resurface existing raised table
- Build out the existing footway
- Convert the cycle paths to a shared-use footway
- Proposed traffic island reconstruction.
7.2.4 Details of the proposed changes to pedestrian and cycle infrastructure, including the Boston Manor pedestrian and cycle connection, and Cycleway 9 (see below) is presented in Appendix \(\mathbf{H}\).

\section*{Cycleway 9}
7.2.5 It is intended that Cycleway 9 would provide improvements for all road users, offering a clearer and safer route for people to cycle in west London, making it easier to cross busy roads and removing through traffic on some residential streets. Cycleway 9 would form part of the emerging network of Cycle Superhighways, in line with the Mayor's Transport Strategy and the Healthy Streets Approach.
7.2.6 Cycleway 9 would route between Kensington Olympia and Brentford, connecting through town centres in Hammersmith and Chiswick. Plans were consulted on in autumn 2017, with two new parts (Kew Bridge to Wellesley Road and Duke Road to Chiswick High Road), were consulted on in winter 2019. The route to Brentford has now been approved by Hounslow Council.
7.2.7 Phase 2 of the route, from Brentford to Hounslow, will be subject to a future public consultation and would extend the route along London Road, to the south of the site.
7.2.8 Complementary work includes - As part of the Hounslow Priority Cycle Network programme, the route of the Cycleway 9 will be analysed with the aim of providing connecting routes north into Brentford and Chiswick residential areas and on to Ealing. The project will also ensure that cyclists can join Cycleway 9 safely and quickly.
7.2.9 The LBH LIP outlines a number of Priority Cycle Networks which would improve cycle accessibility across the borough. Route 10, Syon Lane to Ealing, is one of the proposed routes and would connect the future CS9 to Ealing via Osterley on primarily off-road or Quietway level provision, running parallel to Syon Lane. The route would run through the western extent of the Great West Corridor and continue northward towards Ealing.
7.2.10 A key challenge exists in adapting and/or rebuilding the Quaker Lane footbridge over the Piccadilly Line to make it suitable for cyclists.

\section*{Boston Manor Boardwalk}
7.2.11 The Boston Manor Link would use a boardwalk to provide a direct pedestrian and cycle link to the Great West Corridor from Boston Manor station (Piccadilly Line). Within the GWC Strategic Transport Study, it is noted that while this proposed development is still undergoing feasibility studies, it is considered medium/highly deliverable.

\subsection*{7.3 Proposed Bus Improvements}
7.3.1 Bus routes are not static and can be altered to suit new demand. By working with TfL and using developer contributions, north-south bus routes can be improved.
7.3.2 Increase in capacity of the Piccadilly and District Lines in the next 3 years creates the opportunity to expand bus links and active travel infrastructure to stations.
7.3.3 The West London section of the Elizabeth Line, which is due mid-2022, would offer opportunities for new rail connections from the borough; from Heathrow and Reading in the west, to Central London, Abbey Wood and Shenfield in the East.
7.3.4 An additional E1 service is proposed to serve the site at Tesco Osterley. This service would be an extension of the existing service which currently runs between Greenford and Ealing. This service provide an additional 6 buses an hour. A map depicting the re-routing of this service can be seen in Insert 7.1 and Appendix I.

Insert 7.7.1: Proposed E1 Bus Route

7.3.5 TfL proposed to re-route H28 bus service, making it a more practical school service, servicing Nishkam School and the proposed Bolder Academy more directly. A map of planned route changes can be seen in Insert 7.2 and Appendix I.

Insert 7.2: Proposed H28 Bus Route

7.3.6 Proposals for a Bus Rapid Transit (BRT) scheme have been outlined within the GWC Strategic Transport Study. This scheme would use standard London buses, but would operate a service with high reliability, fast journey time, operating within dedicated road space not shared with private vehicles. This would also allow the extension of the existing 195 and 235 bus services.
7.3.7 BRT option 1 assumes provision of a dedicated two-way bus lane in the centre of Great West Road, between Syon Lane and Gunnersbury Avenue. Option 2 covers the same study area, but bus lanes would be provided in the outside lanes of the Great West Road.

\subsection*{7.4 Proposed Rail Improvements}

\section*{Southall Rail Link (Golden Mile station at Transport Avenue)}
7.4.1 LBH is supporting plans to create a new rail line that would connect a new station in Brentford's 'Golden Mile' on the A4 Great West Road, to Southall Station, in the London Borough of Ealing.
7.4.2 Under the proposals, a new station would be built on the 'Golden Mile's' Transport Avenue (TW8) in Brentford, which would allow passenger services to be restored from Southall Station on an existing line currently used to transport freight. This would:
- Provide a strategic interchange to Transport for London's (TfL) Elizabeth Line. Under the proposals, the borough would have a direct rail link to the Elizabeth Line at Southall Station where onward destinations include Heathrow Airport, Central London, Reading and Shenfield.
- Provide a strategic interchange to the Great Western Mainline. The borough would have a direct rail link to Southall Station which is served by Great Western Railway and provides services to London Paddington, Reading and Swindon and the southwest.
7.4.3 The Southall Rail Link is currently at the options assessment stage. Network Rail is due to report on a preferred option to take forward in autumn 2020.
7.4.4 The council is investigating a number of funding streams to support the proposal including public sector borrowing, the introduction of a workplace car parking levy and developer contributions.

\section*{Southern Rail Access to Heathrow Airport}
7.4.5 Part of the DfT's long-term plan to develop the UK's rail infrastructure is the delivery of a new rail link that connects the south and south-west more directly to Heathrow Airport.
7.4.6 The LBH support proposals for a new rail line to Heathrow Airport that includes a new station serving Bedfont, connecting to Feltham and London Waterloo.
7.4.7 Direct journey times from London Waterloo to Heathrow T5 would take between 43 and 56 minutes, and journeys from Bedfont to Heathrow T5 would take approximately 9 minutes.

\section*{West London Orbital (WLO) Railway - (Overground line expansion)}
7.4.8 Proposal 88 of the Mayor's Transport Strategy states that TfL, the West London Alliance Boroughs and Network Rail, will work towards the delivery of a new London Overground 'West London Orbital' line, connecting Hounslow with Cricklewood and Hendon via Old Oak, Neasden and Brent Cross.
7.4.9 A new Overground service creating a route linking Crossrail and HS2. The route would serve Syon Lane and Brentford Stations. LBH also support a proposal to create a rail link that would see passenger services restored to the Dudding Hill Line and the Kew-Acton Link (currently used to transport occasional rail freight/chartered trains), and a new station built at Lionel Road (TW8) in Brentford.
7.4.10 Proposed WLO stations include Hounslow, Isleworth, Syon Lane and Brentford, with potential stations extending to Lionel Road and Kew Bridge. Operations are forecasted to start in 2026 (phase 1) and 2029 (phase 2).
7.4.11 The WLO scheme will result in improved Public Transport Accessibility Levels at the site due to the increased frequency of services. It will also provide further direct and connecting journey opportunities. Public Transport Accessibility will increase around the new station at Lionel Road (currently rated by TfL as 'very low'), leading to an increased level of regeneration and accommodating the predicted population and employment growth in the area.
7.4.12 The provision of new public transport and connectivity could deliver benefits to the wider transport system. The WLO could encourage mode shift to active, efficient and sustainable modes which would help to reduce congestion. The scheme would provide crowding relief on some of the busiest rail lines in the sub-region, such as the Piccadilly line.

\section*{Piccadilly Line}
7.4.13 Improvements to the Piccadilly Line's signalling systems, and new stock, would allow reduced journey times, increases in capacity and a higher service frequency.
7.4.14 The Elizabeth Line will increase London's rail network capacity by 10 per cent, cutting journey times substantially and relieving congestion on other rail and Tube lines, particularly the Piccadilly line.
7.4.15 Four-line modernisation (surface tube lines) - Up to 32 trains per hour on Circle, District, Hammersmith and city and Metropolitan lines. The TfL Business Plan 2019-24 states this will increase service by \(33 \%\) and will be in service by 2024.

\subsection*{7.5 Improved Public Transport Accessibility}
7.5.1 As a result of the emerging transport connectivity in the local area, the PTAL rating of the site will increase.
7.5.2 The E1 bus service, which would stop adjacent to the site, would provide 6 additional services per hour. The WLO rail link would provide between 4-8 services per hour, subject to further consultation.
7.5.3 These changes would increase the PTAL score for the site and this is conformed in the anticipated future PTAL levels summarised in the Great West Corridor Strategic Transport Study, Full Report (May 2019) - this is a joint LBH and TfL document. In discussing both bus and rail public transport capacity improvement options, the report says that "both packages are effective in reducing bus and rail crowding levels and in improving public transport connectivity and accessibility levels (PTAL) in the GWC area. The level of increase in PTAL achieved with each package is very similar in the central and western sectors - levels increase from 2 to 3 in the 2015 base year to 3 to 4 with both intervention packages."

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7.5.4 The report suggests the following changes to PTAL levels in the area would take place, based on bus and rail improvement packages.

Insert 7.2: PTAL Level Upgrade Plan
Figure 36: PTAL Site Locations


Table 13: Impact of intervention packages on PTAL at selected site locations
\begin{tabular}{|c|c|c|c|c|}
\hline \begin{tabular}{l}
Site \\
ID
\end{tabular} & Site Name & 2015 Base & Package 1 (Bus) & Package 2 (Rail) \\
\hline \multicolumn{5}{|l|}{Eastern sector} \\
\hline 10 & Lionel Road station & 3 & 3 & 5 \\
\hline 12 & Power Road & 4 & 4 & 5 \\
\hline 14 & GW Rd/Lionel Rd South & 2 & 3 & 5 \\
\hline \multicolumn{5}{|l|}{Central sector} \\
\hline 4 & GSK & 2 & 4 & 4 \\
\hline 7 & Riverbank Way & 3 & 4 & 4 \\
\hline 8 & University of West London & 3 & 4 & 4 \\
\hline 9 & Junction of Windmill Rd and Reynard Way & 3 & 4 & 4 \\
\hline \multicolumn{5}{|l|}{Western sector} \\
\hline 1 & Tesco & 2 & 3 & 3 \\
\hline 2 & Sky Campus & 1b & 3 & 3 \\
\hline 3 & Site 3 - Syon Lane & 3 & 4 & 4 \\
\hline 5 & West Cross & 2 & 4 & 4 \\
\hline 6 & Safestore site & 2 & 5 & 5 \\
\hline 11 & Syon Lane/GWR & 2 & 4 & 4 \\
\hline 13 & Harlequin Ave & 1b & 3 & 3 \\
\hline
\end{tabular}
7.5.5 The table and plan infer a future PTAL level of 4 for the Homebase site. However, we are aware that bus improvements are to be implemented ( E 1 and H 28 ) and the rail service improvement also has potential to come forward. The combined bus and rail improvements could further inflate PTAL rates for the site above those referred to above.

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7.5.6 Therefore, this should be considered a conservative estimate of prospective PTAL improvement, as other emerging public transport improvements which do not have details of hourly service figures have not been included in this calculation.
7.5.7 The proposed measures will provide more frequent public transport services in the vicinity of the site, serving a wider series of destinations. This step change in provision will encourage future residents and visitors to the site to travel by public transport, thus reducing the need to travel by private car. The forecast increase in PTAL score reflects this change.

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\section*{8 Existing Travel Patterns}

\subsection*{8.1 Pedestrian Demand}
8.1.1 Pedestrian surveys were undertaken in the vicinity of the site on Tuesday \(9^{\text {th }}\) July 2019 between the hours of 07:00-10:00 and 15:00-19:00. The results of the surveys have been summarised and assessed in order to gain an appreciation of the existing peak hour pedestrian footfall. The survey methodology and survey outputs are provided in Appendix J.

\section*{Syon Lane (Western Frontage)}
8.1.2 In and around the weekday morning peak hour, the surveys identify platoons of pedestrians crossing Syon Lane, in the vicinity of Syon Lane station. It is understood that the majority of these platoons are workers alighting trains at the station walking towards the Sky Campus. Peak demand takes place from 08:45 to 09:00, when 346 pedestrians were observed to cross Syon Lane from the direction of the station and walk northbound, on the eastern side of the Syon Lane carriageway, heading towards the Homebase site access and the A4. Insert 8.1 depicts the extent of pedestrian footfall during the AM peak across the pedestrian crossing adjacent to Syon Lane Station.

Insert 8.1: Signalised Crossing Pedestrian Demand, South of the Site Access - AM Peak

8.1.3 In the opposite direction, peak pedestrian movements occur in the early evening from 17:45 to 18:00, at which time 139 pedestrians cross the carriageway routing towards Syon Lane station.
8.1.4 Comparatively few pedestrians cross the carriageway at the existing staggered signal control crossing in the vicinity of Northumberland Avenue. From 07:00 to 10:00 (a 3-hour period) on a weekday morning, 35 pedestrians crossed the Syon Lane carriageway in this location. From 16:00 to 19:00, 137 pedestrians crossed the carriageway in this location.

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\section*{Gillette Corner}
8.1.5 The underpass, beneath the A4, is observed to be well used. On a weekday morning, from 08:45 to 09:00 (15 minute period), 206 pedestrians were observed to exit the underpass on the northern side of the A4. In the same time period, nine pedestrians routed across the A4 via the surface crossing, located on the western side of the A4/ Syon Lane junction.

\section*{Great West Road (Northern Frontage)}
8.1.6 The Toucan crossing situated at the north-western corner, connecting the site with Harlequin Avenue has been observed to accommodate 173 northbound pedestrian movements and one southbound movement during the 08:45-09:00 peak period of demand.
8.1.7 In the afternoon, the 15-minute periods of 17:30-17:45 and 17:45-18:00 are observed to experience the largest flows of 109 and 107 southbound, and 10 and seven northbound movements, respectively.

\subsection*{8.2 Homebase Development Traffic Attraction}
8.2.1 In order to obtain an understanding of the traffic volumes and movement profile in the vicinity of the site, traffic surveys have been undertaken at the site from Wednesday 3rd July 2019 to Tuesday \(9^{\text {th }}\) July 2019. The survey methodology report and survey outputs are provided in Appendix K. Table 8.1 provides a summary of total traffic movements observed to and from the Homebase car park.
8.2.2 Over the course of the week-long survey, it was established that between \(1 \%\) and \(2 \%\) of vehicle movements could be described as a Heavy Goods Vehicle (HGV) movement.
8.2.3 In terms of parking demand, the following maximum parking accumulations have been identified from the surveys. Parking survey outputs are provided in full at Appendix K.
- Thursday \(4^{\text {th }}\) July 2019 - 82 cars at 12:15
- Saturday \(6^{\text {th }}\) July -63 cars at 09:45
- Tuesday \(9^{\text {th }}\) July -97 cars at \(14: 15\)
8.2.4 As a result of the site's redevelopment, existing Homebase trips would be removed from the local highway network.

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Table 8.1: Homebase Traffic Attraction
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{Time Period} & \multicolumn{2}{|l|}{Wed 3rd July 2019} & \multicolumn{2}{|l|}{Thurs 4th July 2019} & \multicolumn{2}{|l|}{Fri 5th July 2019} & \multicolumn{2}{|l|}{Sat 6th July 2019} & \multicolumn{2}{|l|}{Sun 7th July 2019} & \multicolumn{2}{|l|}{Mon 8th July 2019} & \multicolumn{2}{|l|}{Tues 9th July 2019} \\
\hline & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Arrivals & Departs & Arrivals \\
\hline 00:00-01:00 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 1 & 1 \\
\hline 01:00-02:00 & 0 & 0 & 2 & 2 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 0 & 0 \\
\hline 02:00-03:00 & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 \\
\hline 03:00-04:00 & 0 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 04:00-05:00 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 0 & 1 & 1 & 0 & 0 & 0 & 0 \\
\hline 05:00-06:00 & 0 & 0 & 0 & 0 & 0 & 0 & 2 & 0 & 1 & 1 & 1 & 0 & 2 & 1 \\
\hline 06:00-07:00 & 3 & 1 & 2 & 3 & 0 & 1 & 2 & 3 & 0 & 0 & 5 & 2 & 6 & 5 \\
\hline 07:00-08:00 & 14 & 9 & 13 & 6 & 6 & 8 & 6 & 2 & 1 & 1 & 14 & 12 & 21 & 14 \\
\hline 07:45-08:45* & 30 & 17 & 23 & 13 & 28 & 19 & 44 & 23 & 1 & 2 & 24 & 18 & 32 & 22 \\
\hline 08:00-09:00 & 27 & 19 & 23 & 15 & 29 & 22 & 54 & 31 & 3 & 1 & 20 & 14 & 28 & 25 \\
\hline 09:00-10:00 & 52 & 40 & 44 & 35 & 47 & 33 & 77 & 41 & 14 & 6 & 72 & 52 & 58 & 36 \\
\hline 10:00-11:00 & 69 & 57 & 75 & 60 & 80 & 64 & 75 & 84 & 67 & 57 & 65 & 66 & 70 & 62 \\
\hline 11:00-12:00 & 78 & 70 & 77 & 78 & 80 & 82 & 104 & 102 & 90 & 82 & 67 & 61 & 83 & 80 \\
\hline 12:00-13:00 & 74 & 85 & 89 & 89 & 86 & 87 & 90 & 110 & 115 & 100 & 81 & 88 & 81 & 86 \\
\hline 13:00-14:00 & 79 & 81 & 79 & 85 & 67 & 77 & 92 & 99 & 111 & 104 & 85 & 67 & 76 & 74 \\
\hline 14:00-15:00 & 73 & 75 & 74 & 81 & 76 & 67 & 101 & 98 & 134 & 126 & 80 & 83 & 78 & 72 \\
\hline 15:00-16:00 & 69 & 73 & 60 & 65 & 72 & 75 & 90 & 94 & 123 & 142 & 76 & 78 & 62 & 64 \\
\hline 16:00-17:00 & 64 & 66 & 52 & 55 & 55 & 54 & 82 & 89 & 32 & 68 & 61 & 72 & 69 & 81 \\
\hline 17:00-18:00 & 60 & 56 & 67 & 51 & 56 & 64 & 64 & 73 & 8 & 12 & 67 & 69 & 53 & 57 \\
\hline 18:00-19:00 & 54 & 70 & 54 & 65 & 63 & 71 & 61 & 61 & 6 & 7 & 67 & 72 & 49 & 59 \\
\hline 19:00-20:00 & 45 & 55 & 40 & 57 & 39 & 46 & 31 & 39 & 3 & 3 & 48 & 69 & 43 & 54 \\
\hline 20:00-21:00 & 13 & 17 & 15 & 17 & 16 & 22 & 10 & 12 & 7 & 7 & 11 & 15 & 8 & 15 \\
\hline 21:00-22:00 & 2 & 2 & 6 & 7 & 8 & 7 & 3 & 1 & 2 & 3 & 4 & 4 & 6 & 5 \\
\hline 22:00-23:00 & 0 & 0 & 0 & 0 & 4 & 6 & 2 & 3 & 1 & 1 & 2 & 1 & 5 & 5 \\
\hline 23:00-24:00 & 5 & 4 & 1 & 1 & 4 & 4 & 0 & 0 & 1 & 1 & 0 & 1 & 1 & 2 \\
\hline 23:00-07:00 & 9 & 6 & 7 & 9 & 7 & 8 & 5 & 4 & 4 & 4 & 7 & 4 & 11 & 10 \\
\hline 07:00-19:00 & 713 & 701 & 707 & 685 & 717 & 704 & 896 & 884 & 704 & 706 & 755 & 734 & 728 & 710 \\
\hline 07:00-23:00 & 773 & 775 & 768 & 766 & 784 & 785 & 942 & 939 & 717 & 720 & 820 & 823 & 790 & 789 \\
\hline 06:00-24:00 & 781 & 780 & 771 & 770 & 788 & 790 & 944 & 942 & 718 & 721 & 825 & 826 & 797 & 796 \\
\hline 24-Hour & 782 & 781 & 775 & 775 & 791 & 793 & 947 & 943 & 721 & 724 & 827 & 827 & 801 & 799 \\
\hline
\end{tabular}

\subsection*{8.3 Tesco Development Traffic Attraction}
8.3.1 In addition to carrying out surveys at the existing Homebase store, surveys have been undertaken at the existing Tesco Osterley site. These surveys provide guidance on the future travel demand to the new Tesco store proposed for the Homebase site. Table 8.2 provides a summary of total traffic movements observed to and from the Tesco customer car park. This data set, therefore, excludes buses that access the site but do not access the Tesco car park and excludes traffic that visits the Tesco petrol filling station without visiting the Tesco store.
8.3.2 While Homebase has a relatively low traffic attraction in and around the traditional weekday morning peak period of travel demand, traffic attraction to the Tesco store is at a higher level for the majority of the day.
8.3.3 As part development proposals, Tesco commissioned parking accumulation surveys in

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November/December of 2018. RHDHV, on behalf of St Edward Limited, commissioned further parking surveys in June/July. A comparison of the outputs can be seen below. Existing parking demand for the Tesco Osterley car park is summarised below. Parking survey outputs are provided in full at Appendix K.
- Saturday 29 \({ }^{\text {th }}\) June 2019 - 420 cars at 10:30
- Thursday \(4^{\text {th }}\) July 2019 - 414 cars at 11:30
- Saturday \(6^{\text {th }}\) July 2019 - 415 cars at 14:30
- Tuesday \(9^{\text {th }}\) July 2019 - 499 cars at 11:15
8.3.4 For comparison purposes, surveyed parking accumulations counted at Tesco Osterley in November 2018 are were as follows:
- Tuesday \(27^{\text {th }}\) November 2018 - 469 cars at 11:30
- Saturday \(1^{\text {st }}\) December 2018-495 cars at 15:00

Table 8.2: Tesco Osterley Traffic Attraction
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{Time Period} & \multicolumn{2}{|l|}{Wed 3rd July 2019} & \multicolumn{2}{|l|}{Thurs 4th July 2019} & \multicolumn{2}{|l|}{Fri 5th July 2019} & \multicolumn{2}{|l|}{Sat 6th July 2019} & \multicolumn{2}{|l|}{Sun 7th July 2019} & \multicolumn{2}{|l|}{Mon 8th July 2019} & \multicolumn{2}{|l|}{Tues 9th July 2019} \\
\hline & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Arrivals & Departs & Arrivals \\
\hline 00:00-01:00 & 0 & 0 & 1 & 0 & 2 & 2 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 01:00-02:00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline 02:00-03:00 & 4 & 0 & 8 & 5 & 4 & 1 & 2 & 1 & 0 & 0 & 4 & 0 & 4 & 0 \\
\hline 03:00-04:00 & 6 & 4 & 0 & 0 & 2 & 2 & 0 & 0 & 3 & 3 & 4 & 1 & 1 & 0 \\
\hline 04:00-05:00 & 6 & 7 & 6 & 6 & 4 & 1 & 3 & 3 & 4 & 2 & 5 & 8 & 6 & 5 \\
\hline 05:00-06:00 & 10 & 4 & 13 & 5 & 10 & 7 & 15 & 4 & 3 & 0 & 11 & 6 & 9 & 3 \\
\hline 06:00-07:00 & 32 & 22 & 37 & 15 & 40 & 21 & 39 & 10 & 10 & 6 & 33 & 17 & 36 & 13 \\
\hline 07:00-08:00 & 189 & 116 & 152 & 96 & 134 & 96 & 160 & 92 & 17 & 9 & 172 & 123 & 148 & 95 \\
\hline 07:45-08:45* & 252 & 198 & 230 & 165 & 252 & 176 & 244 & 172 & 15 & 13 & 236 & 170 & 252 & 179 \\
\hline 08:00-09:00 & 253 & 209 & 249 & 177 & 287 & 197 & 269 & 179 & 15 & 15 & 277 & 175 & 282 & 183 \\
\hline 09:00-10:00 & 431 & 223 & 387 & 227 & 439 & 284 & 378 & 312 & 206 & 22 & 426 & 237 & 407 & 212 \\
\hline 10:00-11:00 & 346 & 310 & 383 & 330 & 380 & 355 & 489 & 393 & 517 & 330 & 383 & 295 & 368 & 280 \\
\hline 11:00-12:00 & 359 & 328 & 392 & 368 & 437 & 426 & 522 & 507 & 555 & 535 & 375 & 402 & 354 & 370 \\
\hline 12:00-13:00 & 414 & 476 & 407 & 476 & 430 & 452 & 503 & 496 & 587 & 588 & 444 & 501 & 430 & 484 \\
\hline 13:00-14:00 & 404 & 426 & 386 & 385 & 445 & 442 & 481 & 481 & 579 & 579 & 416 & 466 & 403 & 445 \\
\hline 14:00-15:00 & 398 & 360 & 376 & 391 & 402 & 425 & 489 & 484 & 533 & 563 & 436 & 394 & 413 & 389 \\
\hline 15:00-16:00 & 360 & 433 & 394 & 396 & 357 & 382 & 417 & 472 & 468 & 600 & 375 & 448 & 376 & 412 \\
\hline 16:00-17:00 & 358 & 407 & 366 & 428 & 377 & 418 & 413 & 420 & 70 & 305 & 399 & 421 & 349 & 435 \\
\hline 17:00-18:00 & 380 & 383 & 338 & 357 & 429 & 398 & 382 & 425 & 10 & 24 & 383 & 418 & 381 & 386 \\
\hline 18:00-19:00 & 351 & 428 & 357 & 365 & 385 & 412 & 346 & 400 & 0 & 2 & 422 & 406 & 345 & 410 \\
\hline 19:00-20:00 & 343 & 353 & 324 & 353 & 296 & 349 & 319 & 358 & 1 & 1 & 348 & 421 & 328 & 344 \\
\hline 20:00-21:00 & 271 & 326 & 302 & 331 & 313 & 350 & 247 & 292 & 2 & 1 & 236 & 316 & 222 & 281 \\
\hline 21:00-22:00 & 160 & 230 & 174 & 278 & 172 & 260 & 134 & 243 & 19 & 13 & 147 & 190 & 165 & 228 \\
\hline 22:00-23:00 & 17 & 74 & 23 & 79 & 16 & 78 & 15 & 52 & 7 & 5 & 17 & 69 & 15 & 57 \\
\hline 23:00-24:00 & 0 & 0 & 0 & 0 & 2 & 1 & 1 & 3 & 3 & 2 & 0 & 0 & 1 & 0 \\
\hline 23:00-07:00 & 58 & 37 & 65 & 31 & 64 & 35 & 60 & 23 & 23 & 13 & 57 & 32 & 57 & 21 \\
\hline 07:00-19:00 & 4243 & 4099 & 4187 & 3996 & 4502 & 4287 & 4849 & 4661 & 3557 & 3572 & 4508 & 4286 & 4256 & 4101 \\
\hline 07:00-23:00 & 5034 & 5082 & 5010 & 5037 & 5299 & 5324 & 5564 & 5606 & 3586 & 3592 & 5256 & 5282 & 4986 & 5011 \\
\hline 06:00-24:00 & 5066 & 5104 & 5047 & 5052 & 5341 & 5346 & 5604 & 5619 & 3599 & 3600 & 5289 & 5299 & 5023 & 5024 \\
\hline 24-Hour & 5092 & 5119 & 5075 & 5068 & 5363 & 5359 & 5624 & 5629 & 3609 & 3605 & 5313 & 5314 & 5043 & 5032 \\
\hline
\end{tabular}

\footnotetext{
*AM Weekday Network Peak
}

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8.3.5
8.3.5 Table 8.2 includes traffic that would visit the Tesco car park before or after visiting the Tesco PFS. However, surveys of the PFS access, undertaken on Saturday \(6^{\text {th }}\) July and Tuesday \(9^{\text {th }}\) July 2019, identify that the PFS attracts independent traffic movements, not visiting the Tesco store. The development scheme would not re-provide a PFS on the Homebase site and therefore it can be expected that a proportion of these existing 'PFS only' trips would be removed from the local highway network as a result of the two linked development projects.
8.3.6 PFS only trips are summarised in Table 8.3.

Table 8.3: Tesco Osterley - PFS Only Traffic Attraction
\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{Dayl Time Period} & Arrivals & Departures & Total \\
\hline \multirow{7}{*}{\[
\begin{aligned}
& \text { त } \\
& \frac{0}{0} \\
& \stackrel{0}{3} \\
& \vdots
\end{aligned}
\]} & 07:00-08:00 & 86 & 79 & 165 \\
\hline & 07:45-08:45 & 79 & 71 & 150 \\
\hline & 08:00-09:00 & 79 & 80 & 159 \\
\hline & 09:00-10:00 & 86 & 77 & 163 \\
\hline & 16:00-17:00 & 97 & 85 & 182 \\
\hline & 17:00-18:00 & 91 & 92 & 183 \\
\hline & 18:00-19:00 & 91 & 85 & 176 \\
\hline \multirow{6}{*}{} & 10:00-11:00 & 104 & 112 & 216 \\
\hline & 11:00-12:00 & 116 & 102 & 218 \\
\hline & 12:00-13:00 & 87 & 86 & 173 \\
\hline & 13:00-14:00 & 111 & 103 & 214 \\
\hline & 14:00-15:00 & 104 & 102 & 206 \\
\hline & 15:00-16:00 & 116 & 96 & 212 \\
\hline
\end{tabular}
8.3.7 In addition to traffic surveys, a multi-modal survey has been undertaken for the existing Tesco, Osterley store. The results are presented in full in Appendix U, and Table 8.4 provides a summary of the results.

Table 8.4: Tesco Osterley - Multi-modal Trip Attraction (Tesco Foodstore)
\begin{tabular}{|l|c|c|c|c|c|c|}
\hline \multirow{2}{*}{ Mode of Travel } & \multicolumn{3}{|c|}{ Saturday \(\mathbf{6}^{\text {th }}\) July \(\mathbf{2 0 2 0}\)} & \multicolumn{3}{c|}{ Tuesday 9 \({ }^{\text {th }}\) July 2020} \\
\cline { 2 - 8 } & Arrivals & Departures & Modal Split & Arrivals & Departures & Modal Split \\
\hline Pedestrian & 936 & 821 & \(10.9 \%\) & 1428 & 1218 & \(18.8 \%\) \\
\hline Cycle & 46 & 55 & \(0.6 \%\) & 44 & 42 & \(0.6 \%\) \\
\hline Bus (H28) & 104 & 100 & \(1.3 \%\) & 82 & 799 & \(1.1 \%\) \\
\hline Vehicle Driver & 4849 & 4661 & \(58.8 \%\) & 42356 & 4101 & \(57.8 \%\) \\
\hline Vehicle Passenger & 2295 & 2253 & \(28.1 \%\) & 1589 & 1570 & \(21.7 \%\) \\
\hline Motorcycle & 27 & 29 & \(0.3 \%\) & 20 & 26 & \(0.3 \%\) \\
\hline Total & 8257 & 7919 & \(100 \%\) & 7419 & 7116 & \(100 \%\) \\
\hline
\end{tabular}

\subsection*{8.4 Homebase and Tesco Traffic Distribution}
8.4.1 For the traffic periods reviewed in the preparation of this note, between \(66 \%\) and \(75 \%\) of Tesco

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traffic approaches the site from the south，from the direction of the A4 Great West Road．Similarly， for the Homebase site，between \(73 \%\) and \(78 \%\) of site traffic approaches the side from the north， from the direction of the A4，Great West Road．

\section*{8．5 On－street Car Parking Demand}

8．5．1 Lambeth style car parking beat surveys have been undertaken to establish on－street parking demand，in the vicinity of the Tesco and Homebase development sites．For an approximate 200 m walk distance from the sites，on－street parking demand data has been obtained for all local streets． The kerbside parking beat surveys were carried out at Wednesday \(3^{\text {rd }}\) and Thursday \(4^{\text {th }}\) July 2019. As required by the Lambeth methodology，the surveys were undertaken overnight，at times when resident car parking can be expected to be at its peak．

8．5．2 Table 8.5 presents the car parking capacity for local streets in the study area，located to the south of the A4，Great West Road．Table 8.6 presents the observed parking demand and Table 8.7 presents the parking stress（\％occupation）．This analysis excludes the B454 Syon Way，which is considered separately beneath these tables．

Table 8．5：On－street Parking Capacity，South of the A4 Great West Road
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Street & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|c|}{} \\
\hline Restriction／ & §
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矿
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I &  &  &  \\
\hline Red Route Clearway & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Zigzag Lines & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Pedestrian Crossing & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Double Yellow & － & － & 11 & 1 & － & － & 2.7 & － & 100 & 14 & 13 & 2 & 16 & 2 & 63 & 9 & 54 & 8 & 40 & 6 & 0 & 0 \\
\hline Bus Stop／Bus Stand & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Unrestricted & 164 & 32 & 128 & 22 & 496 & 98 & 261 & 44 & － & － & － & － & － & － & － & － & 1.5 & － & － & － & 1049 & 196 \\
\hline Narrow & 164 & 32 & 147 & 27 & － & － & 212 & 42 & － & － & 137 & 26 & 199 & 37 & 341 & 62 & 235 & 36 & 242 & 39 & 1677 & 301 \\
\hline Drop Kerb & － & － & 31 & 2 & － & － & 31 & 2 & 70 & 10 & 5 & － & 44 & 7 & 33 & 4 & 48 & 7 & 17 & 3 & 274 & 35 \\
\hline Single Yellow & － & － & － & － & － & － & － & － & 20 & 2 & － & － & 15 & 2 & 10 & 1 & 19 & 3 & 16 & 3 & 80.5 & 11 \\
\hline White Line／Drop Kerb & － & － & 11 & 1 & － & － & 5.4 & 1 & 5.6 & 1 & － & － & － & － & － & － & － & － & 5.5 & 1 & 27.4 & 4 \\
\hline Parking Bay & － & － & － & － & － & － & 65 & 12 & － & － & － & － & － & － & － & － & － & － & － & － & 65 & 12 \\
\hline Disabled Bay & － & － & － & － & － & － & 26 & 4 & 5.4 & 1 & － & － & － & － & － & － & － & － & 6.1 & 1 & 37.4 & 6 \\
\hline Resident Permit Holders & － & － & － & － & － & － & － & － & 154 & 26 & 103 & 20 & 145 & 26 & 261 & 49 & 193 & 36 & 164 & 31 & 1020 & 188 \\
\hline Red Route Parking Bay & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Double Red & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Single Red & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & － & 0 & 0 \\
\hline Total & 328 & 64 & 328 & 53 & 496 & 98 & 604 & 105 & 356 & 54 & 259 & 48 & 419 & 74 & 708 & 125 & 551 & 90 & 490 & 84 & 4230 & 753 \\
\hline
\end{tabular}

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Table 8.6: On-street Parking Demand, South of the A4 Great West Road
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Street & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} \\
\hline \begin{tabular}{l}
Restriction / \\
Survey Day \\
(T- Tues, W - Wed)
\end{tabular} & T & W & T & W & T & W & T & W & T & W & T & W & T & W & T & W & T & W & T & W & T & W \\
\hline Red Route Clearway & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Zigzag Lines & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Pedestrian Crossing & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Double Yellow & - & - & 0 & 0 & - & - & - & - & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Bus Stop / Bus Stand & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Unrestricted & 0 & 0 & 19 & 21 & 0 & 0 & 25 & 25 & - & - & - & - & - & - & - & - & - & - & - & - & 44 & 46 \\
\hline Narrow & 0 & 0 & 1 & 1 & - & - & 0 & 0 & - & - & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 2 & 2 & 1 & 5 & 4 \\
\hline Drop Kerb & - & - & 0 & 0 & - & - & 1 & 1 & 0 & 0 & - & - & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 \\
\hline Single Yellow & - & - & - & - & - & - & - & - & 0 & 0 & - & - & 0 & 0 & 0 & 0 & 2 & 1 & 1 & 1 & 3 & 2 \\
\hline White Line I Drop Kerb & - & - & 0 & 0 & - & - & 0 & 0 & 0 & 0 & - & - & - & - & - & - & - & - & 0 & 0 & 0 & 0 \\
\hline Parking Bay & - & - & - & - & - & - & 6 & 5 & - & - & - & - & - & - & - & - & - & - & - & - & 6 & 5 \\
\hline Disabled Bay & - & - & - & - & - & - & 4 & 4 & 0 & 0 & - & - & - & - & - & - & - & - & 1 & 1 & 5 & 5 \\
\hline Resident Permit Holders & - & - & - & - & - & - & - & - & 22 & 20 & 17 & 15 & 19 & 18 & 42 & 41 & 30 & 29 & 25 & 26 & 155 & 149 \\
\hline Red Route Parking Bay & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Double Red & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Single Red & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & 0 & 0 \\
\hline Total & 0 & 0 & 20 & 22 & 0 & 0 & 36 & 35 & 22 & 20 & 17 & 15 & 19 & 18 & 43 & 41 & 33 & 32 & 29 & 29 & 219 & 212 \\
\hline
\end{tabular}

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Table 8.7: On-street Parking Occupancy (Street Stress \%), South of the A4 Great West Road
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Street & \multicolumn{2}{|c|}{合} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|c|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|l|}{} & \multicolumn{2}{|c|}{} \\
\hline Restriction / Survey Day (T- Tues, W Wed) & T & w & T & w & T & w & T & w & T & w & T & w & T & w & T & w & T & w & T & w & T & w \\
\hline Red Route Clearway & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Zigzag Lines & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Pedestrian Crossing & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Double Yellow & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Bus Stop / Bus Stand & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Unrestricted & 0\% & 0\% & 86\% & 95\% & 0\% & 0\% & 57\% & 57\% & - & - & - & - & - & - & - & - & - & - & - & - & 22\% & 23\% \\
\hline Narrow & 0\% & 0\% & 4\% & 4\% & - & - & 0\% & 0\% & - & - & 0\% & 0\% & 0\% & 0\% & 2\% & 0\% & 3\% & 6\% & 5\% & 3\% & 2\% & 1\% \\
\hline Drop Kerb & - & - & 0\% & 0\% & - & - & 50\% & 50\% & 0\% & 0\% & - & - & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 0\% & 3\% & 3\% \\
\hline Single Yellow & - & - & - & - & - & - & - & - & 0\% & 0\% & - & - & 0\% & 0\% & 0\% & 0\% & 67\% & 33\% & 33\% & 33\% & 27\% & 18\% \\
\hline White Line I Drop Kerb & - & - & 0\% & 0\% & - & - & 0\% & 0\% & 0\% & 0\% & - & - & - & - & - & - & - & - & 0\% & 0\% & 0\% & 0\% \\
\hline Parking Bay & - & - & - & - & - & - & 50\% & 42\% & - & - & - & - & - & - & - & - & - & - & - & - & 50\% & 42\% \\
\hline Disabled Bay & - & - & - & - & - & - & 100\% & 100\% & 0\% & 0\% & - & - & - & - & - & - & - & - & 100\% & 100\% & 83\% & 83\% \\
\hline Resident Permit Holders & - & - & - & - & - & - & - & - & 85\% & 77\% & 75\% & 75\% & 73\% & 69\% & 86\% & 84\% & 83\% & 81\% & 81\% & 84\% & 82\% & 79\% \\
\hline Red Route Parking Bay & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Double Red & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline Single Red & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - & - \\
\hline
\end{tabular}
8.5.3 Residents permit holder parking bays have been observed to operate with a parking stress of \(79 \%\) to \(82 \%\). It can be concluded that the surveys demonstrate a 'moderate' level of kerbside parking stress, indicating some available spare capacity of on-street visitor parking associated with the residential units. A detailed analysis of proposed measures to control parking at the development site can be found in Section 9.4.

\subsection*{8.6 Summary}
8.6.1 This section has provided a study of existing pedestrian movements on the local highway network which has been used to inform the design of the proposed development, both in terms of access to the proposed development itself (proposed new signal junction replacing the old Homebase priority control access on Syon Lane), and the associated proposed off-site highway improvements. This section also provides a study of existing traffic movements to the existing Osterley Tesco and the Homebase sites which have been used later in this report (Sections 10 and 11) to assess / model the net changes in traffic on the local highway network resulting from the proposed development. A study of existing on street car parking stress has also been undertaken within this section which shows a moderate level of kerbside parking stress; however the development proposals are not likely to impact on this. Car parking for the proposed development will be provided in line with London Plan standards resulting in a slight decrease in the total amount of car parking provided on site overall compared to the existing situation. Proposed Development

\section*{9 Development Description}
9.1.1 The proposed development forms the topic of a planning application that seeks permission for the following:
"The demolition of existing building and car park and erection of buildings to provide residential units, a replacement retail foodstore, with additional commercial, business and service space, and a flexible community space, and ancillary plant, access, servicing and car parking, landscaping and associated works"
9.1.2 Specifically, the application includes:
- Delivery of 473 high quality homes;
- 38\% affordable housing (on a habitable room basis);
- A new and modern Tesco retail store of circa 10,550 sqm (GIA);
- Community space of 200 sqm;
- 137 sqm (GIA) of flexible commercial, business and service space;
- 400 retail car parking spaces;
- 100 residential car parking spaces;
- 3 residential visitor car parking spaces and 2 car club spaces;
- 204 retail cycle parking spaces;
- 896 residential cycle parking spaces;
- Building heights include a four-storey podium with blocks ranging up to seventeen storeys;
- Communal residential amenity space with biodiverse podium gardens including open space and children's play space;
- New active frontages and improved, safer public realm along Syon Lane and the Great West Road;
- Dedicated new pedestrian and cycle friendly 'clean air' route provided between Syon Lane Station and the Great West Road via Syon Gate Way and new eastern street, Syon Gate Lane.
9.1.3 It is noted that the existing Tesco store, on the Tesco, Osterley site, is 11,582 sq.m GIA, and is therefore circa 1,000sq.m larger than the proposed Tesco store. While the size of the replacement store on the Homebase, Brentford site is smaller than existing, the assessment contained in this document does not discount trips as a result of the floor area reduction, and instead reassigns existing Tesco trips to the new site. The assessment contained in this document can therefore be considered a worst case assessment of future Tesco travel demand.
9.1.4 The scheme has been designed in accordance with Healthy Streets principles, prioritising pedestrian and cycle movement (more details regarding these principles are provided in Section

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3). Public realm improvements are proposed at the Syon Lane and the A4 Great West Road frontages of the site, whilst improving pedestrian infrastructure on the southern perimeter of the site (Syon Gate Way). The proposed improvements incorporate enhancements to existing cycle infrastructure in the vicinity of the site by providing a continuous cycle lane link across the northern frontage of the site. This is in line with the proposed Syon Lane to Boston Manor Road Cycle Track (refer to Section 7).
9.1.5 Pedestrian access to the proposed Tesco store will be served by a dedicated access at the northwestern corner of the site, adjacent to Gillette Corner. Pedestrian access for the residential units would be provided on all four frontages of the site.
9.1.6 The development's vehicular access to the car parking area is taken from the location of the existing site access junction, from Syon Lane. A two-way ramp will serve a two-storey car park. It is proposed that the junction of main vehicular access with Syon Lane will take the form of a threearm signalised junction.
9.1.7 It is proposed that the Tesco store would be provided with 400 customer car parking spaces, with the residential development provided with 105 car parking spaces (including 2 dedicated car club spaces and 3 visitor parking spaces).
9.1.8 Proposed on-site servicing facilities are located at the southern perimeter of the site. Additionally, a servicing layby is proposed at the site interface with Syon Gate way.
9.1.9 Insert 9.1 presents an overview of the proposed ground floor layout indicating key features relating to access and servicing.

Insert 9.1: Proposed Ground Floor Layout Overview

9.1.10 Architectural plans of the proposed development are contained in Appendix L.

\subsection*{9.2 Proposed Site Access Strategy}

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9.2.1 The proposed development has been developed to consider access opportunities at all frontages, to create active streetscape with natural surveillance. The focal point for the Tesco store access is provided at the north-western corner of the site, adjacent to Gillette Corner. The prominent retail site frontages would be on Syon Lane and Great West Road.
9.2.2 Syon Gate Way provides a quieter and more controlled environment for servicing access, whilst the formation of an emergency access route at the eastern perimeter of the site would allow for further permeability within the adjacencies of the proposed development.
9.2.3 The key access functions of the site frontages are summarised as follows:
- Syon Lane (western frontage):
- Car parking vehicular access;
- Tesco Store pedestrian access;
- Pedestrian access to three (Blocks C, D and E) residential cores
- Café access (via Tesco entrance);
- Retail unit pedestrian access;
- Concierge.
- Great West Road (northern frontage):
- Tesco Store pedestrian access (northern approach);
- Pedestrian access to two residential cores;
- Means of escape.
- Syon Gate Way (southern frontage):
- On-site service yard vehicular access;
- Pedestrian access to a residential core;
- Dedicated on-street loading bay.
- Syon Gate Lane (eastern frontage):
- Pedestrian access to two residential cores
- Means of escape.

\section*{Pedestrian Access}
9.2.4 The main focal point for pedestrian access will be at the north-western frontage of the site at the junction of Syon Lane and Great West Road (Gillette Corner). Stepped and ramped approaches would be provided at both the Syon Lane and Great West Road frontages.
9.2.5 Insert 9.2 presents the proposed location of each residential core, in relation to the site's four frontages. This plan is also attached within Appendix L.

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Insert 9.2: Proposed Residential Core Location Plan

9.2.6 Pedestrian access routes to residential cores are provided at all four frontages of the site distributing pedestrian access/egress patterns across the peripheries of the site:
- Syon Lane (western frontage):
- Pedestrian Core C north of Syon Gateway;
- Pedestrian Core D south of vehicle ramp;
- Pedestrian Core E north of the vehicle ramp.
- Great West Road (northern frontage):
- Pedestrian Core A east of the Tesco store access;
- Pedestrian Core B1 east of the Tesco store access.
- Syon Gate Way (southern frontage):
- Pedestrian Core C west of the service yard access
- Emergency Access Road (eastern frontage):
- Pedestrian Core B2 and B3
9.2.7 The proposed development would provide public realm improvements in the adjacencies of the site, which would result in an attractive pedestrian environment for future site and residents, as well as pedestrians that traverse the site frontages as part of local access routes. The public realm improvements have also been proposed with consideration of the wider aspirations presented within the Great West Corridor Local Plan which, as referenced in Section 7, encourage designers and developers to "actively encouraging walking and cycling through the provision of an attractive public realm".
9.2.8 Insert 9.3 presents proposed public realm improvements that rationalise and enhance the pedestrian and cycling environment at the Syon Lane and Great West Road frontages of the site.

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Insert 9.3: Proposed Public Realm Improvements, Syon Lane and Great West Road Frontages


\section*{Cycle Access}
9.2.9 As discussed in Section 4, a partially off-road cycle route, in the adjacencies of the A4, operates along the site's northern perimeter and as such the proposed development will benefit from direct access to London's strategic cycle network, which provides a wide range of route options. the proposed development includes improvements to an existing cycle route operating along the A4 at the northern perimeter of the site. At present the off-road cycle lane merges with the vehicular traffic immediately to the east of the site and as such use the main carriageway at Gillette Corner. The proposed cycle infrastructure improvements associated with the development provide a continuous link across the northern frontage of the site, guiding cyclists to the front of the stop lines at the signalised junction of Great West Road and Syon Lane (Gillette Corner).
9.2.10 Cycle parking facilities for the residential units are discussed in further detail below. Cycle access for the residential units is primarily taken from the lifts at each pedestrian core, which incorporates lift dimensions which are suitable for cycle access.. All 896 cycle stores spaces would be located on the upper three floors, on levels mezzanine to third. The cycle lift would be accessed from street level along Syon Gate Way. The ramped vehicle access from Syon Lane also provides an opportunity for residential cycle access. The location of proposed cycle parking spaces is shown on architectural drawings contained in Appendix L.

\section*{Servicing Access}
9.2.11 All site servicing is to be undertaken from Syon Gate Way, or from within defined service yards.
9.2.12 Tesco would be provided with their own dedicated service yard, with all vehicles able to enter and exit the site in a forward gear.
9.2.13 The residentail development would eb serviced from a loading bay on Syon Gate Way, or from an on-site delivery bay for use by home delivery vehicles.

\subsection*{9.2.14 Associated vehicle tracking is contained in Appendix M.}

\subsection*{9.3 Site Vehicular Access}
9.3.1 The proposed development would retain vehicular access from Syon Lane, close to the location of the existing Homebase site access, as shown in Insert 9.4. This is considered to be the best location for access in terms of highway design in order to incorporate the existing Syon Lane staggered signal pedestrian crossing into the proposed site access junction signal timing operation. The location also allows for the existing pedestrian crossing to the east of the site access to be retained in its current location and for the site access to remain an appropriate distance away from the A4 / Gillette Corner. Syon Lane is considered to be the best location for the site access junction as any alternative site access junction with the A4 for example is deemed inappropriate given the significantly higher volume / speed of traffic on this route. More specifically, the proposed site access junction design has been developed in its chosen location to achieve the following objectives:
- To develop a junction layout which can accommodate safe and efficient passage for pedestrians and cyclists, and one that avoids unnecessary delay to bus services.
- To facilitate suitable operation in accordance with the requirements of Tesco (i.e. such as to avoid an unattractive/ burdensome junction that may discourage customers from using the proposed store).
- To derive a junction design which does not generate a significant risk of excessive queuing from the new Tesco junction back to the Gillette Corner junction.
- To develop the geometric design of the site access junction within the constraints of the currently proposed design of the site.
- To present a junction design that operates efficiently for all user groups.
9.3.2 The design of the proposed site access has been developed to accommodate access and egress to/from the two-storey car parking facility, which will accommodate the Tesco customer parking as well as parking for the residential element of the scheme.
9.3.3 Given the car parking turnover rate associated with food retail use is generally significantly higher than that of the existing Homebase use, and in view of the addition of residential parking, the proposed site access arrangements consider the provision of a signalised three-arm junction in place of the existing priority junction.
9.3.4 The proposed vehicular access design for the site would comprise of a ramped access to the car parking, incorporating two exit lanes and one entry lane at the site interface with Syon Lane. Tracking for this access is provided in Appendix M.
9.3.5 Some residential car parking (33 spaces) and a home shopping delivery bay is provided in the basement, access from Syon Gate Way. This access would be a low traffic environment and would operate with one-way shuttle working, controlled by traffic signals.

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Insert 9.4: Proposed Syon Lane Vehicular Site Access

9.3.6 With reference to the proposed site access solutions, a Stage 1 Road Safety Audit has been undertaken. This is provided in Appendix V of this document and a Designer's Response to the Audit is provided in Appendix W.

\section*{Pedestrian Crossing Facilities}
9.3.7 In view of the notable levels of pedestrian movement observed across the site access on Syon Lane (discussed in Section 8), and in accordance with the requirements of the Healthy Streets approach, the design of the proposed site access has been developed with due consideration of safe pedestrian crossing to provide suitable pedestrian capacity for users of all abilities.
9.3.8 During pre-application discussions with LBH, the local authority expressed a preference for the provision of a direct 'straight-across' pedestrian facility at the site access arm of the junction and this is therefore incorporated into the design.

\subsection*{9.4 Car Parking Provision}
9.4.1 Proposed car parking at the development would be provided in the form of a two storey car park above the Tesco store, together with further residential parking within a separate basement facility.
9.4.2 The proposed Tesco store would be provided with 400 customer car parking spaces, with the residential development provided with up to 105 parking spaces (including 2 dedicated car club spaces and 3 visitor parking spaces). Customer car parking will be provided across both floors of parking whereas the residential car parking will be provided in a segregated gated area in the second tier of the proposed car park and also in the basement.
9.4.3 The proposed car parking provisions are discussed below in respect of a reduction in existing Tesco car parking and the maximum car parking standards set out in the currently adopted, and

\author{
Draft New, London Plan.
}

\section*{Tesco Car Parking}
9.4.4 The proposed quantum of on-site car parking would result in a net reduction of 225 car parking spaces when compared to the existing Tesco Osterley store.
9.4.5 The current adopted local plan would permit the Tesco store to be provided with between 358 and 536 customer car parking spaces. The proposed level of provision ( 400 spaces) is towards the lower end of this permissible range and would hence be acceptable in regard to the adopted local plan.
9.4.6 The Draft New London Plan parking standards for an Outer London Opportunity Area (PTAL rating 2-4) require a reduced level of parking in comparison to the adopted London Plan. The application of the Draft New London Plan parking standards to a food retail site of \(10,550 \mathrm{sqm}\) (GIA) would result in a maximum parking provision of 141 parking spaces, which is below the car parking provision that is considered in this application.
9.4.7 However, with consideration of the removal of the Tesco Osterley site (circa 625 car parking spaces) and effectively the 295 car parking spaces associated with Homebase, the proposed retail car parking provision accords with the principle of the draft new plan which states that "existing parking provision should be reduced to reflect the current approach and not be re-provided at previous levels where this exceeds the standards set out in this policy."
9.4.8 With regard to management and monitoring of the car parking facility, as set out in the introduction, a dedicated Car Parking Management Plan (CPMP) has been prepared by RHDHV that accompanies this application as a stand-alone document. The CPMP includes measures and initiatives that aim to limit car park use to short stay parking associated with the development site, only. The measures considered within the CPMP are also supported by standalone Travel Plan documents that have been prepared for the development's proposed retail and residential uses.
9.4.9 Within the context of the above, it is noted that hourly car parking demand at Tesco Osterley exceeded 400 spaces (the proposed quantum of Tesco car parking as part of this application) based on empirical survey data (refer to Section 8). Given that there is a direct correlation between car parking provision and the potential traffic attraction to the development, the reduction of 225 spaces ( \(36 \%\) reduction) would act to constrain car driver trips and encourage a shift towards noncar modes. This approach is in accordance with the sustainable travel principles underpinning policy.
9.4.10 In seeking to further align the proposals with the emerging London plan policies, it is acknowledged and agreed in principle with TfL that a flexible approach will be considered, whereby further retail parking spaces can be repurposed at a later date in tandem with improvements to local public transport services and measures to encourage trips by walking and cycling.
9.4.11 Electric vehicle car charge points will be provided for \(10 \%\) of all parking spaces on first site occupation, with passive provision made such that all car parking on-site could have access to an electric car charge point in the future if required.

\section*{Residential Car Parking}
9.4.12 With regards to residential parking at the site, the proposed development has been designed with consideration of maximum standards contained within the Draft New London Plan. Table 9.1
summarises the relevant standards.
Table 9.1: Draft New London Plan Maximum Residential Parking Standards
\begin{tabular}{|l|l|}
\hline Location & Maximum parking provision \\
\hline \begin{tabular}{l} 
Outer London PTAL 4 \\
Outer London Opportunity Areas
\end{tabular} & Up to 0.5 spaces per dwelling \\
\hline Outer London PTAL 3 & Up to 0.75 spaces per dwelling \\
\hline Outer London PTAL 2 & Up to 1 space per dwelling \\
\hline
\end{tabular}
9.4.13 Based on the proposed 473 residential units, the application of the Draft New London Plan standards, considering an Outer London Opportunity Area, the maximum number of parking allowance would be 237 residential car parking spaces.
9.4.14 The proposed provision of 105 parking spaces (including car club and visitor parking) is significantly lower than the level permissible by the Draft New London Plan maximum parking standards, underlining the commitment of the development to encouraging the use of active travel and public transport modes.
9.4.15 Electric vehicle car charge points will be provided for \(20 \%\) of all residential parking spaces on first site occupation, with passive provision made such that all car parking on-site could have access to an electric car charge point in the future if required. This provision is in accordance with policy.
9.4.16 This low car environment will be supported by local on-street car parking controls. Parking in the local area is managed through the LBH operated Controlled Parking Zone SLS, which allows permit holders only to park on-street in defined areas from 09:00 to 18:00, Monday to Friday. It is not envisaged that any residents at the proposed development will be eligible to obtain an onstreet car parking permit.
9.4.17 The CPMP discussed above considers the management of residential car parking spaces and considers that the allocation of parking spaces to residents will be considered in line with the requirements of the Draft New London Plan, which stipulate:
- All parking spaces to be leased rather than sold;
- Disabled persons parking bays associated with residential development not to be allocated to specific dwellings;
- At least one designated disabled persons parking bay per dwelling, for \(3 \%\) of all dwellings, to be available from the outset; and
- The provision one designated disabled persons parking bay per dwelling, for \(10 \%\) of all dwellings, to be made available if or when required.

\section*{Blue Badge Holders/Disabled Parking Space Provision}
9.4.18 The respective land uses would be expected to provide a percentage of disabled persons parking.
9.4.19 For the retail land use, \(6 \%\) of the total is required, which would equate to 24 spaces. These spaces would be located adjacent to the main entrance for ease of use.
9.4.20 The residential development is required to provide blue badge holder parking for \(3 \%\) of dwellings
at day one. This requirement equates to 14 spaces, however the scheme allows for up to 24 such spaces.

\section*{On Street Car Parking}
9.4.21 The introduction of the site's traffic signal-controlled site access junction will conflict with on-street parking that exists opposite the site in Syon Lane. Currently space exists for 11 cars to park on Syon Lane opposite the site, within CPZ zone SLS. This includes one space reserved for a disabled driver. As a consequence of the development, it is proposed that space for eight cars is retained on Syon Lane within defined car parking bays. These bays would be retained within CPZ zone SLS.
9.4.22 To make up the shortfall in parking spaces, it is proposed that three additional defined parking spaces are provided in Northumberland Avenue, in the vicinity of its junction with Syon Lane. The proposed location of these spaces, and spaces retained on Syon Lane, is detailed in Appendix \(\mathbf{N}\) and these would also be contained within CPZ zone SLS. As a consequence of this provision 11 car parking spaces would be provided in place of the 11 spaces that currently exist.
9.4.23 It is worthy of note that there are additional opportunities to provide additional on-street parking on Northumberland Avenue, in the vicinity of Warkworth Gardens. Furthermore, on-street car parking surveys of streets within CPZ Zone SLS identified that these streets retain a reserve capacity, meaning that cars displaced from Syon Lane have the ability to park elsewhere, within a short walk distance of the existing parking provision.
9.4.24 In summary, impact on on-street car parking located opposite the site on Syon Lane can be adequately mitigated as part of the development proposals. Any changes to the location of onstreet car parking provision would be made subject to the changes to the local traffic regulation order.

\subsection*{9.5 Cycle Parking}
9.5.1 Cycle parking for both land uses would be provided in accordance with the draft New London Plan minimum cycle parking standards. The TfL cycle parking standards set out in the draft London Plan requires 'long stay' parking (for site residents and Tesco staff) and 'short stay' parking for site visitors (including Tesco customers). The standards are summarised below.
- Food Retail - Long Stay: 1 space per 175sqm gross external area (GEA); Short Stay: First 750 sqm, 1 space per 20sqm and thereafter 1 space per 150sqm (GEA).
- Non-food Retail - Long Stay: 1 space per 250 sqm (GEA); Short Stay: 1 space per 60 sqm
- Café - Long Stay: 1 space per 175sqm GEA; Short Stay: 1 space per 20sqm GEA;
- Residential - Long Stay: 1 space per studio apartment, 1.5 spaces per 1-bedroom apartment and 2 spaces for all other dwellings; Short Stay: 1 space per 40 dwellings.
9.5.2 Existing guidance and good practice suggest that long-stay parking should be no further than 50 m from entrances, however, it should be closer than the nearest nondisabled car parking bay. Cycle parking should be no more than one floor from the ground floor and well signposted. All long-stay cycle parking must be covered and secure.
9.5.3 In developing the detailed design of any long-stay cycle parking facilities current good practice
guidance stating that for two-tier stands, a recommended spacing between cycles of 500 mm , height 2600 mm and isle width 2500 mm are to be considered.
9.5.4 Similarly, existing good practice guidance as published by WestTrans advises that short-stay parking should be adjacent and no further than 15 m from the main entrance. As a general rule, it should be closer than the nearest non- disabled car parking bay or adjacent to the entrance. It should be clearly signed and preferably covered.
9.5.5 The design of the short-stay cycle parking spaces proposed within the public realm area in the vicinity of the site, will respect a minimum recommended spacing between Sheffield stands of 1000 mm measured from the centre line of the stand.

\section*{Retail Cycle Parking}
9.5.6 In accordance with TfL cycle parking standards, for \(10,550 \mathrm{sqm}\) of food retail floor space, the proposed development includes the provision of 62 secured and covered long-stay cycle parking spaces. The detailed design of the internal layout of the Tesco store will be developed subsequent to granting of planning consent and the provision of the long-stay cycle parking spaces for staff will be incorporated into the back-of-house areas in an area that is secured and readily available for staff. The location of showers, lockers and changing facilities will be considered in proximity to the long-stay cycle parking spaces.
9.5.7 Further to the above provision, short-stay spaces will be provided for Tesco customers in a publicly accessible location. These spaces will be primarily incorporated into the proposed public realm in the vicinity of the Tesco customer entrance at the northwest corner of the site. In order to reduce potential cluttering of the public realm and to avoid obstructing pedestrian desire lines, a proportion of the short-stay cycle parking will be provided within the Tesco store building in an area which does not obstruct shopper movements in and out of the main site entrance. Overall, 204 cycle parking spaces are proposed to support the retail development.
9.5.8 In respect of the kiosk/flexible retail and café uses that are considered as part of the proposed development it is noted that long-stay cycle parking provisions will need to be incorporated into the internal design of the relevant unit, with the quantum being defined in respect of the Draft New London Plan minimum cycle parking standards discussed above.
9.5.9 Short-stay cycle parking bays for the kiosk/flexible retail and café uses will be provided in the adjacent public realm improvements in the peripheries of the site. For non-food retail, short-stay cycle parking will be provided at a rate of 1 space per 60 sqm (GIA), whilst for the café, a higher provision rate of 1 space per 20 sqm (GIA) is to be provided.
9.5.10 Furthermore, it is noted that spaces for non-standard cycles, including adapted cycles for disabled people are to be considered as part of the total provision.

\section*{Residential Cycle Parking}
9.5.11 The proposed development would provide 896 residential cycle parking spaces. In respect of the residential element of the scheme, in adherence with Draft New London Plan cycle parking standards, based on a unit mix of 39 no. studio/1-bed flats, 162 no. 2person/1-bedroom units and 272 no. 2+-bedroom units, a minimum of 826 secured and covered long-stay spaces are required. The number of spaces required for the residential units is dependent on the type and proportion of dwelling which is ultimately decided upon.
9.5.12 With consideration of short-stay cycle parking spaces for visitors to the residential units, a total of six Sheffield Stands (12 cycle parking spaces - based on one space per 40 units for 473 no. residential units) are provided in publicly accessible locations.

\subsection*{9.6 Delivery and Servicing}
9.6.1 Syon Gate Way will serve as the point of access for all servicing vehicles accessing the site. The junction of Syon Gate Way with Syon Lane takes the form of a simple priority junction.
9.6.2 The proposed on-site servicing facility has been designed to accommodate access by large servicing vehicles. In assessing the suitability of the existing junction swept path analysis has been carried out for various servicing vehicles accessing Syon Gate Way via Syon Lane, and similarly egressing Syon Gate Way onto Syon Lane. The proposed on-site servicing yard facilitates vehicle turning on-site and as such it is possible for servicing vehicles to access and egress Syon Gate Way and Syon Lane in forwards gear.
9.6.3 Appendix M provides vehicle tracking drawings associated with access and site servicing.
9.6.4 Within Appendix M, presents the swept path assessment of a large refuse vehicle entering Syon Gate Way and turning to exit the site in forward gear. Refuse vehicles can of course continue ahead to route onto the A4, without the need to turn.
9.6.5 Appendix M demonstrates that a maximum legal articulated vehicle (16.5m) can also access Syon Gate Way and the proposed Tesco service yard and depart the site in forward gear. The appendix demonstrates that the proposed service yard provides sufficient clearance for 3 no. maximum legal articulated vehicle (16.5m) to access, load/unload and egress in forward gear independently of each other.
9.6.6 Appendix M presents swept path analysis for a 7.5t Box Van to access the proposed servicing layby adjacent to the site via Syon Gate Way and execute a three-point turning manoeuvre to egress onto Syon Lane in forward gear. The appendix also illustrates a large home delivery vehicle accessing the basement.
9.6.7 A comprehensive review of proposed delivery and servicing arrangements is presented within the Delivery and Servicing Plan which accompanies the planning application as a stand-alone document.

\section*{Residential Deliveries and Collections}
9.6.8 Based on general servicing requirements, the majority of items delivered to the residential will be in the form of mail and small packages that can be posted into the mailboxes on the ground level of each residential building. Suppliers delivering mail and small packages will be allowed to access the ground floor of each residential core to access the post boxes by the site management staff via video intercom. In order to keep the building secure, access to the lifts, stairs and upper floors will not be permitted except for residents and accompanied guests. Deliveries of larger parcels, food and takeaways will be made to the ground floor reception area where the resident will collect their delivery at ground level.
9.6.9 The development scheme has been designed to include residential reception areas which will allow parcels to be delivered to site at times when residents may not be at home. This will avoid the need for delivery companies to make return journeys to the site in association with the delivery of a single parcel. The site management staff will store these items within either an automatic
locker (for residents to self-collect) or a locked storeroom for larger deliveries.
9.6.10 The servicing bay proposed at the site interface with Syon Gate Way provides a suitable opportunity for delivery vehicles to load/unload away from the public highway adjacent to a network of on-site pathways that facilitate access to the on-site buildings. A further delivery bay is provided within the building basement.
9.6.11 Deliveries of larger items such as furniture will require the site management staff to supervise access to the resident's apartment at a prearranged time.

\section*{Retail Deliveries and Collections}
9.6.12 All food retail deliveries and collections will be carried out from the dedicated on-site servicing facility. The service yard is afforded internal access to the Tesco back-of-house ( BOH ) areas and, as such, all deliveries will be accepted and managed through the building interior.
9.6.13 Given that Tesco deliveries will be carried out by pre-approved and established suppliers there is scope for efficient implementation of scheduling procedures. Where practicable, deliveries will be subject to a suitably even temporal distribution such as to allow sufficient spare service yard capacity for residential deliveries that will be more sporadic and unpredictable by nature.
9.6.14 Tesco staff will attend all deliveries and accept all goods for dissemination through the BOH areas. Internal procedures will be established such as to ensure that the service yard is not obstructed by delivered goods that are to be transferred to appropriate stocking locations.
9.6.15 Other smaller retail units will be required to coordinate deliveries with Tesco such as to, as far as practicable, avoid conflicts and where possible avoid transferring any goods via the external peripheries of the buildings.
9.6.16 It should be noted that the service yard has been designed to allow capacity for vehicles awaiting loading or unloading to wait off street, to avoid issues with parking or blocking back onto the public highway.

\subsection*{9.7 Refuse Collection}
9.7.1 Full details of refuse collection are provided within the Waste Management Plan accompanying the planning application, prepared by others.
9.7.2 All refuse collection will be carried out via Syon Gate Way. The retail element of the scheme will be served by commercial waste collection contractors while the residential units will be served by Local Authority waste collection services.

\section*{Residential Refuse Collection}
9.7.3 The proposed development has been designed with consideration of the Local Authority waste collection services attending the site on a weekly basis. To enable this to take place the site's waste collection stores have been designed with reference to the guidance contained within BS5906 (2005).
9.7.4 Waste will be collected from a presentation area located adjacent to Syon Gate Way, with bins moved to and from the area by an electric tow vehicle, from the bin store.

\section*{Retail Refuse Collection}
9.7.5 The Tesco store will have arrangements for private refuse to be undertaken. The refuse will be collected from within their proposed service yard with vehicles entering and exiting in a forward gear.
9.7.6 Given that the Tesco store will commission a private refuse collection contractor it is reasonably feasible to ensure their refuse collections are scheduled such as to avoid any conflicts with deliveries, whilst avoiding peak traffic hours and adhering to TfL's 'Code of Practice for quieter deliveries' (TfL, May 2018).
9.7.7 In view of the above, it is possible for the refuse generated by the store to be collated, compacted and consolidated in allocated BOH locations prior to scheduled collection times. Tesco staff will oversee the refuse collection process and ensure that wheeled bins are rearranged such as to avoid obstruction of manoeuvring and procedural logistics for other uses at the service yard.

\section*{10 Multi-modal Trip Generation and Attraction}

\subsection*{10.1 Preface}
10.1.1 This section of the report details the trip generation exercise that provides an estimate of the anticipated travel patterns for the operational phase of the development, providing the basis for assessing the impact of the proposed development. The primary sources of trip generation and attraction at the proposed development is the provision of 473 residential units, a replacement Tesco foodstore of 10,550sqm (GIA) and 135sqm of flexible commercial, business and service floorspace. The trips associated with these proposed uses are considered within the context of trips that will be removed or reassigned as a result of the removal of the following:
- Existing Homebase operating at the proposed development site.
- Tesco Osterley store (circa 11,582sq.m GFA and circa 625 parking spaces);
- The associated Petrol Filling Station (PFS)
10.1.2 The new Tesco store at the Homebase site would be provided with 400 customer car parking spaces, with the residential element of the scheme providing 105 parking spaces. Overall, the new Tesco would be provided with significantly fewer car parking spaces than the existing Tesco Osterley store; resulting in a reduction of approximately 225 parking spaces.
10.1.3 As part of a parallel planning application, it is understood that the Tesco Osterley site would be developed to provide around 1,677 residential units, with some local commercial development at ground floor level and up to 400 on-site residential car parking spaces. Any proposed commercial/retail offer at the Tesco Osterley site's would be effectively car free.
10.1.4 Within the context of the above, Table 10.1 below provides a summary of the trips that will be added, reassigned or removed as a result of the proposed applications at the Homebase Brentford (this application) and Tesco Osterley (parallel application) sites.

Table 10.1: Additional, Removed and Re-Assigned Trips Summary
\begin{tabular}{|l|l|l|}
\hline Development Site & Proposed Removal & Proposed Addition \\
\hline \begin{tabular}{l} 
Homebase Site \\
(this planning application)
\end{tabular} & \begin{tabular}{l} 
Homebase Store (4,180sq.m GFA) - \\
295 car parking spaces
\end{tabular} & \begin{tabular}{l} 
Tesco Store 10,550sqm (GIA) - 400 \\
Car Parking Spaces
\end{tabular} \\
\hline \begin{tabular}{l}
473 residential units - 105 car parking \\
spaces (Inc. Car Club and visitor \\
parking)
\end{tabular} \\
\hline Tesco Osterley Site \\
(parallel planning application) & Tesco store 8,412sq.m GFA -625 car \\
parking spaces; and \\
Petrol Filling Station & \begin{tabular}{l}
135 sqm flexible retail/office floor space \\
parking spaces \\
Ancillary commercial use
\end{tabular} \\
\hline
\end{tabular}
10.1.5 Table 10.1 shows that as a result of the development of the Homebase and Tesco Osterley sites, overall / total car parking will reduce slightly from 920 to 909 spaces. Retail car parking provision specifically will reduce significantly from 920 to 400 spaces.
10.1.6 Despite the proposed developments at the Homebase Brentford and Tesco Osterley sites forming separate planning applications, due to the relatively close proximity of the sites, and the inherent inter-relation between the removal and re-provision of the Tesco use, the trip generation exercise
herein relies on the estimation of trips relating to both proposals.
10.1.7 Supporting calculations and TRICS analysis and reporting output are contained in Appendix \(\mathbf{O}\).

\subsection*{10.2 Retail Vehicle Trip Attraction}
10.2.1 As outlined earlier in this Section, the proposed development will result in a significant net reduction in retail car parking provisions at the proposed development site and the site of the parallel planning application at Tesco Osterley. To this end, this section provides an estimate of the reduction in trips associated with the reduced parking resulting from the re-provision of the Tesco store at the proposed development site.
10.2.2 Further to the above, this trip generation/attraction exercise will quantify existing Homebase traffic that will be removed from the network and those relating to the PFS at the Tesco Osterley site that will not be re-provided as part of the proposed development or parallel application.

\section*{Tesco Trips}
10.2.3 Given the relatively close proximity of the Tesco Osterley site to the proposed development site, it is anticipated that the current customer patronage would broadly transfer over to the Tesco store that will be provided at the Homebase site.
10.2.4 The proposed Tesco store makes provision of significantly fewer car parking spaces than the existing Tesco Osterley site and, as such, the development of both sites would result in a reduction in car parking spaces from circa 625 to 400 car parking spaces. Given that the availability of car parking directly influences customer propensity towards driving to/from the store, it is considered that the reduction in car parking will reduce the quantum of car trips that can be feasibly attracted during the peak hours where the car park will commonly operate close to, or at, capacity.
10.2.5 Within the context of the above, it is noted that customer car parking space turnover rates will vary meaning that the reduction in vehicle trips is not necessarily a direct function of the reduction in car parking spaces. It is likely that the main modal shift will occur at times of peak car park demand.
10.2.6 In seeking to derive a suitable estimate of the impact of reducing the Tesco car parking capacity from circa 625 to 400 (a 36\% reduction) reliance has been made on surveys of the arrivals and departures at the existing Tesco Osterley car park. The hourly inbound and outbound trips have been used to carry out a parking accumulation exercise which caps the car parking capacity at 400 vehicles.
10.2.7 Table \(\mathbf{1 0 . 2}\) presents the results of the trip generation exercise in respect of the proposed 400 capacity Tesco car park. The data is based on a 7-day average across the surveyed data and is included in Appendix \(\mathbf{O}\).

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Table 10.2: Tesco Daily Trip Rates - Existing and Proposed
\begin{tabular}{|c|c|c|c|}
\hline Time & Existing Tesco Trips & Proposed Tesco Trips & Net Change \\
\hline 07:00-08:00 & 228 & 228 & 0 \\
\hline 08:00-09:00 & 395 & 395 & 0 \\
\hline 09:00-10:00 & 599 & 598 & 0 \\
\hline 10:00-11:00 & 737 & 687 & -50 \\
\hline 11:00-12:00 & 847 & 778 & -69 \\
\hline 12:00-13:00 & 955 & 911 & -44 \\
\hline 13:00-14:00 & 905 & 860 & -45 \\
\hline 14:00-15:00 & 865 & 856 & -8 \\
\hline 15:00-16:00 & 841 & 833 & -8 \\
\hline 16:00-17:00 & 738 & 738 & 0 \\
\hline 17:00-18:00 & 671 & 671 & 0 \\
\hline 18:00-19:00 & 661 & 661 & 0 \\
\hline 19:00-20:00 & 591 & 591 & 0 \\
\hline 20:00-21:00 & 499 & 499 & 0 \\
\hline 21:00-22:00 & 345 & 345 & 0 \\
\hline 23:00-07:00 & 82 & 82 & 0 \\
\hline 07:00-19:00 & 8443 & 8218 & \(-226\) \\
\hline 07:00-23:00 & 9953 & 9727 & \(-226\) \\
\hline 06:00-24:00 & 10002 & 9776 & -226 \\
\hline 24-Hour & 10035 & 9809 & -226 \\
\hline
\end{tabular}
10.2.8 In summary, over the course of an average day, the proposed Tesco site would provide fewer parking spaces and attract 226 fewer dedicated car/vehicle trips. This is considered a conservative estimate of the trip reduction, equating to only \(2 \%\) of total trips. It is anticipated that these trips would be redistributed amongst other modes, as part of a wider shift away from car journeys, in accordance with policy.

\section*{Homebase Traffic}
10.2.9 As a result of the development proposals, the existing Homebase traffic would be removed from the local highway network. The potential traffic attraction of a new retail occupier within the existing Homebase unit would also be removed as a consequence of the proposed development. The quantum of traffic to be removed from the existing site is detailed in Table 8.1 of this report.
10.2.10 Based on the surveyed data, over a 12-hour period, there are approximately 1,478 retail trips associated with the existing Homebase use that will be removed from the local highway as a result of the development of the proposed scheme.

\section*{PFS Traffic}
10.2.11 The existing Tesco petrol filling station will not be re-provided as part of the proposed development or parallel application.

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10.2.12 A 'Petrol Filling Stations Research' document was prepared in association with the inquiry into the anticipated merger between Sainsbury's and ASDA supermarket chains, by 'djs research' in February 2019. The research established that a high proportion of supermarket PFS customers were purchasing fuel but not visiting the associated foodstore. A large proportion of customers who were purchasing fuel and undertaking a supermarket shop stated that the PFS closure would mean they would divert their fuel spend but not their supermarket spend.
10.2.13 In practice, the trips associated with the PFS will be either removed or reassigned to another nearby PFS. The existing Tesco Osterley survey data has been interrogated in respect of the proportion of trips that enter the site to access the PFS and depart without accessing the Tesco car park; these would represent 'PFS Only' trips.
10.2.14 Inspection of the survey data indicates that the reduction in traffic movements that could result from the removal of the PFS would be in the order of 80 to 100 two-way 'PFS only' traffic movements observed to take place in and around the traditional peak hours of weekday travel demand with approximately 120 two-way trips being reduced during the Saturday lunchtime peak hour. The removal of this traffic represents the potential desire of Tesco PFS customers to utilise stations that offer petrol and diesel at a reduced rate. It is also recognised that some customers would prefer to shop at a foodstore that provides both a retail outlet and a PFS.
10.2.15 As presented at Insert \(\mathbf{1 0 . 1}\) there are a number of petrol filling stations in the surrounding area which would uptake the trips lost by removing the station at Tesco Osterley.

Insert 10.1: PFS location plan


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10.2.16 Based on the 2019 research conducted in association with ASDA and Sainsbury's operated petrol stations traffic movements in the vicinity of Tesco, Osterley are likely to reduce as a result of the removal of the Tesco petrol station. It is anticipated that:
- The diversion behaviour likely to result from the closure of the existing Tesco PFS would mean \(10 \%\) to \(14 \%\) of linked PFS and foodstore linked trips (12\% average) would divert to an alternative foodstore location, and would no longer route through the local highway network; and
- In the order of \(\mathbf{1 9 \%}\) of the customers who undertake a fuel only shop at the existing Tesco PFS would in future route to an alternative PFS site, located greater than 10 minutes away from the existing store, and would therefore no longer route through the local highway network.
10.2.17 Based on the proportions identified above it is anticipated that the total traffic diversion from the local highway resulting from the closure of the Tesco PFS would be as detailed in Table 11.5.

Table 10.3 PFS Traffic Diversion from Local Highway
\begin{tabular}{|l|c|c|c|}
\hline \multirow{2}{*}{ Time Period } & \multicolumn{3}{|c|}{ Total Traffic Diversion from Local Highway } \\
\cline { 2 - 4 } & Arrivals & Departures & Total Traffic \\
\hline Weekday 07:45-08:45* & 16 & 15 & 31 \\
\hline Weekday 17:00-18:00 & 23 & 22 & 46 \\
\hline Saturday 13:00-14:00 & 28 & 26 & 54 \\
\hline *Weekday AM Peak hour considered for the purpose of traffic modelling & & \\
\hline
\end{tabular}
10.2.18 Trips to the PFS originating from the A4 are assumed to continue straight on, not turning onto Syon Lane. In the AM peak, this equates to \(76 \%\) of trips continuing along the A4, as opposed to turning onto Syon Lane. this figure is \(71 \%\) in the PM peak and \(73 \%\) on the weekend peak.
10.2.19 The existing PFS trips originating from Syon Lane, either coming from the north or the south would continue on this route, either stopping at the PFS at Gillette Corner or continuing straight on.

\section*{Retail Vehicle Trip Generation - Summary}
10.2.20 In summary, over the course of a 12-hour day, it can be expected that relocation of the Tesco store and removal of PFS and Homebase sites would result in approximately 2,783 fewer retail trips on the local highways.
10.2.21 Importantly, Tesco traffic already exists on the local highway network and while the relocation of the Tesco store onto the Homebase site would result in a reassignment of trips locally, it is anticipated that the relocation of the Tesco store would result in an overall net decrease in traffic movements in and around the Syon Lane/ Great West Road (A4) junction.
10.2.22 In summary, the relocation of the Tesco store, with 225 fewer parking spaces will lead to a reduction in overall retail vehicle trips. In addition to this, removal of the existing Homebase site and PFS will lead to further reductions in traffic on the local highway. On this basis, the development proposals would act to reduce retail traffic movements on the local highway network.

\subsection*{10.3 Residential Person Trip Generation}
10.3.1 The development will include up to 473 residential units, with car parking to be provided at a ratio of around 0.21 spaces per dwelling. This, in combination with local on-street parking controls, will act to restrict car travel to and from the site.
10.3.2 The 'low car' approach has been developed in accordance with Policy T6.1 of the draft London Plan, which prescribes a maximum provision of 0.5 spaces per dwelling for development sites located in an Outer London Opportunity area.
10.3.3 In order to derive a realistic estimate of trip generation for the residential element of the proposed development, in the first instance, reliance has been made on surveys of residential sites contained within the TRICS database. A review of the TRICS database has not identified any residential (flatted units) sites in Outer London that include a car parking provision that is similar to the proposed scheme.
10.3.4 In light of the above, in seeking to establish a suitable means of estimating trip generation for such sites, reference has been made to TfL's 'Residential Car Parking' document which formed part of the London Plan evidence base, which concludes that there is a relationship between car ownership, car parking provision and car use. In this regard, a study of 'trips generated per car parking space', for a range of residential developments located in Greater London, as contained within the TRICS database, has been carried out. Based on this exercise it can be expected that in the order of one weekday peak hour traffic movement would be generated for every five residential car parking spaces provided at the sites.
10.3.5 In consultation with TfL and LBH, it has however been agreed that this assessment will consider that during the peak hour of travel demand each car parking space would generate 0.33 two-way car trips. This assessment is therefore likely to overestimate residential travel demand by car and this provides some assurance that the transport impact of the development would be within the bounds of this assessment.
10.3.6 In order to assess the residential trip generation of the sites by non-car modes, the following methodology is proposed:
- Residential person trips are to be generated from the 'included' TRICS sites listed in Appendix \(\mathbf{O}\). This methodology assumes that site location, and access to public transport services, does not influence the frequency of residents entering and leaving their homes.
- The 2011 'Method of Travel to Work' Census data for the local area is used to distribute trips by non-car modes of travel.
10.3.7 In terms of the Method of Travel to Work Census data, the assessment makes reference to travel patterns for existing residential development in the local area, specifically development located in the following lower layer super output areas: Hounslow 006E, Hounslow 009B, Hounslow 009C and Hounslow 014D. These areas encompass the Homebase and Tesco sites and would allow a focused assessment of existing travel patterns to be undertaken. The boundaries of these Census

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areas is provided in Appendix \(\mathbf{O}\). The modal split for the assessed data is summarised in Table 10.4 .

Table 10.4: Local Census Method of Travel to Work - Modal Split
\begin{tabular}{|l|c|}
\hline Mode of Travel & Mode Share* (\%) \\
\hline Underground, metro, light rail, tram & \(20 \%\) \\
\hline Train & \(21 \%\) \\
\hline Bus, minibus or coach & \(23 \%\) \\
\hline Taxi & \(1 \%\) \\
\hline Motorcycle, scooter or moped & \(2 \%\) \\
\hline A passenger in a car or van & \(4 \%\) \\
\hline Bicycle & \(6 \%\) \\
\hline On foot & \(15 \%\) \\
\hline Other methods of travel to work & \(1 \%\) \\
\hline
\end{tabular}
10.3.8 The assessment of trip generation is presented in full in Appendix \(\mathbf{O}\) and is summarised in Table 10.5. The assessment is based on 473 residential units and 105 associated car parking spaces, which includes three visitor parking spaces and two Car Club parking spaces, all of which would be provided on-site.

Table 10.5: Homebase Site Residential Trips (473 Units/ 105 Parking Spaces, inc. Car Club parking)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Mode of Travel} & \multicolumn{2}{|r|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 08:00-09:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 17:00-18:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 07:00-19:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{Saturday Peak*} \\
\hline & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs \\
\hline Underground, metro, light rail, tram & 10 & 54 & 33 & 17 & 184 & 213 & 21 & 35 \\
\hline Train & 11 & 58 & 35 & 18 & 199 & 231 & 23 & 38 \\
\hline Bus, minibus or coach & 12 & 62 & 38 & 19 & 213 & 247 & 25 & 41 \\
\hline Taxi & 0 & 2 & 1 & 1 & 7 & 8 & 1 & 1 \\
\hline Motorcycle, scooter or moped & 1 & 6 & 4 & 2 & 20 & 23 & 2 & 4 \\
\hline Driving a car or van & 6 & 29 & 23 & 12 & 106 & 122 & 14 & 20 \\
\hline Passenger in a car or van & 2 & 11 & 7 & 4 & 39 & 45 & 5 & 7 \\
\hline Bicycle & 3 & 17 & 10 & 5 & 59 & 68 & 7 & 11 \\
\hline On foot & 8 & 41 & 25 & 13 & 142 & 165 & 17 & 27 \\
\hline Other method of travel to work & 1 & 4 & 2 & 1 & 12 & 14 & 1 & 2 \\
\hline Total & 54 & 285 & 179 & 92 & 981 & 1134 & 116 & 188 \\
\hline
\end{tabular}

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10.3.9 It is estimated that the development of 473 residential units would generate some 339 and 270 two-way person trips during the weekday AM and PM peak hours, respectively. In both the AM and PM peak periods, 35 two-way trips would be made by car.

\section*{Pedestrian Demand}
10.3.10 Table 10.4 of this report provides the 'main mode' of travel for journeys to work for future site residents, and this modal split can be considered representative of travel patterns at times when the adjacent transport network is operating at its peak.
10.3.11 It is however recognised that many journeys to and from the site would be multi-modal and would start by a journey on foot. Table 10.6 provides an estimate of the journeys on foot to and from the site, based on a proportion of site residents walking to and from Syon Lane station, Osterley station and local bus services. Parts of a multi-modal journey made on foot are in addition to journeys whose 'main mode' of travel would be on foot.

Table 10.6: Homebase Site Residential Trips - Journeys on Foot
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Mode of Travel} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 08:00-09:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 17:00-18:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{gathered}
\text { Weekday } \\
\text { 07:00-19:00 }
\end{gathered}
\]} & \multicolumn{2}{|l|}{Saturday Peak*} \\
\hline & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs \\
\hline Underground (Osterley Station) & 5 & 27 & 16 & 8 & 92 & 106 & 11 & 18 \\
\hline Train (Syon Lane Station) & 11 & 58 & 35 & 18 & 199 & 231 & 23 & 38 \\
\hline Bus & 12 & 62 & 38 & 19 & 213 & 247 & 25 & 41 \\
\hline Taxi & - & - & - & - & - & - & - & - \\
\hline Motorcycle, scooter or moped & - & - & - & - & - & - & - & - \\
\hline Driving a car or van & - & - & - & - & - & - & - & - \\
\hline Passenger in a car or van & - & - & - & - & - & - & - & - \\
\hline Bicycle & - & - & - & - & - & - & - & - \\
\hline On foot & 8 & 41 & 25 & 13 & 142 & 165 & 17 & 27 \\
\hline Other method of travel to work & 1 & 4 & 2 & 1 & 12 & 14 & 1 & 2 \\
\hline Total Pedestrian Trips & 37 & 192 & 117 & 60 & 658 & 762 & 77 & 126 \\
\hline
\end{tabular}

NOTE: The assessment assumes:
- All residents routing to and from Syon Lane station do so on foot;
- All journeys made to or from a mainline rail station route to and from Syon Lane station;
- All journeys made to or from an Underground station route to and from Osterley station;
- All passengers of bus services E1, H28 and H91 connect with the service on foot;
- \(50 \%\) of Passengers that use London Underground service at Osterley station, connect on foot
10.3.12 The majority of pedestrian journeys are expected to route to and from public transport services.
10.3.13 Based on a two-way weekday pedestrian demand of 1,420 trips (07:00-19:00), journeys on foot would represent approximately \(67 \%\) of journeys made at the development site boundary.

\section*{Impact on Bus Services}
10.3.14 For the purpose of the assessment, it has been assumed that all development related bus trips will route, in the first instance, on bus services E1, H28 or service H91.
10.3.15 While the impact of development related bus trips has been assessed with regard to three bus services only, it should be recognised that the sites will not be fully constructed and occupied until 2026 and it can be expected that additional (or higher frequency) bus services could become operational locally to support the development of the Opportunity Area. This assessment is therefore likely to overestimate development related impact on any one of the three bus services referred to above.
10.3.16 This assessment has assumed that development related bus trips will include some connecting journeys to local mainline railway and underground stations. Specifically, this assessment assumes that \(50 \%\) of journeys made to Osterley Underground station would be made by bus.
10.3.17 The distribution of trips, by bus service, has been determined by Census data, presented in Appendix P. The results of the bus impact assessment are summarised in Table 10.7.

Table 10.7: Bus Travel Demand - Homebase Site Development
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Service Used} & \multirow[t]{2}{*}{\begin{tabular}{l}
Directio \\
n of Travel
\end{tabular}} & \multirow[t]{2}{*}{\%e Split} & \multicolumn{2}{|l|}{\[
\begin{gathered}
\text { Weekday } \\
\text { 08:00-09:00 }
\end{gathered}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 17:00-18:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 07:00-19:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\begin{tabular}{l}
Saturday Peak \\
Hour
\end{tabular}} \\
\hline & & & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs \\
\hline E1 & East & 8.4\% & 1 & 8 & 5 & 2 & 26 & 30 & 3 & 5 \\
\hline H28 & North & 40.3\% & 7 & 36 & 22 & 11 & 124 & 144 & 14 & 24 \\
\hline H28 & South & 12.9\% & 2 & 12 & 7 & 4 & 40 & 46 & 5 & 8 \\
\hline H91 & East & 28.8\% & 5 & 26 & 16 & 8 & 89 & 103 & 10 & 17 \\
\hline H91 & West & 9.6\% & 2 & 9 & 5 & 3 & 30 & 34 & 3 & 6 \\
\hline Total & - & 100.0\% & 17 & 90 & 55 & 28 & 308 & 357 & 36 & 59 \\
\hline
\end{tabular}

NOTE: The assessment assumes:
- \(50 \%\) of journeys made to or from an Underground station route to and from Osterley station (via service H28);
- A nominal impact is predicted on service E1 to support connections to rail services further afield;
- All other bus journeys route in directions indicated by 'travel to work' Census data (refer to Appendix P)
- It is recognised that this assessment includes an element of double counting with pedestrian trips, and this is included to ensure the resident related travel demand would fall within the bounds of this assessment.
10.3.18 Based on a two-way weekday bus journey travel demand of 665 trips (07:00-19:00), a journey by bus would form all (or part) of approximately \(31 \%\) of all journeys made to and from the development site.

\section*{Impact on Rail Services}

Due to the location of services it can be assumed that the majority of rail trips would route to and from the site via Syon Lane Station, and the majority of underground trips would route to and from Osterley Station.
10.3.19 Table 10.8 provides a summary of the associated travel demand.

Table 10.8: Rail Travel Demand - Homebase Site Development
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Mode of Travel} & \multicolumn{2}{|l|}{\[
\begin{gathered}
\text { Weekday } \\
\text { 08:00-09:00 }
\end{gathered}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 17:00-18:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{\[
\begin{aligned}
& \text { Weekday } \\
& \text { 07:00-19:00 }
\end{aligned}
\]} & \multicolumn{2}{|l|}{Saturday Peak*} \\
\hline & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs & Arrivals & Departs \\
\hline Underground (Osterley Station) & 10 & 54 & 33 & 17 & 184 & 213 & 21 & 35 \\
\hline Train (Syon Lane Station) & 11 & 58 & 35 & 18 & 199 & 231 & 23 & 38 \\
\hline Total & 21 & 112 & 68 & 35 & 383 & 443 & 45 & 73 \\
\hline
\end{tabular}

\section*{Future Changes to Travel Patterns}
10.3.20 This assessment has considered the impact of development related trips on existing transport infrastructure. It is however worthy of note that the development is not scheduled to be constructed and fully occupied until 2026, and significant changes to transport infrastructure could take place locally to support the development of the Opportunity Area.
10.3.21 This document has discussed transport proposals to support the development of the Opportunity Area, including new bus and rail connections that could influence the modal spilt of journeys. The development of infrastructure to support the Opportunity Area would also act to reduce the development impact on any one public transport service.
10.3.22 Furthermore, the delivery of Cycleway 9 and subsequent connections to and from this route, would encourage a greater proportion of residents to cycle.
10.3.23 The Mayor's Transport Strategy (2018) includes "a bold aim for 80 per cent of all trips in London to be made on foot, by cycle or using public transport by 2041." Based on the assessment provides above, 5,326 two-way trips would enter and exit the site boundary (weekday 07:00-19:00) on foot or by cycle and this represents approximately \(73 \%\) of all trips to be undertaken. As high quality alternative public transport connections are made locally, and cycle infrastructure is provided, it might be expected that the proportion of pedestrian and cycle trips to and from the site boundary would increase, with 80 percent trips to be undertaken on foot or by cycle by 2041 being a genuine possibility, in accordance with the Mayor's Transport Strategy

\subsection*{10.4 Servicing and Delivery Trips}
10.4.1 This Section presents an assessment of service vehicle trip attraction for the proposed development in order to provide a baseline estimate of the typical daily servicing activity at the site once the scheme is fully operational.
10.4.2 This assessment considers all proposed land uses, based on the following schedule of development:
- Residential development - 473 units;
- Tesco Food Retail Store - 10,550sqm (GIA);
- Flexible commercial, business and service space - 135 sqm.
10.4.3 Given the fact that the exact nature of the flexible use is unknown, in the interest of carrying out a robust service vehicle trip attraction exercise, this proposed floorspace is included within the food retail offer.

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10.4.4 Reliance has been made on surveys of the existing Tesco Osterley and Homebase Brentford sites in estimating servicing trips generated by these uses.
10.4.5 The assessment is further informed by surveys of sites that include a record of service vehicle trips as contained in the TRICS database. The TRICS database has been interrogated in respect of food retail and residential sites in order to derive suitably representative trip generation rates that can be applied to the proposed development.

\section*{Residential Servicing Trips}
10.4.6 Through interrogation of the TRICS database in respect of surveys of residential developments with similar locational and accessibility characteristics, four sites have been identified as suitably representative of the residential element of the proposed scheme. A breakdown of similar surveys that have been used as part of this assessment, and the associated servicing trip rates, are contained at Appendix 0.
10.4.7 The estimated number of servicing trips associated with the residential element of the proposed development, by vehicle type, is presented in Table 10.9.

Table 10.9: Proposed Residential Servicing Trips
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{Time} & \multicolumn{5}{|c|}{INBOUND} & \multicolumn{5}{|c|}{OUTBOUND} \\
\hline & Car & LGV & OGV1 & OGV2 & Total & Car & LGV & OGV1 & OGV2 & Total \\
\hline 07:00-08:00 & 0 & 1 & 0 & 0 & 1 & 0 & 1 & 0 & 0 & 1 \\
\hline 08:00-09:00 & 1 & 1 & 1 & 0 & 3 & 1 & 1 & 0 & 0 & 1 \\
\hline 09:00-10:00 & 1 & 1 & 1 & 1 & 3 & 1 & 2 & 1 & 0 & 3 \\
\hline 10:00-11:00 & 0 & 2 & 3 & 0 & 4 & 0 & 2 & 1 & 1 & 3 \\
\hline 11:00-12:00 & 1 & 3 & 1 & 0 & 4 & 0 & 2 & 3 & 0 & 5 \\
\hline 12:00-13:00 & 1 & 3 & 0 & 0 & 4 & 1 & 3 & 1 & 0 & 4 \\
\hline 13:00-14:00 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 & 2 \\
\hline 14:00-15:00 & 0 & 2 & 1 & 0 & 2 & 0 & 1 & 1 & 0 & 2 \\
\hline 15:00-16:00 & 0 & 2 & 1 & 0 & 2 & 0 & 1 & 0 & 0 & 1 \\
\hline 16:00-17:00 & 1 & 0 & 0 & 0 & 1 & 1 & 1 & 1 & 0 & 3 \\
\hline 17:00-18:00 & 2 & 1 & 0 & 0 & 3 & 2 & 2 & 0 & 0 & 3 \\
\hline 18:00-19:00 & 1 & 2 & 0 & 0 & 2 & 1 & 2 & 0 & 0 & 2 \\
\hline 19:00-20:00 & 0 & 2 & 0 & 0 & 2 & 0 & 2 & 0 & 0 & 2 \\
\hline 20:00-21:00 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
\hline Total & 6 & 17 & 6 & 1 & 29 & 6 & 17 & 6 & 1 & 29 \\
\hline
\end{tabular}
10.4.8 The servicing trip generation exercise identifies that the proposed 473 unit residential development could attract in the order of 29 service vehicle arrivals over the course of a typical day (07:0021:00). Of these, the majority will be Light Goods Vans (LGVs) or cars. The peak times of residential deliveries are shown to be between 10:00-13:00, which does not coincide with the wider network traffic peaks. On average, this would equate to four deliveries per hour.

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\section*{Retail Development}
10.4.9 As discussed throughout this report, the proposed Tesco Superstore is largely similar to the existing store at the Tesco, Osterley site that will be removed at that site, to the north of the A4. With specific reference to service trips, it is however noted that the proposed Tesco use, unlike the existing use at the Osterley site, will not include vehicles servicing online deliveries.
10.4.10 The assessment of Tesco service vehicle trip attraction is presented in Appendix \(\mathbf{O}\).
10.4.11 The servicing trips to the proposed Tesco are estimated based on surveys of the currently operating Tesco, Osterley store which has a comparable floor space. The Tesco Osterley surveys have carried out between the hours of 10:00 and 17:00 for a representative weekday. TRICS database surveys for representative sites within the sub-category 'Food Superstore' have been used to complement the Tesco Osterley surveys in order to derive an estimate of the quantum and temporal distribution of trips beyond the surveyed hours.
10.4.12 It has been established that the Tesco potential servicing hours would be between 07:00-22:00. The estimated weekday servicing trips to the proposed Tesco site is presented in Table 10.10.

Table 10.10: Proposed Tesco Servicing Trip
\begin{tabular}{|c|c|c|c|}
\hline Time & Arrivals & Departures & Total \\
\hline 07:00-08:00 & 0 & 1 & 1 \\
\hline 08:00-09:00 & 2 & 2 & 4 \\
\hline 09:00-10:00 & 2 & 3 & 5 \\
\hline 10:00-11:00 & 1 & 2 & 3 \\
\hline 11:00-12:00 & 1 & 2 & 3 \\
\hline 12:00-13:00 & 1 & 1 & 1 \\
\hline 13:00-14:00 & 0 & 0 & 0 \\
\hline 14:00-15:00 & 0 & 0 & 0 \\
\hline 15:00-16:00 & 0 & 1 & 1 \\
\hline 16:00-17:00 & 0 & 1 & 1 \\
\hline 17:00-18:00 & 1 & 1 & 2 \\
\hline 18:00-19:00 & 0 & 1 & 1 \\
\hline 19:00-20:00 & 1 & 1 & 2 \\
\hline 20:00-21:00 & 0 & 1 & 1 \\
\hline 21:00-22:00 & 0 & 0 & 0 \\
\hline Total & 8 & 17 & 25 \\
\hline
\end{tabular}
10.4.13 The estimated trip generation exercise indicates that the peak hours of servicing trips are between 08:00 and 12:00. The proposed Tesco could generate in the order of 25 two-way trips over the course of a typical weekday.
10.4.14 The combined peak service vehicle demand would take place between 10:00 and 13:00, during which approximately seven vehicles may attend the site.
10.4.15 The proposed Tesco service yard can accommodate access by 3 no. maximum legal articulated

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vehicles and additionally the proposed servicing layby at Syon Gate Way can accommodate a further 1-2 servicing vehicles. Given that a large proportion of servicing trips generated by the residential element of the scheme will be by cars and light goods vehicles with short dwell times ( \(<15\) minutes), it is considered that the proposed servicing facilities will suitably accommodate the estimated demand. Nonetheless, management measures set out in the DSP will be of significance in ensuring the efficient operation of the proposed scheme.
10.4.16 Of relevance to measures presented within the DSP, the above exercise demonstrates that there is tangible scope for managing deliveries and servicing movements at the proposed development, via a dedicated scheduling system, in order to transfer servicing trips out of peak traffic periods. Other measures such as consolidating and back-loading deliveries, that seek to reduce the number of service trips generated/attracted by/to the site, in addition to environmental benefits, can result in benefits such as more efficient use of the available servicing facility/capacity.

\subsection*{10.5 Net Development Traffic Impact}
10.5.1 The sections above summarise the anticipated trip generation figures for the proposed development. It is however recognised that the development is not coming forward in isolation, and this TA assesses the cumulative effects of both the Tesco and Homebase developments.
10.5.2 The cumulative impact of the Tesco. Osterley and Homebase, Brentford developments has therefore been assessed both at times of peak traffic demand and over the course of a typical day. What is evident is that over the course of a typical day, the combination of the removal of Homebase store traffic from the road network, the removal of the Tesco Petrol Filling Station from the road network and the reduction in customer car parking for Tesco would in combination act to reduce traffic flows. The assessment of the change in traffic flows at defined locations on the highway is presented in Insert \(\mathbf{1 0 . 2}\) below.
10.5.3 The reduction in traffic movements is particularly pronounced on Syon Lane to the north of the A4 Great West Road, which will experience an overall traffic reduction due to the relocation of the Tesco store to a site located south of the A4.

Insert 10.2: 2035, Predicted Changes to Traffic Flows as a result of Development

\begin{tabular}{|c|c|c|}
\hline Location & Average Weekday
(07:00-19:00) & Annual Average Daily Traficic Flow (AADI, (24-Hours;
Mon-Sun) \\
\hline 1 & -90 & -78 \\
\hline 2 & -90 & -78 \\
\hline 3 & -90 & -78 \\
\hline 4 & -270 & -234 \\
\hline 5 & -272 & -236 \\
\hline 6 & -406 & -374 \\
\hline 7 & -198 & -152 \\
\hline 8 & -3362 & -3924 \\
\hline 9 & -3362 & -3924 \\
\hline 10 & -412 & -439 \\
\hline 11 & -12 & -13 \\
\hline
\end{tabular}
10.5.4 The reductions in traffic flows are not as pronounced at peak times of traffic demand, times at which residential (commuter) traffic movements are at their peak. Peak hour traffic flows for the highway network, before and after the development are provided in Appendix R and Table 11.6 to \(\mathbf{1 1 . 8}\) of this document summarises these peak hour changes to traffic flow.

\subsection*{10.6 Pedestrian Comfort - A4 Underpass}
10.6.1 A pinch point for pedestrian movement locally is the existing underpass beneath the \(A 4\), at the Gillette corner junction. This underpass provides a connection between the development and Syon Lane station. This pedestrian comfort assessment has been prepared to establish if development-related pedestrian movements would result in a material impact on the operation of the underpass.
10.6.2 The assessment has been undertaken in accordance with TfL's 'Pedestrian Comfort Guidance for London' guidance document. The document is accompanied by a spreadsheet which allows anyone involved in the planning of London's streets (in this case consultants assessing the impact of development proposals) to calculate the comfort level for a given pedestrian route based on the width of the route and pedestrian flow.
10.6.3 A Pedestrian Comfort Level (PCL) has been calculated for the underpass for the existing and proposed number of pedestrians using this route (i.e. with and without the proposed development). For the purposes of the assessment the following assumptions have been made:
- The width of the underpass route remains the same between the existing and proposed scenario assessments;
- The width of the underpass is 1.8 metres, as measured on the access ramp; and
- Baseline pedestrian demand through the underpass is as surveyed in 2019 (reference Section 8.1).
10.6.4 The surveyed pedestrian flows for the underpass beneath the A4 at Gillette Corner have been utilised based on pedestrian demand in the busiest surveyed hour, and in the peak 15 minutes of demand within that peak hour. It is noted that the directional pedestrian flows through the underpass are tidal, as workers cross between Syon Lane station and the Sky campus (and adjacent employment destinations). The impact of additional pedestrian movement generated by the proposed development has then been added to both the peak hour and peak 15 minute assessments in order to determine the existing and future PCL.
10.6.5 This assessment considers potential pedestrian demand from both the Tesco, Osterley and Homebase Syon For the purposes of this assessment it has been assumed that:
- \(100 \%\) of pedestrian trips, where a journey on foot is the main mode of travel, undertaken by residents of the Homebase site would in future utilise the underpass;
- \(10 \%\) of pedestrian trips, where a journey on foot is the main mode of travel, undertaken by residents of the Tesco, Osterley site would in future utilise the underpass;
- The majority of rail journeys undertaken by residents of the Tesco, Osterley development connect to the station via the underpass; and
- Some bus passengers for both the Tesco, Osterley development site and the Homebase development site connect to services via the underpass.

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10.6.6 This assessment considers peak pedestrian demand in the Weekday AM and Weekday PM peak periods of demand. The full PCL assessment is included at Appendix K.
10.6.7 In summary the existing / surveyed pedestrian underpass route at Gillette Corner scores a PCL ranging between \(B\) - and \(A\) - both for the peak hour and for the peak 15 minute assessments.
10.6.8 The PCL score range lowers to between C- and B+ for the proposed peak hour and peak 15 minute assessments once development related trips are included.
10.6.9 The TfL guidance notes that with regard to the PCL at peak hour flow during the proposed scenario that the underpass "should be comfortable for its intended use at most times. However, you may need to reassess the site in future." In regard to the PCL at times of maximum activity the impact assessment notes that "this level of comfort is appropriate for periods of additional stress in Office and Retail and Transport Interchange sites."
10.6.10 As such it is concluded that the A4 underpass would remain fit for purpose in the proposed development scenario.

\subsection*{10.7 Summary}
10.7.1 A comprehensive trip generation exercise has been undertaken, utilising data from the existing land uses wherever possible. This exercise has carefully and conservatively considered the impacts of the proposed development. To conduct a robust assessment, limited account has been made of the modal shift at the new Tesco store, despite the more sustainable location, increased local population from the dwellings above and Healthy Streets approach taken. It is likely that a greater modal shift will be achieved; the Travel Plans accompanying this document set out measures to achieve this.
10.7.2 The trip generation concludes that there will be an increase in trips at the Homebase site as a consequence of the development. However when the impact of developing both the Homebase Brentford and associated Tesco Osterley site are considered there will be an overall reduction in vehicle trips, as shown in Insert 10.2..

\section*{11 Modelling}

\subsection*{11.1 Preface}
11.1.1 A traffic model has been developed to assess the impact of the combined development projects at Homebase., Syon Lane and Tesco, Osterley. While traffic flows will reduce significantly to and from Tesco Osterley site as a result of the development, some of this traffic will redistribute to the Homebase site, where the replacement Tesco store will be developed.
11.1.2 The scope of the traffic modelling exercise has been agreed with TfL and the LBH in advance of this planning submission. It has been agreed that the highway network illustrated in Insert 11.1 will be modelled using the microsimulation package VISSIM and that the VISSIM model will consider the operation of the local highway network in the following periods:
- Weekday AM Peak 07:45-08:45
- Weekday PM Peak: 17:00-18:00
- Saturday Peak: 13:00-14:00
11.1.3 The model has sought to consider traffic conditions in 2035, the year during which both Homebase, Brentford and Tesco, Osterley are anticipated to be occupied and operational.
11.1.4 The network of traffic signals modelled using the VISSIM software would be operated by SCOOT (Split Cycle Offset Optimisation Technique) software. SCOOT is a real-time adaptive traffic control system that adjusts junction cycle times, green times and traffic signal off-sets, depending on traffic demand, to make the traffic signal network operate as efficiently as possible. The Transport Research Laboratory (TRL) states that SCOOT can offer typical delay reductions of up to \(15 \%\). The VISSIM model results presented in this report are based on the requirements of TfL's Model Audit Process (MAP). MAP requires the proposed traffic signal network to be modelled using a surveyed traffic profile, which means that traffic demand fluctuates within the VISSIM model over the course of the modelled peak hours in a way that seeks to replicate what happens on the ground. It is important to recognise that the VISSIM software does not, however, adjust junction cycle times, green times or traffic signal off-sets to cater for these fluctuations and as such the model does not fully replicate the way the traffic signals would operate on the ground. For this reason, the model results presented in this report can be considered a worse case in terms of driver delays.

\subsection*{11.2 Study Area}
11.2.1 The VISSIM model agreed by TfL covers an area between Osterley and Brentford, and its boundaries are generally the Osterley Tesco Extra Superstore to the north, Spur Road to the south, Wood Lane to the west and Harlequin Avenue to the east. The VISSIM model study area includes the following junctions:
- Junction 02-013 - A4 Great West Road - B454 Syon Lane
- Junction 02-287 - A4 Great West Road - B454 Syon Lane Exit Westbound
- Junction 02-286 - A4 Great West Road - Harlequin Avenue
- Junction 02-287 - A4 Great West Road - Harlequin Avenue Westbound Exit Peds
- Junction 02-014 - A4 Great West Road - Wood Lane.

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This junction is not part of the model but has been included at the request of TfL in order to provide the correct arrival pattern of vehicles on the eastbound approach of junction 02/013.
- Junction 01-156 - Syon Lane by Northumberland Avenue Southbound
- Junction 01-157 - Syon Lane by Northumberland Avenue Northbound
11.2.2 The model extent can be seen in Insert 11.1 within the red line boundary.

Insert 11.1: VISSIM Model study Area


\subsection*{11.3 Transport for London Model Audit Process}
11.3.1 The VISSIM Model has been prepared with reference to TfL's Model Audit Process (MAP). The MAP process requires base traffic models (existing traffic conditions) to be prepared and submitted to TfL, to ensure that the basis of the model validates against existing traffic conditions.
11.3.2 Further to the agreement of base traffic conditions within the traffic model, the applicant is required to agree on the methodology for the assessment of traffic in the proposed design year, in this case, 2035.
11.3.3 TfL has suggested that background traffic flows in the design year 2035 would be higher than existing and have asked the applicant to make reference to TfL's London Highway Assignment model (LoHAM). Whilst evidence from DfT counts suggest traffic levels have fallen, for robustness TfL's requested approach has been adopted.
11.3.4 TfL also requested that residential trip distribution is assessed with reference to the outputs of LoHAM.

\subsection*{11.4 Background Traffic Growth}
11.4.1 Inserts 4.6 and 4.7 identify that traffic volumes on the A4 Great West Road have fluctuated year on year since 2000, however, the DfT data suggests that no material traffic growth has been experienced on the A4 in the last 20-years.
11.4.2 Notwithstanding the above, it is recognised that the development sites are now located in an Opportunity Area, where higher density development is encouraged. Traffic growth estimates have therefore been applied to 2019 traffic survey data, based on LoHAM.

\subsection*{11.5 LoHAM Strategic Model}
11.5.1 LoHAM (London Highway Assignment Model) is a strategic model representing routeing and congestion of motorised highway trips using London's highway network. LoHAM is described as:
"LOHAM takes information on the number of trips and their expected origins and destinations from LTS and calculates their routes through the highway network based on journey times and distance. It is used to provide an overall impression of the impact of major highway schemes or large residential or employment developments. The model splits highway users into different vehicle types including car, taxi, light goods vehicles and other goods vehicles. There are also representations of buses and cycles included to make sure that the road space required by these users is taken into account".
11.5.2 LoHAM considers traffic growth from 2012 to 2031, and this data forms the basis of traffic growth estimates for both the A4 Great West Road and Syon Lane.
11.5.3 In summary, the methodology adopted for the application of background traffic growth is as follows.
- LoHAM Traffic growth rates have been applied to the 2019 surveyed traffic flows on the highway network. The growth rates assume a design year of 2031, which is the future year of LoHAM. TfL has agreed that no additional background traffic growth should be applied from 2031 to 3035.
- It is assumed that all 'committed development' traffic, including school staff trips, are catered for within the LoHAM traffic growth rates. The exception is school Park and Stride trips, which have been applied to base traffic flows in addition to the LoHAM traffic growth rates.
- The LoHAM model splits traffic growth rates by vehicle type. Within the VISSIM model vehicle types are not split in the same way and it is therefore proposed that the LoHAM growth rates for cars, taxis and LGVs are combined to create a single growth rate that is suitable for application within the VISSIM model's 'cars/LGV' classification. A separate LoHAM growth rate has been applied to Heavy Goods Vehicles (HGVs).
- School 'Park and Stride' trips that are not currently on the highway network have been added to the local road network and assigned to routes based on the traffic distribution provided in school related Transport Assessments.
- The applied Park and Stride traffic flows assume that future year Travel Plan targets are achieved, with these targets taken from the associated school planning application documentation. For the Nishkam School, this means that only a small increase in Park and Stride trips is anticipated over and above the existing Park and Stride demand at Tesco, Osterley.
- The 'future base' traffic model assumes all Park and Stride trips are undertaken to the existing Tesco customer car park. This reflects existing conditions in relation to the Nishkam School.
- It is understood that Tesco would not enter into an agreement with Nishkam School or the Bolder Academy to permit 'Park and Stride' trips to utilise their car park when they relocate to the Homebase site. For the 'with development' traffic models all Park and Stride trips have therefore been distributed to the Garden centre car park on Windmill Lane and not to the proposed Tesco store car park. It should be noted that this is not the most efficient distribution of traffic for the operation of the Gillette Corner traffic signal junction because it requires traffic from Syon Lane (South) to route through the junction. If it was in the future assumed that some Park and Stride traffic did route to the new Tesco store car park, then this should improve network performance.
11.5.4 What is evident from the data is that overall, at the A4/Syon Lane (Gillette Corner) junction the LoHAM traffic model predicts an overall increase in traffic flow from 2019 to 2031. Within this overall traffic growth rate, the LoHAM model's rates vary by vehicle type and by traffic movement. The agreed background traffic growth rates applied to the 2019 surveys traffic flows for the junction are as detailed in Tables 11.1, 11.2 and 11.3.

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Table 11.1: Carl Taxi and LGV, Combined Traffic Growth (2019-2031) - Weekday AM Peak
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{4}{|c|}{Predicted Flows, 2019} & \multicolumn{4}{|c|}{Predicted Flows, 2031} & \multirow[t]{2}{*}{Traffic Growth (cars, taxis, LGV)} \\
\hline From & To & Car & Taxi & LGV & Total & Car & Taxi & LGV & Total & \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 89 & 0 & 4 & 93 & 96 & 0 & 7 & 104 & 11.1\% \\
\hline & A4 (East) & 1044 & 18 & 150 & 1211 & 1000 & 6 & 207 & 1213 & 0.2\% \\
\hline & Syon Lane (South) & 60 & 1 & 11 & 71 & 92 & 1 & 19 & 112 & 57.0\% \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 451 & 2 & 91 & 544 & 493 & 2 & 104 & 599 & 10.0\% \\
\hline & Syon Lane (South) & 188 & 1 & 29 & 218 & 229 & 1 & 46 & 276 & 26.5\% \\
\hline & A4 (West) & 34 & 0 & 3 & 37 & 46 & 0 & 6 & 52 & 42.6\% \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 184 & 0 & 22 & 206 & 129 & 0 & 14 & 143 & -30.6\% \\
\hline & A4 (West) & 1375 & 7 & 123 & 1505 & 1465 & 7 & 187 & 1658 & 10.2\% \\
\hline & Syon Lane (North) & 183 & 3 & 27 & 213 & 221 & 3 & 43 & 267 & 25.2\% \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 46 & 1 & 4 & 51 & 44 & 1 & 4 & 49 & -3.9\% \\
\hline & Syon Lane (North) & 216 & 0 & 20 & 236 & 249 & 0 & 54 & 304 & 28.8\% \\
\hline & A4 (East) & 325 & 4 & 24 & 353 & 255 & 3 & 31 & 288 & -18.3\% \\
\hline \multicolumn{2}{|l|}{Totals} & 4194 & 36 & 507 & 4738 & 4319 & 24 & 721 & 5064 & 6.9\% \\
\hline
\end{tabular}

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Table 11.2: Carl Taxi and LGV, Combined Traffic Growth (2019-2031) - Weekday PM Peak
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{4}{|c|}{Predicted Flows, 2019} & \multicolumn{4}{|c|}{Predicted Flows, 2031} & \multirow[t]{2}{*}{Traffic Growth (cars, taxis, LGV)} \\
\hline From & To & Car & Taxi & LGV & Total & Car & Taxi & LGV & Total & \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 72 & 0 & 1 & 74 & 85 & 0 & 5 & 90 & 22.1\% \\
\hline & A4 (East) & 945 & 34 & 80 & 1059 & 921 & 30 & 112 & 1063 & 0.3\% \\
\hline & Syon Lane (South) & 90 & 3 & 12 & 105 & 119 & 3 & 20 & 142 & 35.3\% \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 436 & 6 & 60 & 502 & 462 & 6 & 79 & 546 & 8.9\% \\
\hline & Syon Lane (South) & 238 & 0 & 16 & 255 & 222 & 0 & 26 & 247 & -2.8\% \\
\hline & A4 (West) & 49 & 0 & 3 & 53 & 42 & 0 & 5 & 48 & -8.5\% \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 188 & 1 & 22 & 212 & 145 & 1 & 23 & 170 & -19.9\% \\
\hline & A4 (West) & 1568 & 10 & 197 & 1775 & 1481 & 10 & 272 & 1763 & -0.6\% \\
\hline & Syon Lane (North) & 159 & 1 & 44 & 204 & 140 & 1 & 40 & 180 & -11.7\% \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 107 & 0 & 13 & 120 & 123 & 0 & 18 & 141 & 17.9\% \\
\hline & Syon Lane (North) & 250 & 1 & 35 & 286 & 268 & 1 & 64 & 333 & 16.7\% \\
\hline & A4 (East) & 216 & 3 & 21 & 240 & 197 & 3 & 30 & 230 & -4.1\% \\
\hline \multicolumn{2}{|l|}{Totals} & 4319 & 60 & 504 & 4882 & 4204 & 55 & 695 & 4954 & 1.5\% \\
\hline
\end{tabular}
11.5.5 Traffic growth rates have been applied to surveyed traffic flow, by turning movement, as identified by the TfL LoHAM data.
11.5.6 The VISSIM model considers traffic conditions for a Weekday AM Peak traffic period, a Weekday PM Peak traffic period and a Saturday Peak traffic period. The LoHAM model does not provide traffic growth data for a Saturday. It has been agreed that traffic growth for a Saturday should be an average of the growth rates from the Weekday AM and PM Peak LoHAM data. This methodology would result in the following traffic growth rates for cars, taxis and LGVs.

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Table 11.3: Carl Taxi and LGV, Combined Traffic Growth (2019-2031) - Saturday Peak
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{4}{|c|}{Predicted Flows, 2019} & \multicolumn{4}{|c|}{Predicted Flows, 2031} & \multirow[t]{2}{*}{Traffic Growth (cars, taxis, LGV)} \\
\hline From & To & Car & Taxi & LGV & Total & Car & Taxi & LGV & Total & \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 81 & 0 & 3 & 83 & 90 & 0 & 6 & 97 & 15.9\% \\
\hline & A4 (East) & 994 & 26 & 115 & 1135 & 961 & 18 & 159 & 1138 & 0.2\% \\
\hline & Syon Lane (South) & 75 & 2 & 11 & 88 & 106 & 2 & 19 & 127 & 44.1\% \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 443 & 4 & 76 & 523 & 477 & 4 & 91 & 572 & 9.5\% \\
\hline & Syon Lane (South) & 213 & 0 & 23 & 236 & 226 & 0 & 36 & 262 & 10.7\% \\
\hline & A4 (West) & 41 & 0 & 3 & 45 & 44 & 0 & 6 & 50 & 12.6\% \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 186 & 1 & 22 & 209 & 137 & 1 & 19 & 156 & -25.2\% \\
\hline & A4 (West) & 1472 & 8 & 160 & 1640 & 1473 & 8 & 229 & 1711 & 4.3\% \\
\hline & Syon Lane (North) & 171 & 2 & 36 & 208 & 180 & 2 & 41 & 223 & 7.2\% \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 77 & 0 & 8 & 85 & 83 & 0 & 11 & 95 & 11.4\% \\
\hline & Syon Lane (North) & 233 & 1 & 27 & 261 & 258 & 1 & 59 & 319 & 22.2\% \\
\hline & A4 (East) & 271 & 4 & 22 & 296 & 226 & 3 & 31 & 259 & -12.6\% \\
\hline \multicolumn{2}{|l|}{Totals} & 4256 & 48 & 506 & 4810 & 4261 & 40 & 708 & 5009 & 4.1\% \\
\hline
\end{tabular}
11.5.7 For HGV traffic, LoHAM suggests the following traffic growth rates should be applied
- Weekday AM Peak, 2019-2031: +12.7\% traffic growth
- Weekday PM Peak, 2019-2031: +18.6\% traffic growth
- Saturday Peak, 2019-2031: +14.6\% traffic growth
11.5.8 No 'Park and Stride' traffic associated with local schools has been applied to the Saturday data.
11.5.9 The traffic growth assessment is presented in full in Appendix Q.

\subsection*{11.6 Redistribution of Tesco Trips}
11.6.1 It is proposed that the existing Tesco Osterley store will be relocated onto the Homebase site, such that operation of the superstore will not cease at any point throughout the proposed redevelopment of the sites. In order to establish the traffic impact of the relocation of the Tesco use, surveyed traffic movements for the existing Tesco Osterley store have been redistributed from the existing Tesco site to its proposed location at the Homebase site.
11.6.2 The origin-destination data for the existing peak hour Tesco trips, as derived from the ANPR surveys of the existing Tesco use, have been used to identify an estimated directional distribution of arrival and departure trips on the A4 and on Syon Lane.
11.6.3 This surveyed traffic distribution has been used to reassign the existing Tesco trips to the Homebase site.

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\subsection*{11.7 Distribution of Residential Trips}
11.7.1 The LoHAM model has been used to establish a residential traffic distribution for a defined residential zone.
11.7.2 An extract of the TfL model (LoHAM) zonal plan is provided in Insert 11.2, with the two development sites (Tesco and Homebase) defined by orange shading. The zones in which the development sites are located predominately contain commercial development and it is understood that LoHAM cannot differentiate between commercial and residential development. We cannot, therefore, obtain a residential only traffic distribution from LoHAM for the zones in which the development sites are located. The closest and most relevant zone (no. 60124) straddles the A4 and is highlighted in Insert 2.1 below.

Insert 11.2: Homebase and Tesco Development Sites, and LoHAM Zone 60124

11.7.3 The LoHAM traffic distribution output for zone 60124 has been adopted within the VISSIM model to distribute residential car trips. Table \(\mathbf{1 1 . 4}\) presents the associated traffic distribution data.

Table 11.4: Residential Development Trip Rate Analysis (LoHAM Model, Zone 60124)
\begin{tabular}{|l|c|c|c|c|c|c|}
\hline Location & \multicolumn{2}{|c|}{ Weekday AM Peak } & \multicolumn{2}{|c|}{ Weekday PM Peak } & \multicolumn{2}{|c|}{ Saturday Peak* } \\
\hline A4 East & 104 & \(36.8 \%\) & 152 & \(30.0 \%\) & 256 & \(32.4 \%\) \\
\hline A4 West & 60 & \(21.4 \%\) & 181 & \(35.7 \%\) & 242 & \(30.6 \%\) \\
\hline Syon Lane (N) & 21 & \(7.5 \%\) & 57 & \(11.3 \%\) & 79 & \(9.9 \%\) \\
\hline Syon Lane (S) & 97 & \(34.3 \%\) & 116 & \(23.0 \%\) & 214 & \(27.0 \%\) \\
\hline Total & \(\mathbf{2 8 3}\) & \(\mathbf{1 0 0 . 0 \%}\) & \(\mathbf{5 0 7}\) & \(\mathbf{1 0 0 . 0} \%\) & \(\mathbf{7 9 0}\) & \(\mathbf{1 0 0 . 0} \%\) \\
\hline
\end{tabular}
*LoHAM does not provide distribution data for a Saturday - the VMAP Stage 5 model for a Saturday, therefore, uses an average traffic distribution, based on the Weekday AM and PM peak hour periods.

\subsection*{11.8 Distribution of Homebase Trips - Removed from Network}
11.8.1 The origin-destination data for the existing peak hour Homebase trips, as derived from the ANPR surveys of the existing use at the proposed development site, have been used to identify the directional distribution of arrival and departure trips.
11.8.2 The existing Homebase trips have been removed from the modelled junctions for the 'full development' modelling scenario in accordance with the above-mentioned distribution/assignment methodology.

\subsection*{11.9 Distribution of Existing PFS Trips - Removed from Network}
11.9.1 The existing Tesco PFS would be removed a as result of the development projects and would not be replaced on the Homebase site.
11.9.2 It is recognised that some existing Tesco 'PFS' car trips would remain on the local highway network after the existing Tesco PFS has been removed, to use other local PFS facilities. However, for other Tesco customers, the combined offer of a foodstore and a PFS is the attraction of the current Tesco site. This is evidenced by data stored in the TRICS database and in other research papers.
11.9.3 Based on the 2019 research conducted in association with ASDA and Sainsbury's operated petrol stations traffic movements in the vicinity of Tesco, Osterley are likely to reduce as a result of the removal of the Tesco petrol station. It is anticipated that:
- The diversion behaviour likely to result from the closure of the existing Tesco PFS would mean \(10 \%\) to \(14 \%\) of linked PFS and foodstore linked trips ( \(12 \%\) average) would divert to an alternative foodstore location, and would no longer route through the local highway network; and
- In the order of \(\mathbf{1 9 \%}\) of the customers who undertake a fuel only shop at the existing Tesco PFS would in future route to an alternative PFS site, located greater than 10 minutes away from the existing store, and would therefore no longer route through the local highway network.
11.9.4 Based on the proportions identified above it is anticipated that the total traffic diversion from the local highway resulting from the closure of the Tesco PFS would be as detailed in Table 11.5 below.

Table 11.5: PFS Traffic Diversion from Local Highway
\begin{tabular}{l|c|c|c|}
\hline \multirow{2}{*}{ Time Period } & \multicolumn{2}{|c|}{ Total Traffic Diversion from Local Highway } \\
\cline { 2 - 4 } & Arrivals & Departures & Total Traffic \\
\hline Weekday 07:45-08:45* & 16 & 15 & 31 \\
\hline Weekday 17:00-18:00 & 23 & 22 & 46 \\
\hline Saturday 13:00-14:00 \\
*Weekday AM Peak hour considered for the purpose of traffic modelling & 28 & 54 \\
\hline
\end{tabular}

\subsection*{11.10 Resultant Traffic Flows - 2035}
11.10.1 The traffic flows derived for use in the VISSIM models are provided in full in Appendix \(\mathbf{R}\) of this document.

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11.10.2 Appendix R presents the derivation of 2035 'future base' traffic flows. These are baseline flows, including traffic growth to 2035 based on the LoHAM model growth rates. This scenario assumes that Tesco, Homebase and the PFS all operate as existing.
11.10.3 Appendix \(\mathbf{R}\) also presents the derivation of future 'operational traffic flows, that assumes both development sites are implemented and occupied.
11.10.4 Tables \(\mathbf{1 1 . 6}\) to \(\mathbf{1 1 . 8}\) sets out the modelled traffic flows for the morning and evening network peaks respectively. From the peak flow data it is possible to derive the net change in traffic flows, both between the 2019 and 2035 Baselines, and also between 2035 Baseline and 2035 with Development scenarios. It is apparent that there is an overall reduction in traffic at the Gillette Corner junction as a consequence of the scheme. Syon Lane North experiences the greatest reduction in traffic, with smaller changes in flow on other approaches.

Table 11.6: Net Change In Traffic Flows - Weekday Morning Peak Hour
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Site \\
(Ref: Insert 10.2)
\end{tabular} & Description & Baseline Flows & \begin{tabular}{c} 
With Development \\
Flows
\end{tabular} & Change (No.) & Change (\%) \\
\hline 5 & Syon Lane South & 1621 & 1652 & 31 & \(1.9 \%\) \\
\hline 6 & A4 East & 4342 & 4386 & 44 & \(1.0 \%\) \\
\hline 7 & A4 West & 3405 & 3427 & 22 & \(0.6 \%\) \\
\hline 8 & Syon Lane North & 1953 & 1844 & -109 & \(-5.6 \%\) \\
\hline 9 & Syon Lane North & 1977 & 1856 & -121 & \(-6.1 \%\) \\
\hline 10 & Syon Lane North & 1648 & 1730 & 81 & \(4.9 \%\) \\
\hline 11 & Northumberland Av & 270 & 270 & 0 & \(0.0 \%\) \\
\hline
\end{tabular}

Table 11.7: Net Change In Traffic Flows - Weekday Evening Peak Hour
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Site \\
(Ref: Insert 10.2)
\end{tabular} & Description & Baseline Flows & \begin{tabular}{c} 
With Development \\
Flows
\end{tabular} & Change (No.) & Change (\%) \\
\hline 5 & Syon Lane South & 1360 & 1375 & 15 & \(1.1 \%\) \\
\hline 6 & A4 East & 4010 & 4022 & 11 & \(0.3 \%\) \\
\hline 7 & A4 West & 3446 & 3470 & 24 & \(0.7 \%\) \\
\hline 8 & Syon Lane North & 1693 & 1489 & -204 & \(-12.1 \%\) \\
\hline 9 & Syon Lane North & 1629 & 1411 & -218 & \(-13.4 \%\) \\
\hline 10 & Syon Lane North & 1309 & 1311 & 3 & \(0.2 \%\) \\
\hline 11 & Northumberland Av & 250 & 249 & -1 & \(-0.4 \%\) \\
\hline
\end{tabular}

Table 11.8: Net Change In Traffic Flows - Weekday Saturday Peak Hour
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Site \\
(Ref: Insert 10.2)
\end{tabular} & Description & Baseline Flows & \begin{tabular}{c} 
With Development \\
Flows
\end{tabular} & Change (No.) & Change (\%) \\
\hline 5 & Syon Lane South & 1701 & 1658 & -42 & \(-2.5 \%\) \\
\hline 6 & A4 East & 3355 & 3343 & -12 & \(-0.3 \%\) \\
\hline 7 & A4 West & 2543 & 2563 & 21 & \(0.8 \%\) \\
\hline 8 & Syon Lane North & 1757 & 1390 & -367 & \(-20.9 \%\) \\
\hline 9 & Syon Lane North & 1742 & 1346 & -396 & \(-22.7 \%\) \\
\hline 10 & Syon Lane North & 1253 & 1168 & -85 & \(-6.8 \%\) \\
\hline 11 & Northumberland Av & 157 & 155 & -2 & \(-1.3 \%\) \\
\hline
\end{tabular}

\subsection*{11.11 Proposed Highway Layout}
11.11.1 The 'operational' traffic model has been based on the proposed future layout for the Gillette Corner junction, and the provision of a new traffic signal controlled site access to the Homebase site.
11.11.2 The proposed junction layout has been derived from a preliminary 'sifting' of design options, to ensure that the options tested through the MAP process are likely to accommodate traffic demands. These options and chosen final layout have been developed through extensive consultation with TfL and LBH.
11.11.3 The proposed Gillette Corner and Homebase site access arrangement is illustrated in Insert 11.3 and in Appendix S. Within this document, this highway layout is referred to as Design Option 1.
11.11.4 In summary, the highway works illustrated in Insert 11.3 include:
- A new traffic signal control junction for the Homebase site - the site access being located approximately 7 metres (centre to centre to the south of the existing Homebase access).
- The addition of a second right turning lane on the A4 for traffic turning into Syon Lane (towards the new Homebase site access) from the west.
- Proposal to remove the existing bus stop layby on the A4 Great West Road (Westbound) to allow the pedestrian footway to be widened and the cycle lane extended in the vicinity of the Homebase site frontage.
- The bus stop would be relocated to the east to better facilitate the operation of the H91 and E1 bus services.

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Insert 11.3: Gillette Corner and Homebase Access Highway Proposal (Design Option 1)

11.11.5 The traffic model assumes that the new site access junction to Homebase would be linked to the operation of the Gillette Corner junction. It is also assumed that the Gillette Corner junction links to the operation of the A4 Great West Road/ Harlequin Avenue junction, located to the east.
11.11.6 It is worthy of note that two alternative layout scenarios for the Gillette Corner junction are also being considered by TfL and LBH. The first of these alternative design solutions (Design Option 2) would introduce surface level pedestrian crossings on the A4 Great West Road in place of the existing pedestrian underpass. Other than the underpass becoming a 'staggered' surface crossing the layout of the Gillette Corner for Design Option 2 would replicate the arrangement detailed in Insert 11.3 above.
11.11.7 The second alternative would replace the underpass with surface level crossings and create new 'green man' controlled crossings across Syon Lane, both north and south of the A4, within the confines of the Gillette Corner junction.
11.11.8 Design Options 2 and 3 are illustrated in Appendix \(Z\) of this document, and a comparison between the journey times through the study area is provided in Appendix A1.
11.11.9 While these alternative solutions would have some detriment to journey times through the highway network compared to the proposed highway layout, TfL and LBH are considering these alternative options based on their benefits to pedestrian and cycle movement.

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\subsection*{11.12 VISSIM Model Assessments, Journey Time Comparison (all vehicles)}
11.12.1 The VISSIM results are presented in terms of travel journey time for specific directions of travel for vehicles entering and exiting the study area. Insert 11.4 provides a plan which indicates the 12 travel time section routes.

Insert 11.4: VISSIM Travel Time Section Plan

11.12.2 The results of the VISSIM model, for 2035, are presented in Tables 11.9, 11.10 and 11.11. These tables compare journey times through the network for the 'future base' and the 'operational' traffic conditions. The tables highlight where journey time savings are likely as a result of the development schemes.
11.12.3 For clarity, the "future base" and "Design Option 1" scenarios are described below:
- Future Base - Existing Highway Layout + Traffic Growth to 2035 (LoHAM model growth rates) Tesco, Homebase and the PFS all operate as existing.
- Proposed Design Option 1 - Improved highway layout as per layout + Traffic Growth to 2035 (LoHAM model growth rates) + development proposals fully operational.

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Table 11.9: 2035 Weekday AM Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Travel \\
Time \\
section
\end{tabular} & Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM \\
(seconds)
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 1 \\
VISSIM \\
(seconds)
\end{tabular} & \begin{tabular}{c} 
Difference \\
(seconds)
\end{tabular} & Difference (\%)
\end{tabular}
11.12.4 The VISSIM journey time comparison results during the modelled weekday AM Peak hour demonstrates that five of the 12 movements report journey time reductions when comparing the journey time results following the reassignment of vehicular traffic associated with the development proposals. Of these tow of the reductions are substantial, being in excess of 100 seconds.
11.12.5 The greatest reduction in journey time recorded is the movement from D to I , representing the vehicle movements from A4 (West) to Syon Lane (South). The right turn link from D benefits from the additional right turning lane on the proposed option, allowing for a 47\% reduction in journey time when compared to the Future Base scenario. This equates to a reduction in journey time of over two minutes per vehicle.
11.12.6 Significant Journey time reductions (>20\%) are also demonstrated in relation to the A to F and F to A vehicle turning movements, representing vehicle movements from Syon Lane (North) to A4 (East) and vice versa.
11.12.7 The reassignment of vehicle trips associated with the relocation of the Tesco store would result in a reduction in movements from \(D\) to \(A\) and \(F\) to \(A\), with trips reassigning to result in increased movements from \(D\) to \(I\) and \(F\) to \(I\).
11.12.8 The results of Table \(\mathbf{1 1 . 9}\) indicate a modest increase ( \(<10 \%\) ) in journey times across several links, with an increase in journey time of up to \(18 \%\) recorded from \(F\) to D (A4 East to A4 West), representing a journey time increase of 10 seconds.
11.12.9 An 84 second increase in journey time is recorded from F to I as a result of a greater proportion of left turning vehicles from A4 East towards Syon Lane South.
11.12.10 In summary, the weekday morning VISSIM results indicate that some links experience substantial journey time reductions, with the increase in journey time on other links comparatively modest. The change in journey times has arisen from the reassignment of traffic through the junction, implementation of improved highway capacity on link D for right turning traffic, and the adjustment

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of traffic signal timings in order to optimise the operation of the junction in minimising delay to traffic on all approaches and turning movements.

Table 11.10: 2035 Weekday PM Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|l|l|l|l|}
\hline \begin{tabular}{l} 
Travel \\
Time \\
section
\end{tabular} & Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 1 \\
VISSIM
\end{tabular} & Difference (s)
\end{tabular} (ifference (\%)
11.12.11 The VISSIM journey time comparison results during the modelled weekday PM Peak hour also demonstrate that five of the 12 movements report journey time reductions when compared to the future base scenario. Link A to D (Syon Lane North to A4 West) demonstrates a substantial reduction in journey time of 125 seconds (52\%) when compared to the future base scenario.
11.12.12 Of the seven links which demonstrate an increase in journey times, only movement F to I records an increase of more than \(27 \%\). Link movement \(F\) to I records a journey time increase of 43 seconds (47\%) associated with the increase in vehicular traffic undertaking this turning movement.
11.12.13 In summary, the weekday evening VISSIM results indicate that some links will experience a decrease in journey times whilst there will be an increase in journey time on some other links which are comparatively modest.

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Table 11.11: 2035 Saturday Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|l|c|c|c|}
\hline \begin{tabular}{l} 
Travel \\
Time \\
section
\end{tabular} & Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 1 \\
VISSIM
\end{tabular} & Difference (s)
\end{tabular} (ifference (\%)
11.12.14 The VISSIM journey time comparison results during the modelled Saturday Peak hour demonstrates that seven of the 12 movements report journey time reductions when compared to the future base scenario. Link A to D (Syon Lane North to A4 West) and demonstrates a substantial reduction in journey time of 125 seconds (45\%) when compared to the future base scenario.
11.12.15 The link movements which demonstrate an increase in journey times, relate to the increased number of Tesco related vehicle movements to and from Syon Lane South. Link movement F to I records a journey time increase of 51 seconds when compared to the future base scenario.
11.12.16 In summary, the VISSIM results for the three time periods (weekday AM, PM and Saturday peak hours), indicate that the reassignment of vehicle trips through the local highway network associated with the development proposals would result in some links movements increasing in journey times, with journey times on other links reducing.
11.12.17 Recognising that a SCOOT system would operate the traffic signal control network in a way that continually optimises the traffic signal control network, the VISSIM results provided in Tables 11.9 to 11.11 should be considered as a worst case scenario. It can be expected that neither the journey time reductions or the journey time additions would be as extreme as identified in the above tables. Overall, it is concluded that the traffic signal network would not be materially impacted on by the development proposals.
11.12.18 It should be noted that discussions with TfL and LBH are ongoing in seeking to optimise the traffic signal timings within the VISSIM model highway network to minimise delay to traffic on all approaches and turning movements.

\subsection*{11.13 VISSIM Model Assessments - Journey Time Comparison - Buses}
11.13.1 Following extensive discussions and liaison with TfL and LBH, it has been agreed that taking a Healthy Streets approach means that minimising delay to bus journey times, would be prioritised to ensure consistent bus journey times can be achieved. This in turn facilitates and encourages sustainable travel choices within the locality of the sites.

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11.13.2 The VISSIM models have been considered with respect to bus service operations in the area, as the highway works will not be permitted to result in a significant delay to bus operations. Tables 11.12 to 11.14 below summarise future bus journey times through the network for service numbers E1 and H91.
11.13.3 The H91 bus service routes through the Gillette Corner junction from the A4 East to A4 West.
11.13.4 The E1 bus service is indicated in Appendix J and would connect the Tesco Osterley site to Ealing Broadway station via the A4 (East). The proposed removal and relocation of the bus layby on A4 East as indicated in the highway layout plan (refer to Insert A of Insert 11.3), would serve to reduce delay to the E1 bus service in turning right to Syon Lane North. The on-carriageway bus stop would also reduce delay to H 91 bus services in the westbound direction.
11.13.5 The results indicate that for the majority of bus movements through the study area, buses would receive a journey time saving as a result of the development proposals and highway infrastructure mitigation measures

Table 11.12: 2035 Weekday AM Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Travel \\
\begin{tabular}{l} 
Time \\
section
\end{tabular}
\end{tabular} & Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 0+ \\
VISSIM
\end{tabular} & Difference (s) & Difference (\%) \\
\hline \multirow{3}{*}{ H91 } & Wood Lane to West Cross Way & 415 & 394 & -21 & \(-5 \%\) \\
\cline { 2 - 6 } & West Cross Way to Wood Lane & 209 & 227 & 19 & \(9 \%\) \\
\hline \multirow{2}{*}{ E1 } & West Cross Way to Syon Lane & 401 & 282 & -119 & \(-30 \%\) \\
\cline { 2 - 6 } & Syon Lane to West Cross Way & 392 & 246 & -146 & \(-37 \%\) \\
\hline
\end{tabular}

Table 11.13: 2035 Weekday PM Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Travel \\
\begin{tabular}{l} 
Time \\
section
\end{tabular}
\end{tabular} Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 0+ \\
VISSIM
\end{tabular} & Difference (s)
\end{tabular} (ifference (\%)

Table 11.14: 2035 Saturday Peak Hour - VISSIM Model (Journey Time) Results
\begin{tabular}{|l|l|c|c|c|c|}
\hline \begin{tabular}{l} 
Travel \\
\begin{tabular}{l} 
Time \\
section
\end{tabular}
\end{tabular} Section reference & \begin{tabular}{c} 
Future Base \\
VISSIM
\end{tabular} & \begin{tabular}{c} 
Proposed \\
Option 0+ \\
VISSIM
\end{tabular} & Difference (s) & Difference (\%) \\
\hline \multirow{3}{*}{ H91 } & Wood Lane to West Cross Way & 251 & 244 & -7 & \(-3 \%\) \\
\cline { 2 - 6 } & West Cross Way to Wood Lane & 243 & 233 & -11 & \(-4 \%\) \\
\hline \multirow{2}{*}{ E1 } & West Cross Way to Syon Lane & 177 & 229 & 51 & \(29 \%\) \\
\cline { 2 - 6 } & Syon Lane to West Cross Way & 221 & 187 & -34 & \(-15 \%\) \\
\hline
\end{tabular}
11.13.6 The results demonstrate that the H91 would experience very minor journey time increases westbound of up to 19 seconds in the weekday AM Peak hour, while eastbound, a saving of 21 seconds has been recorded. Bus journey time savings have also been recorded of up to 11 seconds during the weekday PM Peak and Saturday Peak periods.

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11.13.7 The results demonstrate substantial journey time savings for the E1 bus service in both directions of up to 146 seconds in the weekday AM Peak hour, with minor journey time reductions eastbound (towards Ealing Broadway) during both the weekday PM Peak and Saturday Peak periods and minor increases in bus journey times in the westbound direction.

\subsection*{11.14 Summary}
11.14.1 A VISSIM microsimulation traffic model has been developed to assess the traffic impact of the proposed development. The model has been developed in accordance with TfL's guidelines and has utilised outputs from TfL's LoHAM strategic model.
11.14.2 Analysis of future traffic flows reveals that background traffic is forecast to grow in the study area, however the net change in traffic from the proposed development is negative. A detailed traffic redistribution exercise has been undertaken to reflect the changes in traffic flows.

Proposals to mitigate the impact of the development on the Gillette Corner junction have been developed, and tested using the VISSIM model. The model results reveal a series of positive and negative changes in journey times as a consequence of the scheme. Separate assessment of bus movements reveal an overall improvement in bus journey times as a consequence of the scheme. Overall the assessment demonstrates that the residual cumulative impact of the development on the road network would not be severe. As such there is no reason in terms of its impact on highway capacity why the developments should not be delivered.

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\section*{12 Construction}

\subsection*{12.1 Preface}
12.1.1 Full consideration of the construction phase of the development is given in an associated Outline Construction Logistics Plan (CLP) and the key outcomes of the Outline CLP document are summarised below.
12.1.2 It is anticipated that subject to the granting of planning consent, The anticipated start date for the construction works is the third quarter of 2021, with completion envisaged for the third quarter of 2026. An outline construction programme for the proposed development at the Homebase site is shown in Table 12.1.

Table 12.1: Outline Construction Programme
\begin{tabular}{|l|l|l|l|}
\hline Phase & Development & \begin{tabular}{c} 
Anticipated Commencement of \\
Phase
\end{tabular} & \begin{tabular}{c} 
Anticipated Completion of \\
Phase
\end{tabular} \\
\hline 1 & Vacant Possession/Demolition of Homebase & Q3 2021 & Q2 2023 \\
\hline 2 & Construction of Tesco & Q3 2021 & Q2 2023 \\
\hline 3 & Construction of Block C & Q2 2023 & Q4 2024 \\
\hline 4 & Construction of Block D & Q2 2023 & Q1 2025 \\
\hline 5 & Construction of Block B & Q4 2023 & Q1 2026 \\
\hline 6 & Construction of Block E & Q2 2024 & Q2 2026 \\
\hline 7 & Construction of Block A & Q2 2024 & Q3 2026 \\
\hline
\end{tabular}

\subsection*{12.2 Construction Vehicle Access}
12.2.1 In order that the construction traffic associated with the Homebase site circulates the development in an efficient manner, it is proposed that construction traffic would enter Syon Gate Way from Syon Lane, and route around the development site one-way to exit onto the A4 Great Western Road. All construction activity would be subject to Construction Management Plan controls and best practice as a means to manage potential vehicle, pedestrian and cycle conflicts.
12.2.2 The key principle will be ensuring freight drivers use the Transport for London Road Network red route and Strategic Road Network (SRN) routes, where the design for road safety with freight use has been considered.
12.2.3 In general, suppliers and contractors will be advised to approach the site from the north (i.e. via the A4), unless the practicality of such would result in a detrimental impact on-site access efficiency, or notably greater amount of distance travelled.
12.2.4 Any routeing instructions that are instructed to suppliers and contractors will include notice of the weight restriction on vehicles above 5 tonnes that operates along Syon Lane between 6 pm and 8:30am.

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12.2.5 For phases and work packages where the consolidation of trips can be undertaken (in particular practicable for demolition and any excavation works), construction vehicles would be routed from the closest Construction Consolidation Centre (CCC), where bulk material would be stored and transported. The Wincanton Greenford Consolidation Centre was established as the closest centre in relation to the site. Insert \(\mathbf{1 2 . 1}\) details the proposed construction vehicles arrival and departure routes along the TLRN red route. The plans can also be found in Appendix \(\mathbf{T}\).

Insert 12.1: Construction route (Inbound/Outbound)

12.2.6 It is envisaged that the construction programme will extend for 260 working weeks, with works being undertaken from 08:00 to 18:00, Monday to Friday, and from 08:00 to 13:00 on a Saturday.
12.2.7 The number of HGVs that can be held on-site will vary through different stages of construction. The CLP presents a series of access configurations that are proposed in respect of various constraints that will be imposed by elements of the on-site works. For each access configuration, there will be opportunities for holding some vehicles on-site and a vehicle call up procedure will therefore be in operation that will be informed by, and coordinated with, the available on-site capacity. If required, HGVs will be held at Heston Services prior to being called to Site.

\subsection*{12.3 Construction Vehicle Trips}
12.3.1 In addition to the estimated trips after the completion of the development at the Homebase site, construction vehicle trips are also to be considered.
12.3.2 It is understood that the construction phase would be carried out over a five-year period.

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12.3.3 The TRICS ‘Construction Traffic - Research Report' states that a "The varieties of activities that may take place during construction require the use of a wide range of vehicle types. These may be identified and grouped according to their size". Based on the content of this document it is estimated that \(71.56 \%\) of construction trips to site would be undertaken by HGV. The full methodology is summarised within Appendix \(U\).
12.3.4 The estimated number of construction vehicle trips by development block is summarised in Table 12.2.

Table 12.2 : Construction Vehicle trips
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline Activity & Weeks & Days & Units & One-way Trips & \begin{tabular}{l}
One-way \\
Trips HGV
\end{tabular} & Trips per day & Trips per day HGV \\
\hline Enabling Works & 5.0 & 27.5 & N/A & 230 & 164 & 8 & 6 \\
\hline Demolition & 22.0 & 121.0 & N/A & 1011 & 723 & 8 & 6 \\
\hline Basement to Podium & 76.0 & 418.0 & N/A & 19136 & 13694 & 46 & 33 \\
\hline Tesco Works & 86.4 & 475.2 & N/A & 3970 & 2841 & 8 & 6 \\
\hline Block A & 89.4 & 491.7 & 69 & 4666 & 3339 & 9 & 7 \\
\hline Block B1 & 107.1 & 589.1 & 105 & 7100 & 5081 & 12 & 9 \\
\hline Block B2 & 107.3 & 590.2 & 82 & 5545 & 3968 & 9 & 7 \\
\hline Block B3 & 110.8 & 609.4 & 76 & 5139 & 3678 & 8 & 6 \\
\hline Block C & 73.2 & 402.6 & 79 & 5342 & 3823 & 13 & 9 \\
\hline Block D & 73.6 & 404.8 & 35 & 2367 & 1694 & 6 & 4 \\
\hline Block E & 75.0 & 412.5 & 34 & 2299 & 1645 & 6 & 4 \\
\hline Totals & n/a & n/a & 480 & 56804 & 40649 & n/a & n/a \\
\hline
\end{tabular}
12.3.5 Based on the construction programme Insert \(\mathbf{1 2 . 1}\) shows the profile of construction trips anticipated to and from the Homebase site.

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Insert 12.1: Homebase Site Construction Traffic Profile

12.3.6 Insert 12.1. shows that for the majority of the construction programme, the number of one-way construction traffic movements will be in the region of 50 vehicles or less per day. Assuming a 10 hour working day, this would equate to approximately five construction vehicles an hour which is less than the vehicle trips associated with the existing Homebase use of the site (if operational). (Table 8.1 of this report shows that the traffic attraction of the existing Homebase use ranges between 700 - 900 one way vehicle movements per day).

\subsection*{12.4 Highway Safety and Considerate Behaviour}
12.4.1 The appointed contractor will prioritise sustainable modes of transport for contractors to visit the site. Lockers will be provided for staff who wish to travel by public transport and need to store tools on site.
12.4.2 Contractors will be informed that parking will not be permitted along the adjacent roads. Where parking is essential, contractors will park within the site compound. The site compound will be gated and remain locked at all times to ensure pedestrians cannot enter the live construction site. The site must be a safe place to work on and also a safe place for pedestrians to pass by.
12.4.3 All construction deliveries must take place from within the site. Special arrangements for abnormal loads, cranes and other heavy lifting equipment deliveries will be made separately by the appointed Contractor with LBH. The key principles of the routing, access and loading points are outlined above, noise implications will be considered by the appointed Contractor.
12.4.4 Engines of vehicles must be switched off wherever practicable when the vehicle is not in use, to ensure unnecessary noise is kept to a minimum. The contractor will ensure wheel washing facilities are provided within the site to minimise the carry of dust, mud and debris to the public highway.
12.4.5 Where possible, multiple deliveries will be consolidated into fewer vehicles in order to reduce the number of times vehicles will be accessing the site. Contractors must not store goods or other construction materials on the public highway at any time.

\section*{13 Summary and Conclusion}

\subsection*{13.1 Summary}
13.1.1 This TA has been prepared on behalf of St Edward Homes Limited in relation to the proposed development of the Homebase Brentford site located to the east of Syon Lane and to the south of the A4 Great West Road. This report has provided a comprehensive review of any implications the proposed development may have on people in terms of highways and transport. The proposals seek to develop the site in order to provide a new Tesco store at ground floor level with 400 parking spaces, and 473 residential units above served by 105 parking spaces (including 2 Car Club spaces and 3 visitor parking spaces). A summary of the positive outcomes resulting from the TA is provided within Table 13.1.

Table 13.1: Summary of Positive Outcomes
\begin{tabular}{|c|c|c|}
\hline Chapter & Key transport Impacts/issues & Solutions/Mechanisms \\
\hline Proposed Development & The current retail stores have considerable car parking and are perceived as car orientated & \begin{tabular}{l}
- The new Tesco store will be located adjacent to Gillette Corner, a busy pedestrian route. \\
- The public realm in the vicinity of the site will be significantly upgraded, creating an attractive pedestrian environment. \\
- Visitor cycle parking will be provided at convenient locations within the public realm, to London Plan standards. \\
- The scheme removes the Homebase store and would not reprovide the Tesco PFS, and there would be associated traffic reductions. \\
- The development would not re-provide car parking at the level of the existing Tesco, Osterley site and overall the development of the site, and the Tesco, Osterley site, would result in a significant reduction in retail car parking numbers.
\end{tabular} \\
\hline Site and Surroundings & The existing Tesco site is car dominated and there are a number of emerging developments in the area. & \begin{tabular}{l}
- It is recognised that a high pedestrian demand exists to/from Syon Lane station, towards the Sky Campus in the morning and evening peak periods of travel demand. As a consequence the existing underpass beneath the A4 is well used. \\
- All emerging developments discussed show a commitment to walking, cycling and public transport modes. These developments look to provide ample cycle parking provision, both on-site and in the public realm. \\
- There are a number of public transport and pedestrian/cycle infrastructure improvements committed in the local area. This includes the proposed Golden Mile Station, an extension of the West London Orbital rail line, as well as improvements to Piccadilly and Southern rail services. These commitments will improve the PTAL rating of the site to a level 4. These measures are likely to come forward to support the Opportunity Area, regardless of the outcome of the planning application to which this report relates.
\end{tabular} \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|}
\hline Chapter & Key transport Impacts/issues & Solutions/Mechanisms \\
\hline & & \begin{tabular}{l}
- Improved pedestrian and cycle routes, including the Boston Manor Boardwalk and CS9, will encourage active travel modes in the area. \\
- As a result of the development, and the associated redevelopment of Homebase, Brentford, an overall reduction in traffic movements can be expected. This reduction would be particularly pro pronounced on Syon Lane north of the A4 Great West Road, where the reduction in traffic can be expected to be in excess of 3000 trips over the course of a typical day. \\
- The proposed Tesco foodstore will be provided with a floor area of circa 1,000 sq.m less than the existing store at Tesco, Osterley.
\end{tabular} \\
\hline Transport Planning for People & \begin{tabular}{l}
The development supports the Healthy Streets approach of putting people at the heart of the development. \\
TfL classification tool suggests the borough has a mixed profile in terms of transport usage. Car usage remains high and attitude towards change appears to be average.
\end{tabular} & \begin{tabular}{l}
- The ATZ assessment has concluded that there is good access to public transport and local services and facilities from the site. This indicates a potential for the majority of trips to/from the site to be undertaken by sustainable modes. \\
- However, considering the significant emerging developments in the local area, both in terms of employment and transport options, there is potential to change the mindset towards sustainable transport options.
\end{tabular} \\
\hline London-wide Network & The site is on the border of PTAL \(2 / 3\) & \begin{tabular}{l}
- While the site falls in an area of PTAL \(2 / 3\) there are a number of bus services, rail and tube within walking distance of the site. Furthermore, London road, within 500 m of the site has pockets of PTAL 4. \\
- In addition to this, there are significant public transport improvements emerging in the local area associated with the Golden Mile masterplan. This includes the new Golden Mile station and wider improvements to local bus and rail services. Consequently, the site's public transport accessibility will improve over time to a PTAL 4.
\end{tabular} \\
\hline Multi-modal Trip Generation and Attraction & Changes to traffic volumes as a result of the combined development of Tesco, Osterley and Homebase, Brentford & \begin{tabular}{l}
- It is estimated that the development of 473 residential units at the Homebase site would generate some 339 and 270 twoway person trips during the weekday AM and PM peak hours respectively. In the AM and PM peaks, 35 two-way trips would be made by car. \\
- The Mayor's Transport Strategy (2018) includes "a bold aim for 80 per cent of all trips in London to be made on foot, by cycle or using public transport by 2041." Based on the assessment provides above, 4,186 two-way trips would enter and exit the site boundary (weekday 07:00-19:00) on foot or by cycle and this represents approximately \(67 \%\) of all trips to be undertaken. In the context of significant proposed improvements to the public transport infrastructure to support
\end{tabular} \\
\hline
\end{tabular}

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\begin{tabular}{|c|c|c|}
\hline Chapter & Key transport Impacts/issues & Solutions/Mechanisms \\
\hline & & \begin{tabular}{l}
the Opportunity Area, the ability to meet TfL's 2041 target of \(80 \%\) of trips to be made on foot or by cycle is feasible. \\
- Based on a two-way weekday bus journey travel demand of 665 trips (07:00-19:00), a journey by bus would form all (or part) of approximately \(31 \%\) of all journeys made to and from the development site. \\
- Over the course of a 12 -hour week day (07:00-19:00) 826 two-way residential trips would be undertaken by Underground service or by mainline rail. \\
- On-site loading facilities are provided to support the site's residential and non-residential development, with provision made to a level that would accommodate the estimated demand. \\
- As a result of the development, and the associated development of Homebase, Brentford, an overall reduction in car trips is predicted locally. This reduction is significant on Syon Lane, north of the A4, where the reduction in trips is as a result of the Tesco store being relocated to the south of the A4.
\end{tabular} \\
\hline Modelling & The 2035 future year baseline provided by TfL reveals increases in background traffic growth & \begin{tabular}{l}
- Proposals have been put forward to increase traffic capacity at the Gillette Corner junction. \\
- The model has been prepared with refence to the guidelines published by TfL and the model is subject to TfL's Model Audit (MAP) process. \\
- At the request of TfL, the assessment considers background traffic growth on the highway, to 2035, based on data published in LoHAM. LoHAM data has also been used to determine the distribution of residential traffic movements. \\
- While traffic growth has been applied within the model to surveyed traffic flows, it is noted that DfT data for the A4 has not identified any material traffic growth on the A4 since 2000. \\
- The methodology for the assessment of a defined traffic network, centred on the Gillette Corner junction, has been discussed and agreed with TfL in advance of the planning submission. \\
- The VISSIM model identifies that there would be slight increases in journey time on some routes through the network and decreases on others but in most cases these changes are less than 30 seconds, and in each of the AM peak, the PM peak and the Saturday peak, the reductions in journey time (up to a maximum of 139 seconds) would far outweigh the increases (up to a maximum of 82 seconds).
\end{tabular} \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline Chapter & |Key transport Impacts/issues & Solutions/Mechanisms \\
\hline & & \begin{tabular}{l}
- Overall, the journey time analysis reveals that the junction of Syon Lane with the Great West Road would not be adversely affected and overall there would be a positive effect on how the junction operates. \\
The assessment has been based on a revised highway arrangement, that includes the provision of a second right hand turn from the A4 (west) to Syon Lane (south). This is referred to as Design Option 1 and is the applicants preferred design solution for the Gillette Corner junction, however in parallel TfL have requested that additional highway arrangements are tested through the VMAP process. These additional scenarios seek to add additional pedestrian and cycle priority at the junction.
\end{tabular} \\
\hline Construction & Increased HGV and construction vehicle traffic during the construction phase & \begin{tabular}{l}
- The key principle of will be ensuring that freight drivers stick to the TLRN red route, where the design for road safety with freight use has been considered. \\
- The appointed contractor will prioritise sustainable modes of transport for contractors to visit the site. \\
- An Outline Construction and Logistics Plan has been developed and this highlights the use of a consolidation centre as a means to reduce the number of construction trips.
\end{tabular} \\
\hline
\end{tabular}

\subsection*{13.2 Conclusion}
13.2.1 The development scheme has been designed to reflect the expectations of the Healthy Streets approach, the London Plan, Vision Zero and other relevant national, regional and local planning policy.
13.2.2 This document has identified that the development would not result in an adverse transport impact and the development is therefore supported by transport planning policies at a national, regional and local level. Specifically, this document has demonstrated that:
- Significant improvements will be made to the local pedestrian and cycling environment in line with the latest Healthy Streets guidance which ensures that the development proposals have been designed to prioritise cyclists and pedestrians.
- The scheme will provide cycle parking in accordance with the Intend to Publish London Plan standards.
- The site already has connectivity to public transport and further improvements are planned, which will increase the PTAL to 4.
- Significant improvements will be made to the local bus services, including the provision of a bus route extension and a substantial financial contribution from the applicant towards increasing the level of bus services more generally.
- In conjunction with the Tesco Osterley development the total amount of retail car parking will reduce significantly.
- The trip generation / attraction calculations show a decrease in vehicle trips overall.
- The modelling shows that there would not be a severe residual impact in terms of junction capacity and delay to vehicles on the local highway network.
13.2.3 The National Planning Policy Framework (June 2019) paragraph 109 states that "Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe." This report has established that there would not be a severe impact.
13.2.4 In light of the above and the preceding assessment, it is concluded that the development proposals are in accordance with the principles of sustainable development set out within the National Planning Policy Framework, and are therefore fully acceptable in transport planning terms.

\section*{Appendix A - AADT Data}

\section*{DfT Count Point 16111}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Year & easting & northing & Estimation Method & Pedal Cycles & Powered Two
Wheelers Wheeler & Cars/ Taxis & Buses and Coaches & LGVs & \[
\begin{gathered}
\text { HGV - } 2 \text { Axle } \\
\text { Rigid }
\end{gathered}
\] & \[
\begin{gathered}
\text { HGV - } 3 \text { Axle } \\
\text { Rigid }
\end{gathered}
\] & HGV-3/4
Axle
Articulated & HGV - 4+ Axle Rigid & HgV - 5 Axle Articulated & HgV-6 Axle Articulated & All hgv & All Motor Traffic \\
\hline 2018 & 515000 & 177200 & Counted & 324 & 639 & 32017 & 387 & 5595 & 429 & 129 & 49 & 283 & 100 & 78 & 1069 & 39707 \\
\hline 2017 & 515000 & 177200 & Estimated & 324 & 779 & 34589 & 424 & 5024 & 456 & 130 & 36 & 259 & 112 & 91 & 1084 & 41900 \\
\hline 2016 & 515000 & 177200 & Estimated & 332 & 751 & 34600 & 442 & 5066 & 463 & 122 & 40 & 302 & 112 & 94 & 1134 & 41993 \\
\hline 2015 & 515000 & 177200 & Counted & 321 & 700 & 35329 & 418 & 4912 & 472 & 130 & 39 & 215 & 111 & 83 & 1050 & 42409 \\
\hline 2014 & 515000 & 177200 & Estimated & 72 & 591 & 44169 & 359 & 4224 & 408 & 43 & 17 & 146 & 14 & 34 & 663 & 50007 \\
\hline 2013 & 515000 & 177200 & Counted & 64 & 571 & 44042 & 374 & 4086 & 446 & 44 & 18 & 149 & 16 & 32 & 705 & 49778 \\
\hline 2012 & 515000 & 177200 & Estimated & 16 & 454 & 33962 & 357 & 3645 & 815 & 218 & 32 & 252 & 79 & 94 & 1491 & 39909 \\
\hline 2011 & 515000 & 177200 & Counted & 18 & 418 & 34622 & 362 & 3733 & 773 & 192 & 38 & 212 & 74 & 82 & 1371 & 40506 \\
\hline 2010 & 515000 & 177200 & Estimated & 166 & 473 & 33919 & 443 & 3539 & 704 & 245 & 97 & 138 & 74 & 78 & 1336 & 39710 \\
\hline 2009 & 515000 & 177200 & Estimated & 171 & 504 & 34860 & 417 & 3579 & 677 & 248 & 92 & 162 & 86 & 85 & 1350 & 40710 \\
\hline 2008 & 515000 & 177200 & Counted & 158 & 534 & 35141 & 396 & 3674 & 722 & 243 & 111 & 166 & 112 & 98 & 1452 & 41197 \\
\hline 2007 & 515000 & 177200 & Counted & 179 & 559 & 32622 & 304 & 3997 & 1020 & 74 & 41 & 122 & 57 & 105 & 1419 & 38901 \\
\hline 2006 & 515000 & 177200 & Counted & 199 & 535 & 36535 & 583 & 4971 & 701 & 99 & 65 & 150 & 87 & 53 & 1155 & 43779 \\
\hline 2005 & 515000 & 177200 & Counted & 117 & 615 & 39383 & 400 & 3685 & 937 & 80 & 44 & 157 & 84 & 52 & 1354 & 45437 \\
\hline 2004 & 515000 & 177200 & Counted & 196 & 436 & 39790 & 258 & 3478 & 952 & 87 & 49 & 188 & 73 & 29 & 1378 & 45340 \\
\hline 2003 & 515000 & 177200 & Counted & 160 & 666 & 36870 & 597 & 4259 & 867 & 171 & 49 & 221 & 54 & 65 & 1427 & 43819 \\
\hline 2002 & 515000 & 177200 & Counted & 136 & 829 & 38143 & 407 & 3426 & 1522 & 119 & 39 & 198 & 63 & 41 & 1982 & 44787 \\
\hline 2001 & 515000 & 177200 & Counted & 192 & 599 & 39435 & 314 & 5303 & 919 & 82 & 61 & 130 & 107 & 53 & 1352 & 47003 \\
\hline 2000 & 515000 & 177200 & Counted & 287 & 600 & 41121 & 430 & 3213 & 1270 & 107 & 35 & 144 & 83 & 66 & 1705 & 47069 \\
\hline
\end{tabular}


\section*{DfT Count Point 75072}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Year & easting & northing & Estimation Method & Pedal Cycles & Powered Two
Wheelers & Cars/ Taxis & Buses and Coaches & LGVs & HGV-2 Axle Rigid & \[
\begin{gathered}
\text { HGV - } 3 \text { Axle } \\
\text { Rigid }
\end{gathered}
\] & \[
\begin{gathered}
\text { HGV - } 3 / 4 \\
\text { Axle } \\
\text { Articulated }
\end{gathered}
\] & HGV - 4+ Axle Rigid & HGV-5 Axle Articulated & HGV - 6 Axle Articulated & All HGV & All Motor Traffic \\
\hline 2018 & 517000 & 177810 & Estimated & 695 & 1248 & 43730 & 504 & 8678 & 608 & 330 & 23 & 417 & 128 & 160 & 1667 & 55827 \\
\hline 2017 & 517000 & 177810 & Counted & 704 & 1239 & 43768 & 524 & 8504 & 605 & 334 & 23 & 517 & 132 & 166 & 1778 & 55813 \\
\hline 2016 & 517000 & 177810 & Counted & 900 & 1354 & 47499 & 517 & 9002 & 649 & 305 & 27 & 465 & 100 & 127 & 1673 & 60046 \\
\hline 2015 & 517000 & 177810 & Estimated & 799 & 955 & 45639 & 462 & 7117 & 774 & 285 & 34 & 579 & 87 & 104 & 1863 & 56035 \\
\hline 2014 & 517000 & 177810 & Counted & 696 & 1009 & 45793 & 482 & 6840 & 779 & 266 & 29 & 582 & 91 & 109 & 1856 & 55979 \\
\hline 2013 & 517000 & 177810 & Counted & 298 & 892 & 39061 & 613 & 6247 & 427 & 183 & 0 & 187 & 42 & 139 & 978 & 47791 \\
\hline 2012 & 517000 & 177810 & Counted & 407 & 1364 & 50653 & 1294 & 6428 & 1294 & 621 & 93 & 749 & 245 & 326 & 3328 & 63066 \\
\hline 2011 & 517000 & 177810 & Counted & 165 & 558 & 47320 & 333 & 4904 & 504 & 189 & 13 & 234 & 52 & 101 & 1093 & 54208 \\
\hline 2010 & 517000 & 177810 & Counted & 248 & 880 & 63006 & 406 & 5945 & 1532 & 169 & 4 & 449 & 68 & 244 & 2466 & 72703 \\
\hline 2009 & 517000 & 177810 & Counted & 169 & 702 & 45170 & 285 & 5305 & 1042 & 273 & 187 & 322 & 142 & 144 & 2110 & 53572 \\
\hline 2008 & 517000 & 177810 & Counted & 332 & 1203 & 72834 & 844 & 8410 & 2677 & 450 & 240 & 536 & 206 & 283 & 4392 & 87683 \\
\hline 2007 & 517000 & 177810 & Estimated & 620 & 989 & 59610 & 427 & 5817 & 1841 & 316 & 102 & 671 & 100 & 97 & 3127 & 69970 \\
\hline 2006 & 517000 & 177810 & Estimated & 480 & 1008 & 60518 & 425 & 5692 & 1645 & 283 & 106 & 546 & 94 & 84 & 2758 & 70401 \\
\hline 2005 & 517000 & 177810 & Counted & 387 & 926 & 59428 & 405 & 5740 & 1656 & 292 & 123 & 520 & 110 & 81 & 2782 & 69281 \\
\hline 2004 & 517000 & 177810 & Estimated & 111 & 870 & 53606 & 608 & 7413 & 2012 & 315 & 153 & 410 & 112 & 87 & 3089 & 65586 \\
\hline 2003 & 517000 & 177810 & Counted & 129 & 911 & 52972 & 533 & 7828 & 1823 & 270 & 159 & 340 & 124 & 79 & 2795 & 65039 \\
\hline 2002 & 517000 & 177810 & Estimated & 430 & 1254 & 56549 & 520 & 5146 & 1241 & 362 & 51 & 512 & 87 & 64 & 2317 & 65786 \\
\hline 2001 & 517000 & 177810 & Counted & 413 & 1310 & 56549 & 477 & 5045 & 1335 & 360 & 60 & 509 & 106 & 62 & 2432 & 65813 \\
\hline 2000 & 517000 & 177810 & Estimated & 376 & 1211 & 56493 & 446 & 5030 & 1429 & 328 & 64 & 534 & 114 & 51 & 2520 & 65700 \\
\hline
\end{tabular}


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\section*{Appendix B - Committed Developments}

Table 1: Cumulative Schemes
\begin{tabular}{|c|c|c|c|}
\hline Scheme Name \& Application Number & Scheme Details & Planning Status & Approximate Distance from the site \\
\hline Former Syon Gate Service Station, Land at South of Gillette Corner, Great West Road, Isleworth TW7 5NP (Ref: 00505/AF/P28) & Erection of up to six storey building to provide Class B1 (office) and Class B8 (self-storage) uses, with associated car parking and landscaping. & Approved at Planning Committee 2 May 2019 & Approximately 50 m west of the site. \\
\hline New Horizons Court, Ryan Drive, Brentford, TW8 9EP (Ref: 02912/A/P1) & Various alterations and extensions to existing buildings known as NHC1, NHC2, NHC3, NHC4, D1 to D7 and D8/D9, including some limited deconstruction works and removal/replacement of rooftop plant; removal/replacement of ancillary cafe kiosk and security hut / vehicle barriers; change of use of D8/D9 to ancillary cafe and/or gym (Use Classes A3/D2); internal estate highway, footway and landscaping works and formation of new southern pedestrian access route. & \[
\begin{aligned}
& \text { Approved } 15^{\text {th }} \text { August } \\
& 2017
\end{aligned}
\] & Approximately 50m north of the site. \\
\hline 891 Great West Road, Isleworth London TW7 5PD (Ref: 00505/891/P4) & Demolition of existing buildings and erection of a four-storey building to provide 15 selfcontained flats, provision of private and shared amenity space, cycle parking, hard and soft landscaping and associated development. & Allowed on appeal 4 April 2019 & Approximately 100 m west of the site. \\
\hline 4 and 8 Harlequin Avenue, Brentford, TW8 9EW (Ref: 00558/4-8/P1) & Demolition of existing building and construction of a six-storey building for Class B1b /B1c office use with associated car parking. & Planning permission granted on \(21^{\text {st }}\) December 2018 & Approximately 250 m north of the site. \\
\hline Tesco Superstore, Syon Lane, Isleworth, TW7 5NZ (Ref: 01106/B/SCOPE1) & Scoping opinion for proposed residential led, mixed-use development of the Osterley Tesco site. & Planning application to be submitted & Approximately 300 m northwest of the site \\
\hline Sky, Sites 6 \& 7, Grant Way, Isleworth TW7 5QD (Ref: 00558/A/P69) & Reserved matters (layout, scale, access, landscaping and appearance for Parcel F) application for the erection of two buildings comprising a single storey pavilion and a ground plus three storey building office and ancillary food and beverage with associated landscaping, servicing, plant and all ancillary enabling works within Parcel F following approval of an outline application ref 00558/A/P64 dated 18/08/2015 for variation of condition 7 (approved plans) to allow for B 8 use within Parcel D, reallocation of parking and changes to Parcel \(D\) height parameters along with pedestrian and vehicular access and accessible space to planning permission dated 2 April 2015 for Section 73 application seeking a minor material amendment to planning permission 00558/A/P55 which granted approval for a section 73 application seeking minor material amendment (reduce site boundary, reduction of B1 floor space, reallocation of parking, changing position of link & Approved on \(4^{\text {th }}\) September 2019 & Approximately 350 m north west of the site. \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|}
\hline Scheme Name \& Application Number & Scheme Details & Planning Status & Approximate Distance from the site \\
\hline & road and changes to parameters of plots) to planning permission 00558/A/P51 which granted approval for an Outline application for the demolition of existing buildings and structures and the development for a media broadcasting and production campus of up to \(104,670 \mathrm{sq} \mathrm{m}\) (GIA) (now reduced to \(95,934 \mathrm{sq} \mathrm{m}\) - excluding parking floor space) comprising office (Class B1a), studio production and research and development facilities (Class B1b) and warehouse/storage (Class B8); hard and soft landscaping; reconfigured and new vehicle and pedestrian accesses and works to the public highway; the provision of parking; and all necessary ancillary and enabling works, plant and equipment. & & \\
\hline Bolder Academy, 1 MacFarlane Lane, Isleworth, TW7 5PN (Ref: 01106/W/P9) & Demolition of club house and associated car park and MUGA, construction of a new part 2 - part 4 storey secondary school (Use Class D1) with ancillary car parking, cycle parking, Multi-Use Games Area, hard and soft landscaping and associated works, together with improvements to MacFarlane Lane. & Approved on \(4^{\text {th }}\) September 2019 & Approximately 500 m north west of the site. \\
\hline \begin{tabular}{l}
1 Commerce Road, Brentford, London, TW8 8LE \\
(Ref: 00297/H/P13)
\end{tabular} & Redevelopment of the site involving the retention, restoration and alteration of the existing Art Deco facade, demolition of the remainder of the buildings on the site and redevelopment to provide a five to seven-storey building comprising 76 flats and 138 square metres of square metres flexible industrial, research and development or office floorspace in use classes B1a, B1b, or B1c, with associated parking and landscaping. & Planning permission granted on \(10^{\text {th }}\) January 2019 & Approximately 750 m east of the site. \\
\hline
\end{tabular}


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\section*{Appendix C - ATZ Assessment}

\title{
SYON GARDENS HOMEBASE BRENTFORD SITE, TW7 5QE
} Healthy Streets Active Travel Zones Assessment

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29-07-2020 - aw

Approved by:
AW
Date / initials: 29-07-2020 - aw

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Project related

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\author{
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}

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\section*{1 Introduction}
1.1.1 This Technical Note has been prepared by Royal HaskoningDHV (RHDHV), on behalf of St Edward Homes Ltd, in association with a planning application for a proposed Tesco foodstore measuring circa 8,400 sqm (GEA) and 470 residential apartments, on land occupied by Homebase, adjacent to Syon Lane, Brentford.
1.1.2 This Technical Note summarises the findings of the Active Travel Zone (ATZ) Assessment site visit and point of view (POV) photography undertaken in association with the preparation of the planning application's Transport Assessment for the scheme.
1.1.3 The purpose of the ATZ assessment is to establish what transport connections and local amenities would be accessible to future employees at the site, and establish whether these facilities would be sufficient to support car free living.
1.1.4 A number of key destinations have been identified in relation to the site. These routes have been considered likely to be frequently used by active travel modes:
- The Bus Stops A/B located on Syon Lane and X/W on London Road;
- The Bus stops C/D adjacent to Harlequin Avenue, along the A4;
- Syon Lane Station;
- The Sky Campus (employment area)
- The Bolder Academy;
- Nishkam School;
- The Marlborough Primary School;
- Syon Park, Boston Manor Park and Osterley Park;
- Osterley Underground Station;
- The proposed Golden Mile Station;
- Brentford Town Centre;
- Proposed C9 cycle route;
- West Middlesex Hospital;
- And local place of worship.

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\section*{2 Key Destination Route 1 - Homebase site to Syon Lane Station and Bus stops A/B}

\subsection*{2.1 Description}
2.1.1 Key Destination Route 1 connects the site with bus stops adjacent to the site, and Syon Lane railway station. The route follows Syon Lane for approximately 100 metres (m), passing bus Transport for London (TfL) bus stops A/B, before reaching the station. Syon Lane is provided with footways to both sides of the road.
2.1.2 Insert 2.1 shows the route from the site to Syon Lane Station. The station is within a 100 m walk distance of the site boundary.

Insert 2.1: Key Destination Route 1


\subsection*{2.2 Photographs}
2.2.1 Pedestrian point of view photographs were taken at a number of locations along the route. The point of view photographs are presented in Inserts 2.2 to \(\mathbf{2 . 5}\).

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Insert 2.2: Route 1 - Photo Location 1


Insert 2.3: Route 1 - Photo Location 2


Insert 2.4: Route 1: Photo Location 3


Insert 2.5: Route 1: Photo Location 4


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\subsection*{2.3 Worst Journey Location}
2.3.1 TfL's Healthy Streets criteria suggest highlighting the most unpleasant or potentially unsafe location for people along each Key Destination Route. In the case of Route 1, the route is approximately 100 m in length and so an assessment of the entire route is possible.
2.3.2 This route is described below in the context of the Healthy Streets indicators, in addition to suggestions for how the location could be improved for pedestrians and cyclists.

\section*{Clean air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
2.3.3 The route depicted above runs adjacent to Syon Lane, on a section of road in close proximity to the highly trafficked Great West Road (A4). It is unlikely that air quality could be drastically improved without changes to reduce traffic volume through the area.
2.3.4 The footway is wide on both sides of the road, and sections of the highway and footway are separated by trees and vegetation, as seen in Location 1.
2.3.5 Furthermore, the Design and Access Strategy (DAS) outlines provision of a new pedestrian and cycle friendly clean air route, via Syon Gateway and the new eastern street (Syon Gate Lane) as envisaged in the Great West Road Masterplan.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
2.3.6 The route leads towards Syon Lane station, bypassing Bus stop A, and as a result, there is high volumes of pedestrian flows and cars and buses bypassing the area. Furthermore, street lighting is provided along the route.
2.3.7 It is considered that people would not feel worried about road danger, due to the adequate provision of pedestrian footways and signalised crossings.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
2.3.8 Syon Lane is a moderately trafficked route, any improvements to noise levels would need to be centred on reduced levels of traffic on this road.
2.3.9 It is proposed that the planting of Pleached trees will provide natural green screens from Syon Lane, helping to mitigate potential noise and visual pollution issues.

\section*{Easy to Cross}

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'Making streets easier to cross is important to encourage more walking and to connect communities.'
2.3.11 Pedestrian crossings in the form of signalised crossings with suitable dropped kerbs and tactile paving are provided in close proximity to Syon Lane station. The crossing facilities provide good quality and well-located pedestrian crossings in relation to the site.

\section*{Places to stop and rest}
'A lack of resting places can limit mobility for certain groups of people.'
2.3.12 There were no places to stop and rest between the site, Bus stop A and Syon Lane station, however as the station was within 100 m of the site, it is not considered that the lack of resting places would hinder access to the site.
2.3.13 It is proposed that a number of benches would be introduced between the site and Syon Lane Station, alongside additional planting and trees, as part of wider landscape enhancements.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
2.3.14 Shade and shelter on this route are provided in the form of trees lining both sides of Syon Lane. The route is well shaded and would provide shelter in the event of adverse weather conditions. Furthermore, the bus stop provides shelter for those taking advantage of bus links nearby to the site.
2.3.15 Furthermore, additional trees would be planted as part of the development, subsequently improving the pedestrian environment. This would include the planting of Stone Pine, which has an elevated-spreading crown making it an ideal species to create an urban tree glade, providing natural shelter for the whole year.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
2.3.17 The site is located within a short, convenient walk from bus stop A and Syon Lane station. Whilst Syon Lane is a relatively trafficked route, the footways alongside the road are wide, allowing for free movement of pedestrian and greenery lines both edges of Syon Lane, making for a reasonably pleasant environment.
2.3.18 In addition to aforementioned tree planting, the section of footway from the underpass on the corner of the Syon Lane/A4 Great West Road to Syon Gateway would be upgraded with block paving. This proposal would further enhance the pedestrian experience along this section of footway. Benches and planters would also be introduced along this section of footway.

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\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
2.3.19 There is plenty of greenery on both sides of Syon Lane on the route to the station. Any lack of things to do and see isn't considered to be a hindrance to this route, as the site is within 100 m of the station.
2.3.20 As part of the development proposals new paving to footways, street tree re-planting and a new off-road cycleway to Great West Road would be provided. Uplighting to trees, benches and planters would also line the western edge of the site, along this section of footway. This would improve the experience for pedestrians and cyclists.

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\section*{3 Key Destination Route 2 - Homebase site to Syon Park and London Road Bus stops X and W}

\subsection*{3.1 Description}
3.1.1 Key Destination Route 2 connects the site with Syon Park and TfL bus stops \(X\) and \(W\) on London Road. The bus stops are directly adjacent to the entrance to Syon Park. The route follows a desire line from Syon Lane then left along London Road towards the destinations. Footways of varying quality are provided along the entire route. Insert \(\mathbf{3 . 1}\) shows the route from the site to Syon Park and TfL bus stops \(X\) and \(W\).

Insert 3.1: Key Destination Route 2


\subsection*{3.2 Photographs}
3.2.1 Pedestrian point of view photographs were taken every 150 m along the route. The pedestrian point of view photographs are presented in Inserts 3.2 to 3.8 .

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Insert 3.2: Route 2 - Photo Location 1


Insert 3.3: Route 2 - Photo Location 2


Insert 3.4: Route 2 - Photo Location 3


Insert 3.5: Route 2 - Photo Location 4


Insert 3.6: Route 2 - Photo Location 5


Insert 3.7: Route 2 - Photo Location 6


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Insert 3.8: Route 2 - Photo Location 7


\subsection*{3.3 Worst Journey Location}
3.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people along Key Destination Route 2 Location 3.
3.3.2 The photographs presented between Insert 3.3 and 3.4 above, show the characteristics of Location 3 , which is considered to be the most unpleasant of potentially unsafe for people on the street.
3.3.3 Location 3 is described below in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.
3.3.4 There was an alternative footpath running onto Brambles Close which converges with the Key Destination Route at Location 4. Syon Lane presented the most direct route to London Road however.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
3.3.5 Location 3 is the south-eastern section of Syon Lane, which leads onto London Road. This section of Syon Lane is less trafficked, away from the busier Spur Road, and in turn, the air quality is improved.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
3.3.6 While this section of Syon Lane is less trafficked, the footway is significantly narrower, meaning pedestrians are closer to the road. As a result, Location 3 feels louder and less pleasant as a pedestrian route. Improvements could be made by cutting back vegetation encroaching the footway and widening the path to allow an increased buffered between vehicle and pedestrian.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
3.3.7 There were a number of safety concerns on this section of the route. Firstly, the footway was very narrow, only safely allowing for single-file pedestrian flows. The footway was also very uneven and was difficult to walk on and vegetation encroached the path. There was no footway available on the western edge of the road. While there was street lighting present, the vegetation encroaching the footpath would likely diminish the effectiveness of these provisions. To improve safety, the footway would need to be resurfaced, vegetation cut back and the footway potentially widened.

\section*{Things to See and Do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
3.3.8 The route leading towards Syon Park and bus stops \(X\) and \(W\) is varied, with plenty of greenery evident throughout the journey. Location 3 could be improved with some soft landscaping, and removal of litter, and repair of the footway.

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\section*{4 Key Destination Route 3 - Homebase site to Brentford town centre I along proposed C9 Cycleway}

\subsection*{4.1 Description}
4.1.1 Key Destination Route 3 connects the site with Brentford town centre. The route follows a desire line from Syon Lane then left along London Road, which becomes Brentford High Street further along the route. Footways of varying quality are provided along the entire route. The proposed C9 cycle route would follow a desire line along London Road, towards Brentford town centre to the east.
4.1.2 Insert 4.1 shows the route from the site to Brentford town centre.

\section*{Insert 4.1: Key Destination Route 3}


\subsection*{4.2 Photographs}
4.2.1 Pedestrian point of view photographs were taken every 150 m along the route. The pedestrian point of view photographs are presented below between Inserts 4.2 and 4.12.

\title{
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}

Insert 4.2: Route 3 - Photo Location 1


Insert 4.3: Photo Location 2


Insert 4.4: Route 3 - Photo Location 3


Insert 4.5: Route 3 - Photo Location 4


Insert 4.6: Route 3 - Photo Location 5


Insert 4.7: Route 3 - Photo Location 6


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Insert 4.8: Route 3 - Photo Location 7


Insert 4.9: Route 3 - Photo Location 8


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Insert 4.10: Route 3 - Photo Location 9


Insert 4.11: Route 3 - Photo Location 10
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Insert 4.12: Route 3 - Photo Location 11


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\subsection*{4.3 Worst Journey Location}
4.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people along Key Destination Route 3 Location 6.
4.3.2 The most potential unsafe and unpleasant location on this route was Location 3, however as this location is discussed during the Key Destination Route 2 analysis, a different location has been chosen in this section.
4.3.3 The photographs presented at Insert 4.7 show the characteristics of Location 6 on Key Destination Route 3, which was considered the most unpleasant or unsafe, besides Location 3.
4.3.4 Location 6 is described below in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
4.3.5 Location 6 is not considered to have poor levels of air quality. While London Road is a major road, the presence of bus and cycle lanes, favouring public and active travel modes, meant the road was not heavily trafficked. Furthermore, footpaths were wide and vegetation lies both sides of the road, improving the pedestrian experience.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
4.3.6 The cycle lane design, in context to the pelican crossing, was deemed as potentially unsafe. The cycle lane merges with the footway at this section for approximately 15 m , crossing over a pedestrian signal-light crossing. To avoid cyclist/pedestrian collisions at this location, removing this section of cycle lane infrastructure would improve safety.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
4.3.7 The section of London Road/Brentford High Street on which Location 6 is located is not particularly noisy. The footways are wide throughout the majority of the route and trees often segregate the road and footway.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'

\section*{Royal \\ HaskoningDHV}
4.3.8 At Location 6 the pedestrian crossing safety could be improved by rearranging the cycle path, which currently unnecessarily merges with the footway. Besides this location, a number of crossing provisions are evident along this route.

\section*{Places to Stop and Rest}
'A lack of resting places can limit mobility for certain groups of people.'
4.3.9 While there aren't any places to stop and rest at Location 6, as the route nears Brentford town centre, a number of pleasant (Location 10) rest areas are present.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
4.3.10 The route is lined with trees on both sides of London Road, which provide plenty of shade and shelter for those walking this route.

\section*{People feel Relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
4.3.11 Improving the crossing safety at Location 6 and wider improvements to the footway at Location 3 would improve the route as a whole. Besides these two locations, the route was pleasant, providing wide footways and plenty of greenery throughout.

\section*{Things to See and Do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
4.3.12 Location 6 is in the direct vicinity of a few shops and cafes, and the number of amenities increases as the route nears Brentford town centre.

\section*{5 Key Destination Route 4 and 5 - Homebase site to Marlborough School}

\subsection*{5.1 Description}
5.1.1 Key Destination Route 4 and 5 both connect the site with Marlborough School. Two desire lines were identified one following Spur Road onto London Road, then turning right onto Darcy Road towards the school. The from Rothbury Gardens, over a pedestrian rail bridge onto Quakers Lane, which leads south onto London Road, then right onto Darcy Road towards the school.
5.1.2 Insert 5.1 shows the routes from the site to Marlborough School.

Insert 5.1: Key Destination Routes 4 and 5


\subsection*{5.2 Photographs}

Pedestrian point of view photographs were taken every 150 m along the chosen routes. The pedestrian point of view photographs are presented for below between Inserts 5.2 and 5.6 for Route 4 and Inserts 5.7 and 5.12 for Route 5. HaskoningDHV

Insert 5.2: Route 4 - Photo Location 1


Insert 5.3: Route 4 - Photo Location 2


Insert 5.4: Route 4 - Photo Location 3


Insert 5.5: Route 4 - Photo Location 4
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Insert 5.6: Route 4 - Photo Location 5


Insert 5.7: Route 5 - Photo Location 1


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Insert 5.8: Route 5 - Photo Location 2


Insert 5.9: Route 5 - Photo Location 3
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Insert 5.10: Route 5 - Photo Location 4


Insert 5.11: Route 5 - Photo Location 5


Insert 5.12: Route 5 - Photo Location 6


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\subsection*{5.3 Worst Journey Location}
5.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people walking to Marlborough School on either Key Destination Route 4 or 5 - Route 5, Location 4.
5.3.2 The photographs presented in Insert 5.9 and Insert 5.10 best show the characteristics of Location 4 on Key Destination Route 5, which is considered the most unpleasant or potentially unsafe for people walking to and from the school.
5.3.3 Location 5 is described in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
5.3.4 Location 4 is located away from any roads major roads, as the route passes through Rothbury Gardens, a quiet residential street and over a pedestrian rail bridge towards London Road. Therefore, air quality is not a significant issue at this location.

\section*{People Feel Safe}

\section*{'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'}
5.3.5 As the route leaves Rothbury Gardens, there is a narrow alleyway leading to the rail bridge, which leads towards London Road. While there is street lighting on the north side of the railway tracks, the surrounding vegetation may limit their effectiveness. Street lighting on Quaker's Lane also seemed to be obstructed by vegetation at the time of the site walk. This, alongside the graffiti and litter, made this location less pleasant. Improvements could be made by controlling the vegetation on the north and south of the railway tracks. This would help open the alley and improve street lighting.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
5.3.6 As this route is located away from busy roads, noise pollution is not an issue at this location. Syon Lane is provided by approximately 8 trains per hour, noise from rail connections is minimal.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'
5.3.7 Due to Location 4 being located away from the road, crossing is not an issue; Rothbury Gardens to the north is a quiet residential area and Quaker's Lane, on the south side of the railway line, does not allow vehicular access between 8:45-9:15 and 15:15-15:45 during school term time.

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\section*{Places to stop and rest}
'A lack of resting places can limit mobility for certain groups of people.'
5.3.8 There were not any places to stop and rest on either Route 4 or 5 . This is not seen as a major issue as the site is approximately 1 km from Marlborough School following either desire line.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
5.3.9 While Location 4 is located away from any vehicular traffic, this section of the route is not likely to allow pedestrians to feel relaxed. There was graffiti and litter present during the time of the visit. Furthermore, the alleyway to the north of the railway tracks was narrow and the vegetation was overgrown. The overall environment could be improved by cutting back the vegetation and cleaning the graffiti and litter at this location.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
5.3.10 Both routes from the site to the school are surrounded by greenery, particularly Route 5. Location 4 could be improved with inclusion of street art and control of vegetation in the alleyway. Some planting in this area would improve the overall environment on Route 5.

\section*{6 Key Destination Route 6 - Homebase site to Bus Stops CID, Proposed Golden Mile Station and Boston Manor Park.}

\subsection*{6.1 Description}
6.1.1 The sixth Key Destination Route connects the site with bus stops C/D, the proposed Golden Mile station and Boston Manor Park, which follows a desire line alongside Great West Road, provided by a footway and footbridge along its southern flank. Bus stops C/D are located adjacent to the site, along the A4. The proposed station and Boston Manor Park are located to the northeast of the site.
6.1.2 Insert 6.1 shows the route from the site to the proposed Golden Mile station.

Insert 6.1: Key Destination Route 6


\subsection*{6.2 Photographs}
6.2.1 Pedestrian point of view photographs were taken every 150 m along the chosen routes. The pedestrian point of view photographs are presented below between Inserts 6.2 and 6.10.

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Insert 6.2: Route 6- Photo Location 1


Insert 6.3: Route 6 - Photo Location 2


Insert 6.4: Route 6 - Photo Location 3


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Insert 6.5: Route 6 - Photo Location 4


Insert 6.6: Route 6 - Photo Location 5


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Insert 6.7: Route 6 - Photo Location 6


Insert 6.8: Route 6 - Photo Location 7


Insert 6.9: Route 6 - Photo Location 8


Insert 6.10: Route 6 - Photo Location 9


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\subsection*{6.3 Worst Journey Location}
6.3.1 TfL's Healthy Streets criteria suggests highlighting the most unpleasant or potentially unsafe location for people along each Key Destination Route. In the case of Route 6, the route is approximately 500 m , so an assessment of the entire route is possible.
6.3.2 Key Destination Route 6 is described in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
6.3.3 The route depicted above runs adjacent to Great West Road, a major arterial road running through Central London. It is unlikely that air quality could be improved without drastic changes to reduce traffic volumes through the area.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
6.3.4 The route follows Great West Road, which is a key route within Central London with significant volumes of vehicular and pedestrian flows and a number of overlooking buildings. As such, the route can be considered to feel safe. Furthermore, street lighting is provided along the route.
6.3.5 It is considered that people would not feel worried about road danger, due to the adequate provision of pedestrian footways, signalised crossing and footbridge directly adjacent to the proposed station.
6.3.6 As part of the proposed development, a new segregated cycle route which would run along the southern edge of the A4, adjacent to the site, would be introduced. This would improve the experience for cyclists along this section of the A4.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
6.3.7 Due to this route running directly alongside the heavily trafficked Great West Road, noise pollution was clearly evident. While it is unlikely traffic levels will decrease on this arterial road, the experience along this route could be improved by planting trees, segregating pedestrians from the carriageway, and taking advantage of the wide footways on either side of the road.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'

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6.3.8 Pedestrian crossings in the form of signalised crossings with suitable dropped kerbs and tactile paving are provided at the junction between Syon Lane and Great West Road, in close proximity to the site. A pedestrian footbridge is also provided directly adjacent to the proposed station.

\section*{Places to stop and rest}

\section*{'A lack of resting places can limit mobility for certain groups of people.'}
6.3.9 There were no places to stop and rest between the site and the proposed station, however, as the destination is located within 500 m of the site, it is not considered that the lack of resting places would severely hinder access to the site.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
6.3.10 There are no public places to take shelter within the vicinity of Route 6. Location 6, the location at which Golden Mile station is proposed, would offer the best opportunity for the addition of shelter and benches. It is considered that the lack of shelters would not overly inhibit access to the site from Golden Mile station due to the proximity to the site.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
6.3.11 Whilst the footways at this location is wide enough to allow for the free-flowing movement of people and cyclists, the lack of green space and presence of busy motor traffic along Great West Road is unlikely to encourage people to feel particularly relaxed. The Key Destination Route is located alongside a major arterial road means that it is unlikely traffic volume could be reduced to improve the pedestrian experience.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
6.3.12 The route could be made more appealing with additional planting. The width of the footway would allow for this addition, and this would also help segregate pedestrians from the busy carriageway.

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\section*{7 Key Destination Route 7 - Homebase site to Osterley Station I Local Place of Worship}

\subsection*{7.1 Description}
7.1.1 Key Destination Route 7 connects the site with Osterley station, which is serviced by the Piccadilly line. The desire line follows Great West Road, and segregated pedestrian and cycle paths are provided on both flanks. St Francis of Assisi Church is the place of worship nearest the site, which is located along the A4, Syon Park Gardens.
7.1.2 Insert 7.1 shows the Key Destination Route from the site to Osterley Station.

Insert 7.1: Key Destination Route 7


\subsection*{7.2 Photographs}
7.2.1 Pedestrian point of view photographs were taken at a number of locations along the route. The point of view photographs are presented in Inserts 7.2 to 7.13 .

\section*{Royal HaskoningDHV}

Insert 7.2: Route 7 - Photo Location 1


Insert 7.3: Route 7 - Photo Location 2


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Insert 7.4: Route 7 - Photo Location 3


Insert 7.5: Route 7 - Photo Location 4


Insert 7.6: Route 7 - Photo Location 5

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Insert 7.7: Route 7 - Photo Location 6


Insert 7.8: Route 7 - Photo Location 7

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Insert 7.9: Route 7 - Photo Location 8


Insert 7.10: Route 7 - Photo Location 9


Insert 7.11: Route 7 - Photo Location 10


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Insert 7.12: Route 7 - Photo Location 11


Insert 7.13: Route 7 - Photo Location 12


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\subsection*{7.3 Worst Journey Location}
7.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people along Key Destination Route 7. Location 11 was deemed the least pleasant location along this route.
7.3.2 It should also be noted that Location 2, the crossing of Northumberland Road is not provided with tactile paving and dropped kerbs.
7.3.3 The photograph presented in Insert 7.13 shows the characteristics of what was considered to be the most unpleasant or potentially unsafe for people on the street.
7.3.4 Location 11 is described below in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
7.3.5 Location 10 is directly adjacent to Great West Road, which is major multiple lane arterial road running from east to west. Despite the presence of plenty of greenery and wide footways on this route and at this location, it is unlikely air quality could be further improved unless drastic changes to reduce traffic flows were taken.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
7.3.6 The subway at this location allows pedestrians to cross Great West Road to access Osterley station. While this infrastructure provides safe crossing segregated from traffic, the underpass was relatively dark and narrow, and there was litter evident. This location would have felt safer for pedestrians if the environment surrounding was more well-kept and the underpass was illuminated effectively.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
7.3.7 Due to the underpass being located slightly away from the carriageway, the noise was not a significant issue. Furthermore, Key Destination Route 7, while directly alongside the busy Great West Road, is equipped with wide footway and cycleways on both flanks, meaning pedestrians are well segregated from the traffic.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'

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7.3.8 While the subway in Location 10 is the crossing facility associated with Osterley station, it acts as the only place to cross over to the station within approximately 400m. This crossing could be made more pleasant for pedestrians if the lighting was improved and graffiti and litter were removed.

\section*{Places to stop and rest}

\section*{'A lack of resting places can limit mobility for certain groups of people.'}
7.3.9 There were no places to stop and rest evident at this location. There were also very few places to stop on Route 7 as a whole. Due to the wide footways and presence of plenty of greenery, places to stop would be pleasant for those walking this route. Furthermore, benches could be installed nearby to the station to allow those walking this route to stop and rest.

\section*{Shelter and Shade}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
Location 10 being a subway naturally provides shade and shelter. In addition to this, this route is lined with trees and greenery on both flanks, which provide natural shade and shelter for those walking and cycling.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
7.3.10 While the subway is away from Great West Road, this location was dark and there was litter and graffiti present, meaning it is unlikely people would feel particularly relaxed. Pedestrians crossing over to the station at this location would feel more relaxed if lighting was improved, litter and graffiti removed. The graffiti could be replaced with some street art/mural to improve the local environment.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
7.3.11 During the time of the visit, there was litter and graffiti present, making this one of the least pleasant locations on this route. Alongside cleaning up the appearance, the addition of planting and street art would make this location far more attractive for pedestrians. This would be worthwhile, particularly as this is the only crossing to the station.

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\section*{8 Key Destination Route 8 - Homebase site to Sky Campus}

\subsection*{8.1 Description}
8.1.1 Key Destination Route 8 connects the site with Sky Campus, following a desire line along Syon Lane, and right along Grant Way. Footways are provided along the entire route. It should be noted that there were two options crossing Great West Road from the site, either a signal light crossing at the junction or via an underpass. Both routes will be taken into account.
8.1.2 Insert 8.1 shows the Key Destination Route from the site to the Sky Campus.

Insert 8.1: Key Destination Route 8


\subsection*{8.2 Photographs}
8.2.1 Pedestrian point of view photographs were taken at a number of locations along the route. The photographs are presented in Inserts 8.2 to 8.6.

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Insert 8.2: Route 8 - Photo Location 1


Insert 8.3: Route 8 - Photo Location 2


Insert 8.4: Route 8 - Photo Location 3


Insert 8.5: Route 8 - Photo Location 4


Insert 8.6: Route 8 - Photo Location 5


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\subsection*{8.3 Worst Journey Locations}
8.3.1 In line with TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe locations for people along Key Destination Route 8. As the route is only approximately 600 m , a full analysis of the route will be undertaken.
8.3.2 This route is described below in the context of the Healthy Streets indicators, in addition to suggestions for how the location could be improved for pedestrians and cyclists.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
8.3.3 The first section of the route was undertaken at the junction of Syon Lane and Great West Road. This major junction is heavily trafficked and is unlikely air quality could be improved without dramatic changes to traffic volumes. As the route follows Syon Lane, then right onto Grant Way traffic is greatly reduced, the speed limit is reduced to 20 mph and the footway is both segregated and lined with greenery. Consequently, this section of the route has good air quality.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
8.3.4 Noise pollution is far greater at Locations 1 and 2, as they are within close proximity of Great West Road. As the route follows Syon Lane and Grant Way, noise from traffic is greatly reduced. The section of Syon Lane close to the main junction, as seen in Location 3, is well provided with vegetation and the footway is also distanced from the carriageway.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'
8.3.5 The crossing of Great West Road from the site can be achieved either by signal light junction (Location 1) or through the underpass (Location 2). The pelican crossing is equipped with tactile paving and dropped kerbs. The underpass was well lit and clean, however, perhaps passing though this route could have been made more pleasant with repainting or installing street art.

\section*{Places to stop and rest}

\section*{'A lack of resting places can limit mobility for certain groups of people.'}
8.3.6 There were a number of places to stop and rest on this route. Location 3, north of Great West Road, had several benches to stop and rest on route to Sky Campus.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'

\section*{Royal \\ HaskoningDHV}
8.3.7 This route is well provided with shade and shelter. The underpass offers a sheltered crossing of Great West Road, and Syon Lane through to Grant Way is lined with a number of trees which provide natural shade and shelter for pedestrians.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
8.3.8 Locations 1 and 2 present the least pleasant sections of this route. Due to the heavily trafficked Great West Road, people are not likely to feel relaxed at these locations. Furthermore, the appearance of the underpass in Location 2 could be improved, perhaps with the addition of street art or repainting. The latter section of the route, along Syon Lane and right onto Grant Way is significantly less trafficked and is provided with places to rest, shelter and greenery.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
8.3.9 The majority of the route is pleasant, there are shops and cafés on the western flank of Syon Lane and plenty of greenery on both sides of the Syon Lane and Grant Way. Location 2, the underpass, could benefit from some planting or street art to make it more appealing for pedestrians walking that route.

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\section*{9 Key Destination Route 9 - Homebase site to proposed Bolder Academy}

\subsection*{9.1 Description}
9.1.1 Key Destination Route 9 connects the site with the proposed Bolder Academy, following a desire line along Syon Lane, then right along Macfarlane Lane. The route is approximately 800 m . Footways are provided along the entire route. It should be noted that there were two options crossing Great West Road from the site, either a signal light crossing at the junction or via an underpass. Both routes will be taken into account.

\subsection*{9.1.2 Insert 9.1 depicts the Key Destination Route from the site to the proposed Bolder Academy.}

Insert 9.1: Key Destination Route 9


\subsection*{9.2 Photographs}
9.2.1 Pedestrian point of view photographs were taken at a number of locations along the route. These photographs are presented in Insert 9.2 to Insert 9.6.

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Insert 9.2: Route 9 - Photo Location 1


Insert 9.3: Route 9 - Photo Location 2


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Insert 9.4: Route 9 - Photo Location 3


Insert 9.5: Route 9 - Photo Location 4


Insert 9.6: Route 9 - Photo Location 5


Insert 9.7: Route 9 - Photo Location 6


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\subsection*{9.3 Worst Journey Location}
9.3.1 TfL's Healthy Streets criteria suggest highlighting the most unpleasant or potentially unsafe location for people along Key Destination Route 9. The location deemed least pleasant or potentially unsafe was crossing of Great West Road, which is depicted in Location 1 and Location 2.
9.3.2 This route is described below in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
9.3.3 The first section of the route involves crossing Great West Road, a busy arterial road. It is unlikely that air quality in Locations 1 and 2 could be improved without drastic changes to reduce traffic volumes through the area.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
9.3.4 Location 2 depicts an underpass which allows pedestrians and cyclists to cross Great West Road, along the desire line safely. However, the overall environment at this location could be improved. The underpass could be made safer and more appealing by installing CCTV, allowing people to feel safer using this route. Furthermore, ensuring the lighting in this underpass is maintained, and repainting and/or adding street art to this location would improve the walking experience of this route.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
9.3.5 While the rest of Route 9 is relatively quiet, Locations 1 and 2, due to the close proximity to Great West Road, suffer from significant noise pollution from this busy route. It is unlikely this could be drastically improved without altering traffic volume through the area,

\section*{Easy to Cross}

Making streets easier to cross is important to encourage more walking and to connect communities.'
9.3.6 This route is equipped with two convenient crossing options of the Great West Road. The pelican crossing, adjacent to the site, is equipped with tactile paving and dropped kerbs, while the underpass also allows for ease of crossing. The underpass could be made a more attractive option with some maintenance, improved lighting and addition of planting and street art for example.

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\section*{Places to stop are rest}
'A lack of resting places can limit mobility for certain groups of people.'
9.3.7 There are a number of places to stop and rest on Route 9. As seen in Location 3, there are a number of benches provided along the northern flank of Syon Lane, which are also sufficiently segregated from the carriageway.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
9.3.8 The route has a number of areas where shade and shelter are available. Shade is provided naturally from trees lining both flanks of Syon Lane. Furthermore, the underpass also provides a sheltered crossing option across Great West Road.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
9.3.9 Route 9 is provided with wide footways, places to rest and plenty of greenery on both flanks of Syon Lane. Location 2 is perhaps where pedestrians would feel least relaxed. Improvements could be made by maintaining and improving lighting through the underpass and installing street art and planting to make people feel more relaxed through this section of the route.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
9.3.10 Location 2 could benefit from visual improvements and maintenance, to improve the overall pedestrian experience walking this route. The addition of street art/murals through the underpass, and/or planting would make this section of the route more appealing. Furthermore, ensuring the underpass is sufficiently lit at all times would make this location more attractive and interesting for walkers.

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\section*{10 Key Destination Route 10 - Homebase Site to Nishkam School}

\subsection*{10.1 Description}
10.1.1 Key Destination Route 10 connects the site with Nishkam School, following a desire line along Syon Lane. The route is approximately 950 m and footways are provided throughout.
10.1.2 Insert 10.1 shows the route from the site to Nishkam School.

Insert 10.1: Key Destination Route 10


\subsection*{10.2 Photographs}
10.2.1 Pedestrian point of view photographs were taken at a number of locations along the route. The photographs are presented in Inserts 10.2 to 10.8.

\section*{Royal HaskoningDHV}

Insert 10.2: Route 10 - Photo Location 1


Insert 10.3: Route 10 - Photo Location 2


Insert 10.4: Route 10 - Photo Location 3


Insert 10.5: Route 10 - Photo Location 4


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Insert 10.6: Route 10 - Photo Location 5


Insert 10.7: Route 10 - Photo Location 6


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Insert 10.8: Route 10 - Photo Location 7


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\subsection*{10.3 Worst Journey Location}
10.3.1 TfL's Healthy Streets criteria suggest highlighting the most unpleasant or potentially unsafe location for people along Key Destination Route 10. The location deemed least pleasant or potentially unsafe was crossing of Great West Road, which is depicted in Location 1 and Location 2.
10.3.2 This route is described below in context to suggestions for how the location could be improved for pedestrians and cyclists.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
10.3.3 The first section of the route involves crossing Great West Road, a busy arterial road. It is unlikely that air quality in Locations 1 and 2 could be improved without drastic changes to reduce traffic volumes through the area.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
10.3.4 Location 2 depicts an underpass which allows pedestrians and cyclists to cross Great West Road, along the desire line safely. However, the overall environment at this location could be improved. The underpass could be made safer and more appealing by installing CCTV, allowing people to feel safer using this route. Furthermore, ensuring the lighting in this underpass is maintained, and repainting and/or adding street art to this location would improve the walking experience of this route.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
10.3.5 While the rest of Route 10 is relatively quiet, Locations 1 and 2, due to the close proximity to Great West Road, suffer from significant noise pollution from this busy route. It is unlikely this could be drastically improved without altering traffic volume through the area,

\section*{Easy to Cross}

Making streets easier to cross is important to encourage more walking and to connect communities.'
10.3.6 This route is equipped with two convenient crossing options of the Great West Road. The pelican crossing, adjacent to the site, is equipped with tactile paving and dropped kerbs, while the underpass also allows for ease of crossing. The underpass could be made a more attractive option with some maintenance, improved lighting and addition of planting and street art for example.

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10.3.7 The section of the route closer to the school is provided with crossing facilities, including a zebra crossing, all of which are equipped with dropped kerbs and tactile paving.

\section*{Places to stop are rest}
'A lack of resting places can limit mobility for certain groups of people.'
10.3.8 There are a number of places to stop and rest on Route 10. As seen in Location 3, there are a number of benches provided along the northern flank of Syon Lane, which are also sufficiently segregated from the carriageway.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
10.3.9 The route has a number of areas where shade and shelter are available. Shade is provided naturally from trees lining both flanks of Syon Lane. Furthermore, the underpass also provides a sheltered crossing option across Great West Road.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
10.3.10 Route 9 is provided with wide footways, places to rest and plenty of greenery on both flanks of Syon Lane. Location 2 is perhaps where pedestrians would feel least relaxed. Improvements could be made by maintaining and improving lighting through the underpass and installing street art and planting to make people feel more relaxed through this section of the route.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
10.3.11 Location 2 could benefit from visual improvements and maintenance, to improve the overall pedestrian experience walking this route. The addition of street art/murals through the underpass, and/or planting would make this section of the route more appealing. Furthermore, ensuring the underpass is sufficiently lit at all times would make this location more attractive and interesting for walkers.
'A lack of resting places can limit mobility for certain groups of people.'
10.3.12 There are a number of places to stop and rest on Route 10. As seen in Location 3, there are a number of benches provided along the northern flank of Syon Lane, which are also sufficiently segregated from the carriageway.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'

\section*{Royal \\ HaskoningDHV}
10.3.13 The route has a number of areas where shade and shelter are available. Shade is provided naturally from trees lining both flanks of Syon Lane. Furthermore, the underpass also provides a sheltered crossing option across Great West Road.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
10.3.14 Route 10 is provided with wide footways, places to rest and plenty of greenery on both flanks of Syon Lane. Location 2 is perhaps where pedestrians would feel least relaxed. Improvements could be made by maintaining and improving lighting through the underpass and installing street art and planting to make people feel more relaxed through this section of the route.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
10.3.15 Location 2 could benefit from visual improvements and maintenance, to improve the overall pedestrian experience walking this route. The addition of street art/murals through the underpass, and/or planting would make this section of the route more appealing. Furthermore, ensuring the underpass is sufficiently lit at all times would make this location more attractive and interesting for walkers.

\section*{11 Key Destination Route 11 - Homebase Site to Osterley Park}

\subsection*{11.1 Description}
11.1.1 Key Destination Route 11 connects the site with Osterley Park. The route follows a desire line along Syon Lane north towards Osterley Park. Footways are provided along the entire route. The route from the site to the park is approximately 1.3 km .
11.1.2 Insert 11.1 shows the route from the site to Osterley Park.

Insert 11.1: Key Destination Route 11


\subsection*{11.2 Photographs}
11.2.1 Pedestrian point of view photographs were taken every 150 m along the route. The pedestrian point of view photographs are presented in Insert 11.2 to 11.10.

\section*{Royal HaskoningDHV}

Insert 11.2: Route 11 - Photo Location 1


Insert 11.3: Route 11 - Photo Location 2


Insert 11.4: Route 11 - Photo Location 3


Insert 11.5: Route 11 - Photo Location 4


\section*{Royal HaskoningDHV}

Insert 11.6: Route 11 - Photo Location 5


Insert 11.7: Route 11 - Photo Location 6


\section*{Royal HaskoningDHV}

Insert 11.8: Route 11- Photo Location 7


Insert 11.9: Route 11- Photo Location 8


Insert 11.10: Route 11-Photo Location 9


Royal
HaskoningDHV

\subsection*{11.3 Worst Journey Location}
11.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people walking to Osterley Park from the site.
11.3.2 As the least pleasant location on this route (Locations 1 and 2) have been discussed in previous sections, a wider assessment of the route will be undertaken.

\section*{Clean air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
11.3.3 The route follows a desire line along Syon Lane towards Osterley Park. Air quality was considered good on this route, as the route was not heavily trafficked and the 20 mph speed limit meant vehicles were not travelling too quickly. Furthermore, there was plenty of greenery present along both flanks of Syon Lane.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
11.3.4 The route was equipped with wide, well-maintained footways and plenty of good quality crossing facilities, as seen in Location 6. Vehicular traffic on Syon Lane is also limited to 20 mph at this section, allowing pedestrians to feel safer crossing. In addition, street lighting was provided throughout the pedestrian route.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
11.3.5 Due to the lower vehicle speeds on this section of Syon Lane, the noise was not a significant issue. The footways are generally wide along this route, which also allows for space between pedestrians and the road.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'
11.3.6 There are a number of good quality crossing facilities along this route. Between Locations 1-3 there numerous crossing facilities, including a zebra crossing. All crossings were equipped with tactile paving and dropped kerbs.

\section*{Places to stop and rest}
'A lack of resting places can limit mobility for certain groups of people.'

\section*{Royal \\ HaskoningDHV}
11.3.7 There were no places to stop and rest along this route. Benches could be provided between Locations 1-3 and/or Location 5-6, as the footways are wide and could facilitate areas to stop and rest. Furthermore, there is plenty of greenery present at these locations and the footways and road are relatively quiet. These factors would contribute to pleasant spaces to potentially stop and rest.

\section*{Shade and Shelter}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
11.3.8 Shade and shelter along this route are provided by trees lining both flanks of Syon Lane. The route is well shaded and would provide shelter in the event of adverse weather conditions.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
11.3.9 This section of Syon Lane was not too heavily trafficked and the footways provided for pedestrians were wide, allowing for free movement. There is also plenty of greenery present on route to Osterley Park. The footways and crossing facilities are also in good condition. As a result, people using this route are not likely to feel stressed.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
11.3.10 There is plenty of greenery present on both flanks of Syon Lane on route to Osterley Park. The addition of places to stop and rest along the route would be welcomed. Ensuring that vegetation lining the route doesn't become overgrown would keep the route attractive for walking and cycling.

\section*{Royal} HaskoningDHV

\section*{12 Key Destination Route 12 - Homebase Site to West Middlesex Hospital}

\subsection*{12.1 Description}
12.1.1 Key Destination Route 12 connects the site with West Middlesex Hospital. The route follows a desire line south along Syon Lane/ Spur Road, across the junction at London Road, then south along Twickenham Road towards the Hospital.
12.1.2 Insert \(\mathbf{1 2 . 1}\) provides a plan showing the desire line from the site to West Middlesex Hospital Insert 12.1: Key Destination Route 12


\subsection*{12.2 Photographs}
12.2.1 Pedestrian point of view photographs were taken every 150 m along the route. The pedestrian point of view photographs are presented in Insert 12.2 to Insert 12.9.

Insert 12.2: Route 12 - Photo Location 1 HaskoningDHV


Insert 12.3: Route 12 - Photo Location 2


Insert 12.4: Route 12 - Photo Location 3


Insert 12.5: Route 12 - Photo Location 4


\section*{Royal HaskoningDHV}

Insert 12.6: Route 12 - Photo Location 5


Insert 12.7: Route 12 - Photo Location 6


Insert 12.8: Route 12 - Photo Location 7


Insert 12.9: Route 12 - Photo Location 8


Royal
HaskoningDHV

\subsection*{12.3 Worst Journey Location}
12.3.1 In line with the TfL Healthy Streets criteria, the following section provides a detailed description of the most unpleasant or potentially unsafe location for people along Key Destination Route 12. Location 4 was deemed the least pleasant location along this route.
12.3.2 The photograph presented in Insert \(\mathbf{1 2 . 5}\) shows the characteristics of what was considered to be the most unpleasant or potentially unsafe for people on the street.
12.3.3 Location 4 is described below in the context of Healthy Streets indicators 3-10, in addition to suggestions for how the location could be improved for pedestrians.

\section*{Clean Air}
'Improving air quality delivers benefits for everyone and reduces unfair health inequalities.'
12.3.4 Location 4 is directly adjacent to London Road, which is a highly trafficked A-road running from east to west. Despite the presence of plenty of greenery and wide footways on this route and at this location, it is unlikely air quality could be further improved unless drastic changes to reduce traffic flows were taken.

\section*{People Feel Safe}
'The whole community should feel comfortable and safe on our streets at all times. People should not feel worried about road danger.'
12.3.5 The crossing at this location allows pedestrians to cross London Road, leading south towards West Middlesex Hospital. The central pedestrian island at this crossing is not equipped with tactile paving, which aid those with visual impairment cross the road safely.

\section*{Not Too Noisy}
'Reducing the noise impacts of traffic will directly benefit health and improve the ambience of our streets.'
12.3.6 Due to Location 4 being situated at the junction between London Road/Spur Road and Twickenham Road, there was significant flows of traffic, leading to noise pollution. In relation to this location it is unlikely any drastic improvements could be made.

\section*{Easy to Cross}
'Making streets easier to cross is important to encourage more walking and to connect communities.'
12.3.7 The crossing facilities at this location would be safer for those with visual impairment if the central pedestrian island was equipped with tactile paving.

\section*{Places to stop and rest}
'A lack of resting places can limit mobility for certain groups of people.'

\section*{Royal \\ HaskoningDHV}
12.3.8 There were no places to stop and rest evident at this location. There were also very few places to stop on Route 12 as a whole. Due to the wide footways and presence of plenty of greenery, places to stop could be instated along this route. Location 5 is one example where benches could be added, as well as some greenery, which would improve the environment along this route.

\section*{Shelter and Shade}
'Providing shade and shelter enables everybody to use our streets, whatever the weather.'
This route is lined with trees and greenery on both flanks, which provide natural shade and shelter for those walking and cycling. There are also a number of bus shelters along this route which could provide shelter.

\section*{People feel relaxed}
'More people will walk or cycle if our streets are not dominated by motor traffic, and if pavements and cycle paths are not overcrowded, dirty or in disrepair.'
12.3.9 Due to the busy nature of the junction in Location 4, it is unlikely pedestrians and cyclist would feel relaxed at this location. However, considering the route in its entirety, there is plenty of greenery on both flanks of the highway and the footways provided are level and wide. Additional areas to stop and rest, at Location 5 for instance, would enable pedestrians to feel more relaxed.

\section*{Things to see and do}
'People are more likely to use our streets when their journey is interesting and stimulating, with attractive views, buildings, planting and street art.'
12.3.10 There is plenty of greenery along the entirety of the route. Furthermore, there are some shops and amenities at the London Road junction. Potential areas for pedestrians to stop and rest along this route would improve the overall pedestrian experience.

\section*{Appendix - ATZ Maps}




\title{
Appendix E - Personal Injury Collision Data
}
\begin{tabular}{l} 
Date: 17 SEP 2019 13:45 Interpreted Listing \\
Page: 1 of 1 (summary) \\
Syon Lane Area Personal Injury Collisions \(\mathbf{6 0}\) mths to \(\mathbf{3 1}\) st December 2018 \\
\hline Summary of Accidents Selected \\
\hline Site Reference and Description (zero accident counts shown in bold) \\
\hline WX GIS AREA B25 Sylon Lane Area (P)
\end{tabular}

The description of how the accident occurred and the contributory factors are the reporting officer's opinion at the time of reporting and may not be the result of extensive investigation

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 B 408 (SUDDEN BRAKING)
V001 A 308 (FOLLOWING TOO CLOSE)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 707 (VISION AFFECTED - RAIN, SLEET, SNOW, OR FOG)
\begin{tabular}{|c|c|c|c|c|}
\hline 4 0114TX20037 FRI 24/01/14 06:41 & DARK GREAT WEST RD 100M SOUT & H WEST OF J/W SYON LANE & 25 LINK 125-146 & 516170 / 177330 \\
\hline POLICE - AT SCENE ROAD-DRY & WEATHER-FINE DUAL CWY & NO JUN IN 20M & NO XING FACILITY IN 50M & \\
\hline \multicolumn{5}{|l|}{PED RAN INTO PATH OF V1, CAUSING COLLISION.} \\
\hline CASUALTY 001 (001) (65 Yrs - M TW7) & ) SLIGHT PEDESTRIAN & & UNKNOWN FROM DRIVERS N/SIDE & \\
\hline \begin{tabular}{l}
VEHICLE 001 (000) M/C > 500CC \\
BT - NEGATIVE
\end{tabular} & (? Yrs - M UNKN) & GOING AHEAD OTHER & NE TO SW JNY PART OF WORK FRONT HIT FIRST & \\
\hline C001 B 806 (IMPAIRED BY ALCOHOL) & & C001 A 802 & AILED TO LOOK PROPERLY) & \\
\hline C001 A 808 (CARELESS/RECKLESS/IN & A HURRY) & V001 A 406 & FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED) & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 5 0114TX20048 TUE 28/01/14 13:34 & LIGHT GREAT WEST ROAD J/W BOS & TON MANOR ROAD. & & 25 & NODE 177 & & \multirow[t]{2}{*}{\(517200 / 177940\)} \\
\hline POLICE - AT SCENE ROAD-DRY & WEATHER-FINE DUAL CWY & \multirow[t]{2}{*}{CROSSROADS} & AUTO SIG & \multicolumn{3}{|l|}{PEDN PHASE AT ATS} & \\
\hline \multicolumn{7}{|l|}{V. 1 TURNED RIGHT, ACROSS PATH OF ON-COMING V. 2 CAUSING COLLISION.} & \\
\hline CASUALTY 001 (001) (53 Yrs - M SL6) & SLIGHT DRIVER/RIDER & & & & & & \\
\hline CASUALTY 002 (002) (39 Yrs - M UB6) & SLIGHT DRIVER/RIDER & & & & & & \\
\hline VEHICLE 001 (002) CAR BT - NEGATIVE & (53 Yrs - M SL6) & TURNING RIGHT & SE TO NE FRONT HI & COMM TO/FROM WORK IRST & & JCT MID & \\
\hline \begin{tabular}{l}
VEHICLE 002 (001) CAR \\
BT - NEGATIVE
\end{tabular} & (39 Yrs - M UB6 ) & GOING AHEAD OTHER & NW TO SE FRONT HI & COMM TO/FROM WORK IRST & & JCT MID & \\
\hline V001 A 403 (POOR TURN OR MANOEU & JVRE) & V001 A & 405 (FAILED TO & OOK PROPERLY) & & & \\
\hline V001 A 406 (FAILED TO JUDGE OTHER & R PERSON'S PATH OR SPEED) & V001 A & 602 (CARELESS & ECKLESS/IN A HURRY) & & & \\
\hline
\end{tabular}

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 405 (FAILED TO LOOK PROPERLY)
V001 A 602 (CARELESS/RECKLESS/IN A HURRY)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 B 606 (INEXPERIENCE OF DRIVING ON THE LEFT)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


C001 A 999 (OTHER FACTOR)


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


V001 A 408 (SUDDEN BRAKING)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{8}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} \\
\hline \multicolumn{3}{|l|}{45 0114TX20740 TUE 09/09/14 16:45} & \multicolumn{3}{|l|}{LIGHT NFL: A4 100M E J/W SYON LANE [GILLETTE CORNER]} & \multicolumn{2}{|r|}{25} \\
\hline \multicolumn{3}{|l|}{POLICE - AT SCENE ROAD-DRY} & WEATHER-FINE & DUAL CWY & NO JUN IN 20M & \multicolumn{2}{|r|}{NO XING FACILITY IN 50M} \\
\hline \multicolumn{8}{|l|}{ALL E/B; V1 OVEREACTED TO V2 [TRANSIT] BRAKING, V1 COLLIDED BACK OF V3 [CORSA], PUSHING V3 INTO BACK OF V4} \\
\hline \multicolumn{3}{|l|}{CASUALTY 001 (003) (29 Yrs - F W4 )} & \multicolumn{2}{|l|}{SLIGHT DRIVER/RIDER} & & \multirow[b]{3}{*}{W TO E FRONT} & \\
\hline CASUALT & 002 (001) & (7 Yrs - F W4) JOURNEY TO/F & \[
\begin{array}{r}
\text { SLIGHT } \\
\text { ROM SCHOOL }
\end{array}
\] & PASSENGER & \begin{tabular}{l}
FRONT SEAT \\
Sch Attended: N/K
\end{tabular} & & \\
\hline VEHICLE & 001 (003) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NEGATIVE }
\end{aligned}
\] & (28 Yrs - M UB3 & & CHANGE LANE TO RIGHT & & COMM TO/FROM WORK RST \\
\hline VEHICLE & 002 (001) & \[
\begin{aligned}
& \text { GDS }=<3.5 T \\
& \text { BT - NEGATIVE }
\end{aligned}
\] & (29 Yrs - M W12 & & GOING AHEAD OTHER & W TO E FRONT & COMM TO/FROM WORK RST \\
\hline VEHICLE & 003 (002) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NOT REQL }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (29 Yrs - F W4) } \\
& \text { ESTED }
\end{aligned}
\] & & GOING AHEAD OTHER & W TO E BACK HIT & COMM TO/FROM WORK ST \\
\hline VEHICLE & 004 (003) & \begin{tabular}{l}
MINIBUS \\
BT - NOT REQU
\end{tabular} & \[
\begin{aligned}
& \text { (54 Yrs - M TW4 } \\
& \text { ESTED }
\end{aligned}
\] & & SLOWING OR STOPPING & W TOE BACK HIT & JNY PART OF WORK ST \\
\hline
\end{tabular}

\title{
60 MTS TO DEC-2018 SORTED BY DATE
}

45 0114TX20740 TUE 09/09/14 16:45 LIGHT NFL: A4 100M E J/W SYON LANE [GILLETTE CORNER]
POLICE - AT SCENE ROAD-DRY WEATHER-FINE DUAL CWY NO JUN IN 20M
ALL E/B; V1 OVEREACTED TO V2 [TRANSIT] BRAKING, V1 COLLIDED BACK OF V3 [CORSA], PUSHING V3 INTO BACK OF V4

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


V002 A 405 (FAILED TO LOOK PROPERLY)
V002 A 308 (FOLLOWING TOO CLOSE)


\begin{tabular}{lll} 
Date: & 17 SEP 2019 13:45 & Interpreted Listing \\
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\end{tabular}

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 410 (LOSS OF CONTROL) V001 B 505 (ILLNESS OR DISABILITY, MENTAL OR PHYSICAL)
V001 A 409 (SWERVED)


V001 A 102 (DEPOSIT ON ROAD (EG. OIL, MUD, CHIPPINGS))
V001 A 410 (LOSS OF CONTROL)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



V001 A 405 (FAILED TO LOOK PROPERLY)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 601 (AGGRESSIVE DRIVING)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

\begin{tabular}{lll} 
Date: & 17 SEP 2019 13:45 & Interpreted Listing \\
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\end{tabular}

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 B 403 (POOR TURN OR MANOEUVRE)
V002 B 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE)
V002 B 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)



\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

\begin{tabular}{lll} 
Date: & 17 SEP 2019 13:45 & Interpreted Listing \\
Page: & 41 of 131 &
\end{tabular}

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE) V002 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)
V002 B 405 (FAILED TO LOOK PROPERLY) V002 A 601 (AGGRESSIVE DRIVING)


V001 A 403 (POOR TURN OR MANOEUVRE)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}
\begin{tabular}{|c|c|}
\hline WX GIS AREA B25 Sylon Lane Area (P) & 60 MTS TO DEC-2018 SORTED BY DATE \\
\hline
\end{tabular}

107 0115TX20663 MON 31/08/15 10:15 LIGHT WOOD LANE J/W GREAT WEST ROAD
NO XING FACILITY IN 50M
POLICE - AT SCENE ROAD-WET RAINING/HIGH WINDS SINGLE CWY CROSSROADS AUTO SIG NO XING
IN WET CONDITIONS N/B V1 MOVED OFF; CAS STANDING ON BOARD FELL OVER - [V1 STANDING PAX FELL ON WET DECK (C001)]
\begin{tabular}{lllllll} 
CASUALTY & 001 & \((001)\) & \((49 \mathrm{Yrs}-\mathrm{F}\) TW7) & SLIGHT & PASSENGER & STANDING ON PSV
\end{tabular}

C001 A 999 (OTHER FACTOR)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{108 0115TX20694 TUE 01/09/15 17:50} & \multicolumn{4}{|l|}{LIGHT NFL: GREAT WEST ROAD 64M SW J/W BOSTON MANOR ROAD} & 25 & LINK 146-177 & \(517150 / 177900\) \\
\hline \multicolumn{3}{|l|}{POLICE - AT SCENE ROAD-WET} & RAINING & DUAL CWY & \multicolumn{2}{|l|}{NO JUN IN 20M} & \multicolumn{2}{|l|}{NO XING FACILITY IN 50M} & \\
\hline \multicolumn{10}{|l|}{SW-BD V1 CHANGED LANE TO LEFT TO N/S LANE AND COLLIDED WITH V2 JOINING FROM LEFT} \\
\hline \multicolumn{3}{|l|}{CASUALTY 001 (002) (64 Yrs - W W7)} & \multicolumn{3}{|l|}{SLIGHT DRIVER/RIDER} & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & 001 (002) & CAR & (22 Yrs - F SW15) & & CHANGE LANE TO LEFT & NE TO SW & JNY PART OF WORK & & \\
\hline & \multicolumn{3}{|c|}{BT - NOT REQUESTED} & & & \multicolumn{2}{|l|}{N/S HIT FIRST} & & \\
\hline VEHICLE & 002 (001) & CAR & (64 Yrs - F W7 ) & & MOVING OFF & NE TO SW & & & \\
\hline & & BT - NOT REQU & ESTED & & & O/S HIT FIRST & & & \\
\hline
\end{tabular}

V001 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 308 (FOLLOWING TOO CLOSE)
V001 B 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 B 707 (VISION AFFECTED - RAIN, SLEET, SNOW, OR FOG)
V002 A 103 (SLIPPERY ROAD (DUE TO WEATHER))


V001 A 509 (DISTRACTION IN VEHICLE)

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 710 (VISION AFFECTED - VEHICLE BLIND SPOT)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE)
V002 A 305 (ILLEGAL TURN OR DIRECTION OF TRAVEL)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


403 (POOR TURN OR MANOEUVRE)


C001 A 808 (CARELESS/RECKLESS/IN A HURRY)
C001 A 803 (FAILED TO JUDGE VEHICLE'S PATH OR SPEED)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}
\begin{tabular}{|c|c|c|c|}
\hline \multicolumn{4}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} \\
\hline \multicolumn{4}{|l|}{127 0115TX20951 SUN 20/12/15 19:10 DARK SYON LANE} \\
\hline \multicolumn{4}{|l|}{POLICE - AT SCENE ROAD-DRY WEATHER-FIN} \\
\hline \multicolumn{4}{|l|}{INTOXICATED DRV V1 SWERVED ACROSS THE ROAD \& HIT} \\
\hline \multicolumn{4}{|l|}{CASUALTY 001 (001) (49 Yrs - M TW7) SLIGHT DRI} \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (002)} & CAR & (49 Yrs - M TW7 ) \\
\hline & & \multicolumn{2}{|l|}{BT - NOT REQUESTED} \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & CAR & \multirow[t]{2}{*}{(65 Yrs - F TW7 )} \\
\hline & & BT - POSITIVE & \\
\hline
\end{tabular}

HIT PARKED VEH
V002 A 501 (IMPAIRED BY ALCOHOL)
V002 A 409 (SWERVED)
V002 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)

POLICE - AT SCENE ROAD-DRY WEATHER-FINE SINGLE CWY CROSSROADS AUTO SIG PEDN PHASE AT ATS

PED CROSSING ROAD WHILE READING A MAP COLLIDED WITH V1 WHOSE VIEW WAS OBSTRUCTED BY OTHER TRAFFIC
CASUALTY 001 (001) (38 Yrs - M NW2) SLIGHT PEDESTRIAN CROSSING ROAD ON PED XING S BOUND FROM DRIVERS N/SIDE
VEHICLE 001 (000) CAR (56 Yrs - M SN16)
FRONT HIT FIRST

V001 A 701 (VISION AFFECTED - STATIONARY OR PARKED VEHICLE(S))
V001 A 405 (FAILED TO LOOK PROPERLY)
C001 A 803 (FAILED TO JUDGE VEHICLE'S PATH OR SPEED
\begin{tabular}{ll} 
& O/S HIT FIRST \\
CHANGE LANE TO RIGHT & SE TO NW \\
& FRONT HIT FIRST
\end{tabular}

60 MTS TO DEC-2018 SORTED BY DATE

NO XING FACILITY IN 50M

V002 A 410 (LOSS OF CONTROL)
V002 A 405 (FAILED TO LOOK PROPERLY)
V002 A 602 (CARELESS/RECKLESS/IN A HURRY)

POLICE - AT SCENE ROAD-DRY WEATHER-FINE NO XING FACILITY IN 50M

DRV V1 LOST CONTROL FOR REASONS UNKNOWN \& COLLIDED WITH A LAMP POST ON THE CENTRAL RESERVATION
CASUALTY 001 (001) (35 Yrs - M W3) SLIGHT DRIVER/RIDER
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[t]{3}{*}{VEHICLE} & 001 (000) & CAR & (35 Yrs - M W3 ) & GOING AHEAD OTHER \\
\hline & & \multicolumn{2}{|l|}{BT - NEGATIVE} & \\
\hline & & LEF & CENTRAL RES & \\
\hline \multicolumn{4}{|l|}{V001 A 410 (LOSS OF CONTROL)} & \\
\hline \multicolumn{4}{|l|}{V001 A 405 (FAILED TO LOOK PROPERLY)} & \\
\hline \multicolumn{4}{|l|}{V001 A 602 (CARELESS/RECKLESS/IN A HURRY)} & \\
\hline
\end{tabular}

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


C001 A 806 (IMPAIRED BY ALCOHOL)


W/B V1 PULLED IN TO STOP; CAS1 ON BOARD STOOD BUT MISSED HANDRAIL AND FELL - [ELDERLY PAX MISSED HANDGRIP ON RAIL, FELL (C001)]
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (95 Yrs - M W5 ) & SLIGHT & PASSENGER & STANDING ON PSV & & \\
\hline VEHICLE & 001 (000) & \(\mathrm{BUS} / \mathrm{COACH}\) & ( 47 Yrs - M & & SLOWING OR STOPPING & E TO W & JNY PART OF WORK \\
\hline & & BT - NOT REQUE & STED & & & DID NOT & \\
\hline
\end{tabular}

C001 A 999 (OTHER FACTOR)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 501 (IMPAIRED BY ALCOHOL)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{7}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} \\
\hline \multicolumn{7}{|l|}{137 0116TX20044 THU 21/01/16 13:12 LIGHT NFL: LONDON ROAD 32M SW J/W SPUR ROAD} \\
\hline \multicolumn{3}{|l|}{POLICE - OVER COU ROAD-DRY} & WEATHER-FINE & SINGLE CWY & NO JUN IN 20M & NO X \\
\hline \multicolumn{7}{|l|}{NE-BD V1 INTENDED LEFT TURN WAS SHUNTED WHEN HELD ON RED ATS} \\
\hline \multicolumn{7}{|l|}{CASUALTY 001 (001) (23 Yrs - TW7) SLIGHT DRIVER/RIDER} \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (002)} & & (23 Yrs - F TW7 ) & & \multirow[t]{2}{*}{TURNING LEFT} & \multirow[t]{2}{*}{BACK HIT FIRST} \\
\hline & & \multicolumn{2}{|l|}{BT - DRV NOT CONTACTED} & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & \multirow[t]{2}{*}{CAR
BT - DRV} & (? Yrs - M 1) & & \multirow[t]{2}{*}{GOING AHEAD OTHER} & SW TO NE \\
\hline & & & ONTACTED & & & FRONT HIT FIRST \\
\hline
\end{tabular}

V002 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)
V002 A 403 (POOR TURN OR MANOEUVRE)
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{138 0116TX20040 TUE 26/01/16 07:48} & \multicolumn{3}{|l|}{LIGHT HIGH STREET J/W ALEXANDRA ROAD} & \multicolumn{4}{|c|}{25 LINK 148-152} & \multirow[t]{2}{*}{\(517870 / 177480\)} \\
\hline POLICE - AT & SCENE ROA & OAD-DRY & WEATHER-FINE & SINGLE CWY & T/STAG JUN & GIVE WAY/UNCO & NO XING FACILITY IN 50M & & & \\
\hline \multicolumn{11}{|l|}{SW-BD V1 EDGED FORWARD TO TURN RIGHT; NE-BD V2 CYCLIST COLLIDED} \\
\hline CASUALTY & 001 (002) & ( 24 Yrs - M GU4 ) & ) SLIGHT & IDER & & & & & & \\
\hline VEHICLE & 001 (002) & \begin{tabular}{l}
TAXI \\
BT - NOT REQU
\end{tabular} & (46 Yrs - M UB2 )
ESTED & & TURNING RIGHT & NE TO NW N/S HIT FIR & JNY PART OF WORK T & & JCT MID & \\
\hline VEHICLE & 002 (001) & \begin{tabular}{l}
PEDAL CYCLE \\
BT - NOT APPLI
\end{tabular} & \begin{tabular}{l}
(24 Yrs - M GU4 ) \\
CABLE
\end{tabular} & & GOING AHEAD OTHER & SW TO NE FRONT HI & COMM TO/FROM WORK IRST & & JCT MID & \\
\hline
\end{tabular}

V001 B 405 (FAILED TO LOOK PROPERLY)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 602 (CARELESS/RECKLESS/IN A HURRY)
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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



V002 A 403 (POOR TURN OR MANOEUVRE)
V002 A 301 (DISOBEYED AUTOMATIC TRAFFIC SIGNAL)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 408 (SUDDEN BRAKING)

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}




\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 410 (LOSS OF CONTROL)


V002 A 405 (FAILED TO LOOK PROPERLY)
V002 A 602 (CARELESS/RECKLESS/IN A HURRY


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 605 (INEXPERIENCED OR LEARNER DRIVER/RIDER)
V002 A 405 (FAILED TO LOOK PROPERLY)


V002 A 405 (FAILED TO LOOK PROPERLY)

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE)
V002 A 405 (FAILED TO LOOK PROPERLY)


V001 A 308 (FOLLOWING TOO CLOSE)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



V001 A 403 (POOR TURN OR MANOEUVRE) V001 A 405 (FAILED TO LOOK PROPERLY)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



C001 B 808 (CARELESS/RECKLESS/IN A HURRY)
C001 A 802 (FAILED TO LOOK PROPERLY)

\begin{tabular}{lll} 
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\end{tabular}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 B 602 (CARELESS/RECKLESS/IN A HURRY)
V001 A 301 (DISOBEYED AUTOMATIC TRAFFIC SIGNAL)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 187 01160025310 SAT 22/10/16 15:13 & \multicolumn{3}{|l|}{LIGHT BOSTON MANOR ROAD 43M S OF J/W SOMERSET ROAD} & & 25 & LINK 148-151 & \(517600 / 177690\) \\
\hline POLICE - AT SCENE ROAD-DRY & WEATHER-FINE & SINGLE CWY & NO JUN IN 20M & ZEBRA & & & \\
\hline
\end{tabular}

V1 PULLED OUT OF A TURNING AND CARRIED ON AND COLLIDED WITH CROSSIG PED


V001 B 601 (AGGRESSIVE DRIVING)
V001 A 405 (FAILED TO LOOK PROPERLY)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE)

\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 405 (FAILED TO LOOK PROPERLY)
V002 B 405 (FAILED TO LOOK PROPERLY)


C001 B 999 (OTHER FACTOR)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)


V001 A 403 (POOR TURN OR MANOEUVRE)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 405 (FAILED TO LOOK PROPERLY)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{210 01170017292 TUE 07/02/17 19:45} & \multicolumn{2}{|l|}{DARK HALF ACRE J/W BEEHIVE PUB} & \multicolumn{2}{|l|}{\multirow[b]{2}{*}{T/STAG JUN AUTO SIG}} & 25 & NODE 148 & \multicolumn{2}{|r|}{\(517690 / 177420\)} \\
\hline \multicolumn{2}{|l|}{POLICE - AT SCENE R} & OAD-DRY & WEATHER-FINE & SINGLE CWY & & & NO XING FACILITY IN 50M & & & \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (002) & (19 Yrs - M N8) & \multicolumn{2}{|l|}{SLIGHT DRIVER/RIDER} & & & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & 001 (000) & CAR & (46 Yrs - M YO21) & & GOING AHEAD HELD UP & NTOE & JNY PART OF WORK & & JCT MID & \\
\hline & & \multicolumn{2}{|l|}{BT - NOT REQUESTED} & & & \multicolumn{2}{|l|}{FRONT HIT FIRST} & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & 002 (000) & \(\mathrm{M} / \mathrm{C}<=50 \mathrm{CC}\) & (19 Yrs - M N8) & & GOING AHEAD OTHER & NTOE & JNY PART OF WORK & & ENTERIN & G MAIN RD \\
\hline & & BT - NOT REQU & ESTED & & & FRONT & & & & \\
\hline
\end{tabular}

V001 A 401 (JUNCTION OVERSHOOT)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


C001 A 802 (FAILED TO LOOK PROPERLY)
C001 A 805 (DANGEROUS ACTION IN CARRIAGEWAY (EG PLAYING))


V001 B 408 (SUDDEN BRAKING)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}
\begin{tabular}{l}
\hline WX GIS AREA B25 Sylon Lane Area (P) \\
218 01170027226 WED 22/03/17 07:32 \\
LIGHT LONDON ROA \\
POLICE - AT SCENE ROAD-WET
\end{tabular} RAINING

V001 B 404 (FAILED TO SIGNAL/ MISLEADING SIGNAL)
V002 A 701 (VISION AFFECTED - STATIONARY OR PARKED VEHICLE(S))
V002 A 405 (FAILED TO LOOK PROPERLY)
\begin{tabular}{ll} 
TURNING RIGHT & N TO W COMM TO/FROM WORK \\
& FRONT HIT FIRST \\
& \\
OVERTAKE STAT VEH O/S & W TO E COMM TO/FROM WORK \\
& FRONT HIT FIRST
\end{tabular}

60 MTS TO DEC-2018 SORTED BY DATE


V001 A 410 (LOSS OF CONTROL)


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)
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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 405 (FAILED TO LOOK PROPERLY)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V002 A 403 (POOR TURN OR MANOEUVRE)


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V001 A 308 (FOLLOWING TOO CLOSE)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


C001 A 802 (FAILED TO LOOK PROPERLY)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{3}{|l|}{\multirow[t]{2}{*}{249 01170056042 TUE 15/08/17 15:54
POLICE - AT SCENE ROAD-DRY}} & LIGHT GREAT W & WEST ROAD J/W SYO & v GATE WAY & & 25 & LINK 146-177 & & 516510 / 177460 \\
\hline & & & WEATHER-FINE & DUAL CWY & OTHER JUN & GIVE WAY/UNCONT NO & 50M & & & \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline \multicolumn{5}{|l|}{CASUALTY 001 (001) (35 Yrs - W 5 ) SLIGHT DRIVER/RIDER} & & & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & PEDAL CYCLE & (35 Yrs - F W5 ) & & GOING AHEAD OTHER & E TO W & & & JCT APP & \\
\hline & & BT - NOT APPLI & CABLE & & & DID NOT IMPACT & & & & \\
\hline
\end{tabular}

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 503 (FATIGUE)

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V001 A 405 (FAILED TO LOOK PROPERLY)
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 255 01170062354 TUE 03/10/17 15:00 & \multicolumn{3}{|l|}{LIGHT TWICKENHAM ROAD J/W LONDON ROAD} & \multirow[b]{2}{*}{AUTO SIG} & 25 & NODE 142 & \multirow[t]{2}{*}{516510 / 176820} \\
\hline POLICE - AT SCENE ROAD-DRY & WEATHER-OTHER & DUAL CWY & CROSSROADS & & \multirow[t]{2}{*}{NO XING FACILITY IN 50M} & & \\
\hline NOT KNOWN HOW COLLISION OCCURR & RED & & & & & & \\
\hline CASUALTY 001 (001) (2 Yrs - M TW5 ) & SLIGHT PAS & GER & SEATED ON PSV & & & & \\
\hline \begin{tabular}{l}
VEHICLE 001 (000) BUS/COACH \\
BT - NOT REQUE
\end{tabular} & (56 Yrs - M KT19) UESTED & & TURNING RIGHT & E TO W DID NO & JNY PART OF WORK ACT & & LEAVING MAIN RD \\
\hline
\end{tabular}

V001 B 999 (OTHER FACTOR)


C001 A 801 (CROSSED ROAD MASKED BY STATIONARY OR PARKED VEHICLE)

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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 701 (VISION AFFECTED - STATIONARY OR PARKED VEHICLE(S))


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 403 (POOR TURN OR MANOEUVRE)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 B 403 (POOR TURN OR MANOEUVRE)


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V002 A 410 (LOSS OF CONTROL)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



V001 A 405 (FAILED TO LOOK PROPERLY)
V001 B 701 (VISION AFFECTED - STATIONARY OR PARKED VEHICLE(S))
V002 A 602 (CARELESS/RECKLESS/IN A HURRY)

V002 A 405 (FAILED TO LOOK PROPERLY)
V002 B 701 (VISION AFFECTED - STATIONARY OR PARKED VEHICLE(S))
V001 A 403 (POOR TURN OR MANOEUVRE)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 510 (DISTRACTION OUTSIDE VEHICLE)
V001 B 405 (FAILED TO LOOK PROPERLY)


V001 A 403 (POOR TURN OR MANOEUVRE)
V001 B 602 (CARELESS/RECKLESS/IN A HURRY)
C001 A 804 (WRONG USE OF PEDESTRIAN CROSSING FACILITY)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


V001 A 602 (CARELESS/RECKLESS/IN A HURRY)


V001 B 405 (FAILED TO LOOK PROPERLY)


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V001 A 410 (LOSS OF CONTROL)


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V002 B 602 (CARELESS/RECKLESS/IN A HURRY)
V002 B 509 (DISTRACTION IN VEHICLE)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}

\begin{tabular}{ll} 
SLOWING OR STOPPING & \begin{tabular}{l} 
STO N \\
\\
\\
BACK HIT FIRST
\end{tabular} \\
& \\
GOING AHEAD OTHER & \begin{tabular}{l} 
S TO N JNY PART OF WORK \\
\\
\\
\\
FRONT HIT FIRST
\end{tabular}
\end{tabular}

V001 A 108 (ROAD LAYOUT (EG BEND, HILL, NARROW CARRIAGEWAY))


C002 A 802 (FAILED TO LOOK PROPERLY)
C003 A 802 (FAILED TO LOOK PROPERLY)


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\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}


\section*{Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018}



Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
Summary of Accidents Selected
\begin{tabular}{|lll}
\hline Site Reference and Description (zero accident counts shown in bold) & Accidents \\
\hline WX GIS AREA B25 Sylon Lane Area (P) & 320 \\
\hline
\end{tabular}

The description of how the accident occurred and the contributory factors are the reporting officer's opinion at the time of reporting and may not be the result of extensive investigation

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & \multicolumn{9}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline \begin{tabular}{l}
Accident Reference \\
Day \\
Date \\
Time \\
Light Conditions \\
Road Surface \\
Severity
\end{tabular} & \(\quad 51\)
0114TX20844
FRIDAY
\(24 / 10 / 2014\)
\(14: 16\)
LIGHT
DRY
SLIGHT & \(\quad 52\)
0114TX20838
SATURDAY
\(01 / 11 / 2014\)
14:01
LIGHT
DRY
SLIGHT & \(\quad 53\)
0114TX20920
SATURDAY
\(08 / 11 / 2014\)
\(18: 28\)
DARK
WET
SLIGHT & \(\quad 54\)
0114TX20903
TUESDAY
\(11 / 11 / 2014\)
\(14: 41\)
LIGHT
DRY
SERIOUS & \(\quad 155\)
0114TX20893
SATURDAY
15/11/2014
\(07: 55\)
LIGHT
WET
SLIGHT & \begin{tabular}{l}
\multicolumn{1}{c}{56} \\
0114TX20917 \\
TUESDAY \\
\(18 / 11 / 2014\) \\
\(14: 30\) \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} & \begin{tabular}{l}
0114TX20902 MONDAY \\
24/11/2014 \\
22:00 \\
DARK \\
DRY \\
SLIGHT
\end{tabular} & \(\quad 1 \quad 58\)
0114TX29005
FRIDAY
\(12 / 12 / 2014\)
\(16: 25\)
LIGHT
WET
SLIGHT & \begin{tabular}{l}
\multicolumn{1}{c}{59} \\
0114 TX21001 \\
WEDNESDAY \\
\(17 / 12 / 2014\) \\
\(17: 35\) \\
DARK \\
WET \\
SLIGHT
\end{tabular} & \begin{tabular}{l}
60 \\
0114TX20992 MONDAY \\
22/12/2014 \\
14:10 \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} \\
\hline Pedestrian Location & & & & & & & & X & X & \\
\hline \begin{tabular}{l}
Contributory \\
Factors \\
(* denotes pre 2005)
\end{tabular} & \[
\begin{array}{ll}
405 & \text { V001 A } \\
602 & \text { V001 A }
\end{array}
\] & \begin{tabular}{ll}
403 & V002 A \\
601 & V002 B \\
602 & V002 B
\end{tabular} & \begin{tabular}{ll}
403 & V001 A \\
406 & V001 A \\
405 & V001 A
\end{tabular} & \begin{tabular}{ll}
410 & V001 A \\
505 & V001 B \\
409 & V001 A
\end{tabular} & \[
\begin{aligned}
& 102 \text { V001 A } \\
& 410 \text { V001 A }
\end{aligned}
\] & \begin{tabular}{ll}
403 & V001 A \\
405 & V001 B \\
405 & V002 B \\
406 & V002 B
\end{tabular} & \[
\begin{array}{ll}
509 & \text { V001 A } \\
405 & \text { V001 A } \\
308 & \text { V001 B }
\end{array}
\] & \[
\begin{array}{ll}
405 & \text { V001 A } \\
707 & \text { V001 B }
\end{array}
\] & \[
\begin{array}{lll}
809 & \text { C002 B } \\
405 & \text { V001 B } \\
406 & \text { V001 B }
\end{array}
\] & \[
405 \text { V001 A }
\] \\
\hline Easting/Northing & 516760176970 & 516910177050 & 516070177460 & 514950177190 & 517870177480 & 517490177350 & 516213177350 & 516430177220 & 516010177470 & 515930177310 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & & & & & & & \multicolumn{3}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline \begin{tabular}{l}
Accident Reference \\
Day \\
Date \\
Time \\
Light Conditions \\
Road Surface \\
Severity
\end{tabular} & \begin{tabular}{l}
71 \\
0115TX20072 FRIDAY \\
06/02/2015 \\
13:38 \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} & \(\quad 72\)
0115TX20099
SATURDAY
07/02/2015
15:48
LIGHT
DRY
SERIOUS & \(\quad 73\)
0115TD00028
SUNDAY
08/02/2015
04:57
DARK
DRY
FATAL & \(\quad \mathbf{7 4}\)
0115TX20121
THURSDAY
12/02/2015
16:45
LIGHT
DRY
SLIGHT & \(\quad 75\)
0115TX20104
TUESDAY
17/02/2015
17:30
LIGHT
DRY
SLIGHT & \begin{tabular}{l}
\multicolumn{1}{c}{76} \\
0115TX20135 \\
TUESDAY \\
17/02/2015 \\
13:05 \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} & \(\quad 77\)
0115TX20109
THURSDAY
19/02/2015
15:15
LIGHT
WET
SLIGHT & \(\quad 78\)
0115TX20138
TUESDAY
24/02/2015
\(08: 40\)
LIGHT
DRY
SLIGHT & \(\quad 79\)
0115TX20210
TUESDAY
10/03/2015
20:20
DARK
DRY
SLIGHT & \begin{tabular}{l}
\multicolumn{1}{c}{80} \\
0115TX20177 \\
WEDNESDAY \\
\(18 / 03 / 2015\) \\
\(19: 34\) \\
DARK \\
DRY \\
SLIGHT
\end{tabular} \\
\hline Pedestrian Location & & 0 & 50M & & & & & & & \\
\hline \begin{tabular}{l}
Contributory \\
Factors \\
(* denotes pre 2005)
\end{tabular} & \[
\begin{array}{ll}
406 & \text { V002 A } \\
403 & \text { V002 A } \\
405 & \text { V002 A }
\end{array}
\] & \[
\begin{array}{ll}
803 & \text { C001 A } \\
806 & \text { C001 A } \\
808 & \text { C001 B }
\end{array}
\] & \begin{tabular}{ll}
305 & V001 A \\
602 & V001 A \\
601 & V001 B \\
802 & C001 A \\
806 & C001 B
\end{tabular} & \[
\begin{array}{lll}
602 & \text { V001 B } \\
408 & \text { V001 A } \\
406 & \text { V002 B }
\end{array}
\] & \[
\begin{array}{ll}
405 & \text { V001 A } \\
305 & \text { V001 B }
\end{array}
\] & \[
\begin{array}{lll}
701 & \text { V001 B } \\
405 & \text { V001 } & \text { B } \\
603 & \text { V001 } & B
\end{array}
\] & \begin{tabular}{ll}
406 & V001 A \\
403 & V001 A
\end{tabular} & \[
\begin{array}{lll}
403 & \text { V002 B } \\
406 & \text { V002 B }
\end{array}
\] & \[
\begin{array}{ll}
406 & \text { V002 A } \\
403 & \text { V001 B }
\end{array}
\] & \[
406 \text { V001 A }
\] \\
\hline Easting/Northing & 516510176840 & 516330177390 & 515610177270 & 516240176700 & 516520176850 & 516260177370 & 517190177940 & 515590177280 & 517360177290 & 516770177630 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & \multicolumn{9}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline \begin{tabular}{l}
Accident Reference \\
Day \\
Date \\
Time \\
Light Conditions \\
Road Surface \\
Severity
\end{tabular} & \begin{tabular}{l}
101 \\
0115TX20488 \\
THURSDAY \\
09/07/2015 \\
09:15 \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} & \(\quad 102\)
0115TX20496
THURSDAY
09/07/2015
10:40
LIGHT
DRY
SLIGHT & \(\quad 103\)
0115TX20529
FRIDAY
17/07/2015
11:00
LIGHT
DRY
SLIGHT & \(\quad 104\)
0115TX20536
TUESDAY
21/07/2015
18:39
LIGHT
DRY
SLIGHT & \(\quad 105\)
0115TX20576
THURSDAY
06/08/2015
16:30
LIGHT
DRY
SLIGHT & \(\quad 106\)
0115TX20614
FRIDAY
07/08/2015
14:24
LIGHT
DRY
SLIGHT & \(\quad 107\)
0115TX20663
MONDAY
\(31 / 08 / 2015\)
10:15
LIGHT
WET
SLIGHT & \(\quad 108\)
0115TX20694
TUESDAY
01/09/2015
17:50
LIGHT
WET
SLIGHT & \begin{tabular}{l}
\multicolumn{1}{c}{109} \\
0115TX20751 \\
MONDAY \\
07/09/2015 \\
14:50 \\
LIGHT \\
DRY \\
SLIGHT
\end{tabular} & \begin{tabular}{l}
\multicolumn{1}{c}{110} \\
0115TX20634 \\
TUESDAY \\
08/09/2015 \\
19:05 \\
DARK \\
DRY \\
SLIGHT
\end{tabular} \\
\hline Pedestrian Location & & 0 & & & & & & & & \\
\hline Contributory Factors (* denotes pre 2005) & \begin{tabular}{ll}
403 & V002 A \\
406 & V002 A \\
405 & V002 B \\
601 & V002 A
\end{tabular} & 403 V001 A & \[
\begin{array}{ll}
403 & \text { V002 A } \\
406 & \text { V002 A }
\end{array}
\] & \[
\begin{array}{cc}
701 & \text { V002 B } \\
602 & \text { V002 B }
\end{array}
\] & \begin{tabular}{l}
403 V002 A \\
406 V002 A \\
602 V002 A
\end{tabular} & \begin{tabular}{l}
405 V001 A \\
308 V001 A \\
406 V001 A
\end{tabular} & \[
999 \mathrm{C} 001 \mathrm{~A}
\] & \[
406 \text { V001 A }
\] & \[
\begin{array}{ll}
403 & \text { V002 A } \\
406 & \text { V002 A }
\end{array}
\] & \[
\begin{array}{ll}
308 & \text { V001 A } \\
406 & \text { V001 B }
\end{array}
\] \\
\hline Easting/Northing & 516490177440 & 515460177950 & 516520177500 & 517160177220 & 517210177930 & 517180177930 & 515590177250 & 517150177900 & 516250177370 & 515560177280 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & & & & & & & \multicolumn{3}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline & 111 & 112 & 113 & 114 & 115 & 116 & 117 & 118 & 119 & 120 \\
\hline Accident Reference & 0115TX20710 & 0115TX20714 & 0115TX20676 & 0115TX20733 & 0115TX20770 & 0115TX20736 & 0115TX20749 & 0115TX20801 & 0115TX20783 & 0115TX20798 \\
\hline Day & THURSDAY & TUESDAY & MONDAY & WEDNESDAY & SUNDAY & MONDAY & TUESDAY & SATURDAY & SUNDAY & SATURDAY \\
\hline Date & 10/09/2015 & 15/09/2015 & 21/09/2015 & 23/09/2015 & 04/10/2015 & 05/10/2015 & 06/10/2015 & 10/10/2015 & 11/10/2015 & 17/10/2015 \\
\hline Time & 14:15 & 07:05 & 18:05 & 13:20 & 14:03 & 21:28 & 16:50 & 11:50 & 17:09 & 14:47 \\
\hline Light Conditions & LIGHT & LIGHT & DARK & LIGHT & LIGHT & DARK & LIGHT & LIGHT & LIGHT & LIGHT \\
\hline Road Surface & DRY & DRY & WET & DRY & DRY & DRY & WET & DRY & DRY & DRY \\
\hline Severity & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT \\
\hline Conflict & & & & & & & & & & \\
\hline \multirow[t]{2}{*}{Pedestrian Location Contributory} & & & & & 0 & & & & & \\
\hline & 403 V002 A & 403 V002 A & 707 V002 B & 509 V001 A & 710 V001 A & 904 V 001 A & 403 V002 A & 403 V002 A & 301 V001 B & 403 V002 A \\
\hline \multirow[t]{4}{*}{Factors (* denotes pre 2005)} & 406 V002 A & 406 V002 A & 103 V002 A & & & & 406 V002 B & 305 V002 A & 602 V 001 B & \\
\hline & & 605 V002 A & & & & & & & 405 V002 B & \\
\hline & & & & & & & & & 406 V002 B & \\
\hline & & & & & & & & & 602 V002 B & \\
\hline Easting/Northing & 517520177360 & 516130177420 & 515540177270 & 515550177280 & 514830177240 & 516170177410 & 514790177400 & 516510176840 & 516260177370 & 516090177470 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & \multicolumn{9}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline & 121 & 122 & 123 & 124 & 125 & 126 & 127 & 128 & 129 & 130 \\
\hline Accident Reference & 0115TX20923 & 0115 XX20877 & 0115 TX20903 & 0115TX20928 & 0115 TX20972 & 0115TX20989 & 0115 TX20951 & 0115TX20949 & 0115 TX20991 & \(0116 T X 20202\) \\
\hline Day & FRIDAY & SATURDAY & TUESDAY & TUESDAY & TUESDAY & TUESDAY & SUNDAY & MONDAY & THURSDAY & FRIDAY \\
\hline Date & 06/11/2015 & 21/11/2015 & 24/11/2015 & 24/11/2015 & 15/12/2015 & 15/12/2015 & 20/12/2015 & 21/12/2015 & 24/12/2015 & 08/01/2016 \\
\hline Time & 09:30 & 12:51 & 12:05 & 14:00 & 17:15 & 20:25 & 19:10 & 14:45 & 20:15 & 18:55 \\
\hline Light Conditions & LIGHT & LIGHT & LIGHT & LIGHT & DARK & DARK & DARK & LIGHT & DARK & DARK \\
\hline Road Surface & WET & DRY & WET & DRY & WET & WET & DRY & DRY & DRY & DRY \\
\hline Severity & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT \\
\hline \multicolumn{11}{|l|}{Conflict} \\
\hline Pedestrian Location & X & & & & & & & X & & 50M \\
\hline \multirow[t]{5}{*}{Contributory Factors (* denotes pre 2005)} & 808 C001 A & 308 V002 A & 103 V001 A & 308 V002 A & 802 U00C A & 403 V001 A & 501 V002 A & 701 V001 A & 410 V001 A & 806 C001 A \\
\hline & 803 C 001 A & 405 V002 A & 408 V001 A & 602 V 002 A & 803 U00C A & 406 V001 A & 410 V002 A & 407 V001 A & 509 V001 B & \\
\hline & & 406 V002 A & 410 V001 A & & 808 U00C A & & 409 V002 A & 405 V001 A & 405 V001 A & \\
\hline & & 602 V002 A & 405 V001 A & & 103 V001 A & & 405 V002 A & 804 C 001 A & 503 V001 B & \\
\hline & & 903 V001 A & 602 V001 A & & 408 V001 A & & 406 V002 A & 803 C001 A & 602 V 001 A & \\
\hline Easting/Northing & 516410177230 & 516260177370 & 515140177540 & 516230177360 & 517160177220 & 516480177170 & 515690177730 & 514860177160 & 516080177320 & 515580177290 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


Stick Diagram
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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & & & & & & & \multicolumn{3}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline & 211 & 212 & 213 & 214 & 215 & 216 & 217 & 218 & 219 & 220 \\
\hline Accident Reference & 01170018403 & 01170019087 & 01170023275 & 01170023820 & 01170024228 & 01170025359 & 01170025528 & 01170027226 & 01170028056 & 01170028811 \\
\hline Day & TUESDAY & FRIDAY & MONDAY & TUESDAY & THURSDAY & WEDNESDAY & WEDNESDAY & WEDNESDAY & WEDNESDAY & THURSDAY \\
\hline Date & 14/02/2017 & 17/02/2017 & 06/03/2017 & 07/03/2017 & 09/03/2017 & 15/03/2017 & 15/03/2017 & 22/03/2017 & 22/03/2017 & 23/03/2017 \\
\hline Time & 22:55 & 09:00 & 16:48 & 15:40 & 07:33 & 08:20 & 18:00 & 07:32 & 19:01 & 16:30 \\
\hline Light Conditions & DARK & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & DARK & LIGHT \\
\hline Road Surface & DRY & DRY & DRY & DRY & DRY & DRY & DRY & WET & DRY & UNKN (S/R) \\
\hline Severity & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT \\
\hline Conflict & & & & & & & & & & \\
\hline \multirow[t]{2}{*}{Pedestrian Location Contributory} & & & & & 0 & 0 & & & & \\
\hline & 201 V001 B & 706 V001 A & 403 V001 A & 405 V001 A & 802 C 001 A & 408 V001 B & 403 V002 B & 404 V001 B & 410 V001 A & \\
\hline \multirow[t]{5}{*}{Factors (* denotes pre 2005)} & 406 V001 A & 406 V002 B & 405 V001 A & & 805 C 001 A & & 409 V001 A & 701 V001 A & & \\
\hline & & 405 V001 A & & & & & & 701 V002 A & & \\
\hline & & & & & & & & 405 V001 A & & \\
\hline & & & & & & & & 405 V002 A & & \\
\hline & 516300177380 & 516070177450 & 515830177570 & 517640177400 & 514450177010 & 517030177160 & 515820177570 & 602 V 002 B
516060176640 & 517480177340 & 517220177260 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{WX GIS AREA B25 Sylon Lane Area (P)} & & & & & & & \multicolumn{3}{|r|}{60 MTS TO DEC-2018 SORTED BY DATE} \\
\hline & 271 & 272 & 273 & 274 & 275 & 276 & 277 & 278 & 279 & 280 \\
\hline Accident Reference & 01180087389 & 01180090278 & 01180090820 & 01180092761 & 01180094001 & 01180094798 & 01180096095 & 01180097295 & 01180098554 & 01180098726 \\
\hline Day & FRIDAY & WEDNESDAY & SATURDAY & MONDAY & SUNDAY & THURSDAY & TUESDAY & TUESDAY & TUESDAY & TUESDAY \\
\hline Date & 02/02/2018 & 14/02/2018 & 17/02/2018 & 26/02/2018 & 04/03/2018 & 08/03/2018 & 13/03/2018 & 20/03/2018 & 27/03/2018 & 27/03/2018 \\
\hline Time & 07:39 & 23:02 & 12:10 & 23:08 & 16:24 & 07:45 & 13:50 & 16:15 & 09:10 & 22:20 \\
\hline Light Conditions & LIGHT & DARK & LIGHT & DARK & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & DARK \\
\hline Road Surface & DRY & WET & DRY & DRY & DRY & DRY & DRY & DRY & WET & DRY \\
\hline Severity & SLIGHT & SLIGHT & SERIOUS & SERIOUS & SLIGHT & SLIGHT & SERIOUS & SLIGHT & SLIGHT & SERIOUS \\
\hline Conflict & & & & & & & & & & \\
\hline \multirow[t]{2}{*}{Pedestrian Location Contributory} & & & X & \multirow[t]{2}{*}{} & \multirow{6}{*}{\(\begin{array}{ll}403 & \text { V002 A } \\ 901 & \text { V002 A }\end{array}\)} & 0 & & & & \\
\hline & 108 V002 A & 405 V001 A & 405 V001 B & & & 706 V001 A & 405 V001 A & 403 V001 A & 308 V001 B & 602 V001 A \\
\hline Factors & 405 V002 A & 306 V001 A & & 403 V002 A & & 801 C001 A & 405 V002 A & & 406 V001 B & 305 V001 A \\
\hline (* denotes pre 2005) & 408 V002 A & 501 V001 A & & 301 V002 B & & & 701 V001 B & & & \\
\hline & & & & 301 V001 B & & & 701 V002 B & & & \\
\hline & & & & 602 Vo02 B & & & 403 V001 A & & & \\
\hline Easting/Northing & 517351177293 & 516270177340 & 517270177290 & 514870177160 & 514860177150 & 516540177510 & 517640177400 & 516480177180 & 517200177940 & 517240177270 \\
\hline
\end{tabular}

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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018


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Syon Lane Area Personal Injury Collisions 60 mths to 31st December 2018



\section*{London Rd Area Personal Injury Collisions 60 mths to end of May 2019 (Provisional)}

SUMMARY OF COLLISIONS SELECTED
SITE REFERENCE AND DESCRIPTION
TOPIC BASED QUERY

DATE PERIOD

THE DESCRIPTION OF HOW THE COLLISION OCCURRED AND THE CONTRIBUTORY FACTORS ARE THE REPORTING OFFICER'S OPINION AT THE TIME OF REPORTING AND MAY NOT BE THE RESULT OF EXTENSIVE investigation
\begin{tabular}{lll} 
WEATHER- & SINGLE CWY NO JUN IN & N/A \\
FINE & & 20 M
\end{tabular}

LINK 137-142

V1 STOPPPED AT ZEBRA CROSSING. V2 TRAVELLING BEHIND HIT REAR OF V1.
\begin{tabular}{lllll} 
CASUALTY & \(001(001)\) & \((21 \mathrm{YRS}-\mathrm{F}-\mathrm{REDA})\) & SLIGHT & DRIVER/RIDER \\
CASUALTY & \(002(002)\) & \((44 \mathrm{YRS}-\mathrm{M}-\) REDA \()\) & SLIGHT & DRIVERRRIDER
\end{tabular}

\section*{VEHICLE}

001 (002)
CAR
BT - DRV NOT CONTACTED
(21 YRS - F REDACT)

\section*{(44 YRS - M -} REDACT)

SLOWING/STOPPING

V002

WAITING-HELD UP BACK HIT
FIRST
(SW TO NE) J/P - UNKN
FRONTHIT FRONT HIT FIRST

308 (FOLLOWING TOO CLOSE)
\begin{tabular}{lll} 
V002 & A & 405 (FAILED TO LOOK PROPERLY) \\
V002 & A & 602 (CARELESS, RECKLESS OR IN A HURRY)
\end{tabular}
LIGHT LONDON RD JMV TEESDALE AVENUE.

LINK 137-142

ZEBRA XING

V2 PULLED OUT OF JUNCTION, IN PATH OF ON-COMING V1 CAUSING COLLISION



S/B V2 TURNED RIGHT; V1 SHUNTED HIM
\begin{tabular}{|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (36 YRS - F - REDA) & SLIGHT & VEH/PILLION PAX & FRONT SEAT PASSENGER \\
\hline VEHICLE & 001 (002) & \begin{tabular}{l}
CAR \\
BT-NEG
\end{tabular} & \[
\begin{aligned}
& \text { (33 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & TURNING RIGHT \\
\hline VEHICLE & 002 (001) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NEG }
\end{aligned}
\] & \[
\begin{aligned}
& \text { ( } 58 \text { YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & G/AHEAD - OTHER \\
\hline V001 & A & 405 (FAILED TO LOOK PROPERLY) & & & V001 \\
\hline
\end{tabular}
B 103 (SLIPPERY ROAD (DUE TO WEATHER))
\begin{tabular}{ll} 
(N TO W) & JOURNEY P/O WORK \\
BACK HIT & JCTMID \\
FIRST & \\
(N TO S) & SCHOOL - RIDING \\
FRONTHIT & JCTMID \\
FIRST & \\
103 (SLIPPERY ROAD (DUE TO WEATHER))
\end{tabular}
\begin{tabular}{lllll}
6 \\
0115TX20072 & FRI 06/02/2015 13:38 & & \\
& LIGHT & LONDON RD JM TWICKENHAM RD \\
POLICE -AT SCENE & ROAD-DRY & WEATHER- & DUAL CWY & MULTIJUN
\end{tabular} AUTO SIG

NE-BD V3 WITH EQUIPMENT RUNNING, ENTERED JUNCTION, WAS HIT FROM HER RIGHT BY N/B V2 WHO BOUNCED INTO V1
\begin{tabular}{|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (35 YRS - M - REDA) & SLIGHT & DRIVER/RIDER \\
\hline VEHICLE & 001 (002) & \[
\begin{aligned}
& \text { VAN/GOODS => } 3.5 T \\
& \text { BT - NOT REQ }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (29 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & G/AHEAD - OTHER \\
\hline VEHICLE & 002 (003) & \begin{tabular}{l}
CAR \\
BT-NOTREQ
\end{tabular} & \[
\begin{aligned}
& \text { (35 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & G/AHEAD - OTHER \\
\hline VEHICLE & 003 (001) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT-NOT REQ }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (27 YRS - F - } \\
& \text { REDACT) }
\end{aligned}
\] & G/AHEAD - OTHER \\
\hline V002 & A & 406 (FAILED TO JUDGE & 'S PATH OR SPEED) & V002 \\
\hline V002 & A & 405 (FAILED TO LOOK & & \\
\hline
\end{tabular}
\begin{tabular}{ll} 
NODE 142 & \(516510 / 176840\) \\
PEDN PHASE ATS & NONE IN 50M
\end{tabular}

PEDN PHASE ATS
NONE IN 50M
\begin{tabular}{ll} 
(S TO N) & JOURNEY P/O WORK \\
FRONT HIT & JCT MID \\
FIRST & \\
& \\
(S TO N) & JOURNEY P/O WORK \\
BACK HIT & JCTMID \\
FIRST & \\
(SW TO NE) & JOURNEY P/O WORK \\
O/S HIT FIRST & JCT MID \\
403 (POOR TURN OR MANOEUVRE)
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 0115TX20182 & \multicolumn{2}{|l|}{WED 18/03/2015 08:30} & LIGHT & \multicolumn{4}{|l|}{LONDON RD JMW CADBURY CLOSE} & LINK 137-142 & & 516410/176790 \\
\hline POLICE-ATSCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & T/STAG JUN & \multicolumn{2}{|l|}{GIVEWAY/UNCONT} & \multicolumn{2}{|l|}{NOXING FACIL IN 50M} & NONE IN 50M \\
\hline \multicolumn{11}{|l|}{SW-BD V1 FILTEREDE IN HEAVY TRAFFIC; V2 JOINED MAIN ROAD TURNED RIGHT, V1 UNABLE TO AVOID COLLISION} \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(26 YRS - M - REDA)} & SLIGHT & \multicolumn{3}{|l|}{DRIVERRIDER} & & & \\
\hline VEHICLE & 001 (002) & M/C 51-125CC & & \begin{tabular}{l}
(26 YRS - M - \\
REDACT)
\end{tabular} & & \multicolumn{2}{|l|}{G/AHEAD - OTHER} & (NE TO SW) O/S HIT FIRST & COMMUTING & \\
\hline VEHICLE & 002 (001) & \begin{tabular}{l}
CAR \\
BT-NOT REQ
\end{tabular} & & \multicolumn{2}{|l|}{REDACT)} & \multicolumn{2}{|l|}{TURNING RIGHT} & \begin{tabular}{l}
(NW TO SW) \\
FRONTHIT FIRST
\end{tabular} & COM & \\
\hline V001 & A & \multicolumn{4}{|l|}{701 (STATIONARY OR PARKED VEHICLE(S))} & V002 & A & \multicolumn{3}{|l|}{701 (STATIONARY OR PARKED VEHICLE(S))} \\
\hline V001 & A & \multicolumn{4}{|l|}{405 (FAILED TO LOOK PROPERLY)} & V002 & A & \multicolumn{3}{|l|}{405 (FAILED TO LOOK PROPERLY)} \\
\hline
\end{tabular}
10 LIGHT LONDONRD 40M SOUTH WEST JNW SPURRD 15/04/2015 15:45 5164801176820
\begin{tabular}{llll} 
POLICE - OVER COU & ROAD-DRY & WEATHER- & FINE
\end{tabular}

V2 WAS TURNING INTO PRIV ENTRANCE ACROSS PATH V1 WHO HAD NO TIME TO STOP

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 0115 TX 20377 & WED 03/06/2015 07:50 & LIGHT & \multicolumn{3}{|l|}{PARK RD JMW TWICKENHAM RD} & NODE 141 & 516520/176730 \\
\hline POLICE-AT SCENE & ROAD-DRY & WEATHER- & SINGLE CWY & T/STAG JUN & GIVEWAY /UNCONT & NO XING FACIL IN 50M & NONE IN 50M \\
\hline & & FINE & & & & & \\
\hline
\end{tabular}

V1 PULLED OUT TURING LEFT VIEW OBSTRUCTED BY CAR PULLING OUT TURNING RIGHT, V1 COLLIDED WITH PASSING V2
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (26 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline VEHICLE & 001 (002) & CAR & (33 YRS - M - & \multirow[t]{2}{*}{TURNING - LEFT} & (SE TO SW) & JOURNEY P/O WORK \\
\hline & & BT-NOT REQ & REDACT) & & O/S HIT FIRST & JCTMID \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & PED CYCLE & (26 YRS - F - & G/AHEAD - OTHER & (NE TO SW) & J/P - UNKN \\
\hline & & BT-N/A & REDACT) & & N/S HIT FIRST & JCT MID \\
\hline V001 & A & 701 (STATIONARY OR & \(E(S)\) ) & V002 A & 701 (STATIONA & OR PARKED VEHICLE(S)) \\
\hline
\end{tabular}

困
0115TX20392 MON 01/06/2015 15:50 LIGHT
POLICE-AT SCENE ROAD-DRY
V1 TURNED RIGHT ACROSS PATH OF ONCOMING V2
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (40 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (002)} & CAR & (37 YRS - F - & TURNING RIGHT & (NE TO NW) & J/P - UNKN \\
\hline & & BT-NOT REQ & REDACT) & & FRONTHIT & JCTMID \\
\hline & & & & & FIRST & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (001)} & PED CYCLE & (40 YRS - M - & G/AHEAD - OTHER & (SW TO NE) & J/P - UNKN \\
\hline & & BT-N/A & REDACT) & & FRONT HIT & JCT MID \\
\hline & & & & & FIRST & \\
\hline V001 & A & 405 (FAILED TO LOOK PROPERLY) & & V001 A & 602 (CARELE & ECKLESS OR IN A HURRY) \\
\hline
\end{tabular}

NE-BD V1 BRAKED HARD AND FELL OFF AVOIDING U/K V2 TURNING RIGHT VERY CLOSE IN FRONT
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (34 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (000)} & M/C >500CC & (34 YRS - M - & \multirow[t]{2}{*}{SLOWING/STOPPING} & (SW TO NE) & COMMUTING \\
\hline & & \multirow[t]{2}{*}{BT - NOT REQ} & \multirow[t]{2}{*}{REDACT)} & & DIDNOT & JCTMID \\
\hline & & & & & IMPACT & \\
\hline V001 & A & 408 (SUDDEN BRAKING) & & V001 A & 405 (FAILED & OK PROPERLY) \\
\hline V001 & A & 409 (SWERVED) & & & & \\
\hline
\end{tabular}

14
\(0115 T \times 20618\) HOSPITAL

WEATHER-
FINE
SINGLE CWY T/STAG JUN GIVEWAY /UNCONT


SW-BD V2 WAITING IN HEAVY TRAFFIC HIT BY V1 LEAVING HOSPITAL BEING TAKEN ILL WHILE DRIVING
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (81 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline CASUALTY & 002 (002) & (65 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline VEHICLE & 001 (002) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NOT PROVD }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (81 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & TURNING-LEFT & \begin{tabular}{l}
(E TO SW) \\
FRONTHIT \\
FIRST
\end{tabular} & J/P - UNKN JCTMID \\
\hline VEHICLE & 002 (001) & \[
\begin{aligned}
& \text { VAN/GOODS => } 3.5 T \\
& \text { BT - NOT REQ }
\end{aligned}
\] & \[
\begin{aligned}
& \text { ( } 65 \text { YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & WAITING-HELD UP & (NE TO SW) N/S HIT FIRST & JOURNEY P/O WORK JCTMID \\
\hline V001 & A & 505 (ILLNESS OR DISA & OR PHYSICAL) & & & \\
\hline
\end{tabular}
POLICE - AT SCENE ROAD-DRY
WEATHER-
FINE

LONDON RD JMW WOOD LANE
LINK 137-142

SINGLE CWY CROSSROADS
GIVEWAY /UNCONT
ZEBRA XING

V1 TURNED RIGHT, ACROSS PATH OF ON-COMING V2 CAUSING COLLISION.

\({ }^{16115 T \times 20707}\)
POLICE - OVER COU

S/B V1 LAWFULLY IN CYCLE LANE PASSED STOPPED V2 IN VEHICLE LANE; V2 OPENED F/N/S DOOR TO DANGER, V1 COLLIDED
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (43 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (002)} & PED CYCLE & (43 YRS - F - & O/TAKING - NEARSIDE & ( NTOS ) & COMMUTING \\
\hline & & BT-N/A & REDACT) & & FRONT HIT & JCTMID \\
\hline & & & & & FIRST & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & CAR & (? YRS - F - & PARKED & ( P TO P) & SCHOOL - TAKING \\
\hline & & BT - DRV NOT CONTACTED & REDACT) & & N/S HIT FIRST & JCT MID \\
\hline V002 & A & 904 (VEHICLE DOOR OPENE & ED NEGLIGENT & & & \\
\hline
\end{tabular}

TWICKENHAM OAD JMW UNNAMED ENTRANCE TO WEST MIDDLESEX HOSPITAL
POLICE - AT SCENE ROAD-DRY WEATHER-
UNKNOWN

SW-BD V1 ABOUT TO ENTER HOSPITAL CLIPPED PED CAS ON PED X
\begin{tabular}{llll} 
CASUALTY & \(001(001)\) & \((50\) YRS - M - REDA) & SLIGHT \\
VEHICLE & \(001(000)\) & CAR & (? YRS - M \\
& & BT - DRV NOT CONTACTED & REDACT) \\
C001 & A & 802 (FAILED TO LOOK PROPERLY) & \\
C001 & A & 803 (FAILED TO JUDGE VEHICLE'S PATH OR SPEED)
\end{tabular}
[18
0115TX20779 WED 07/10/2015 07:15
POLICE-AT SCENE ROAD-WET
LIGHT
WEATHER-
OTHER
URNING RIGHT

TWICKENHAM RD J/W TOWN FIELD WAY

DUAL CWY T/STAG JUN STOP SGN

DRIVER/RIDER
(18 YRS - M -
REDACT)
(32 YRS - F
REDACT)

G/AHEAD - OTHER

GRIGHT

V002
TURNING RIGHT
\begin{tabular}{ll} 
(18 YRS - M - REDA) & SLIGHT \\
PED CYCLE & \((18\) YRS - M - \\
BT - N/A & REDACT) \\
& \\
CAR & \((32\) YRS - F - \\
BT - DRV NOT CONTACTED & REDACT) \\
\(406 ~(F A l l ~ F D ~ T O ~ J U D G E ~ O T H E R ~ P E R S O N ' S ~ P A T H ~ O R ~ S P E F D ~\)
\end{tabular}

SE BOUND
TURNING - LEFT

V001
A

VEHICLE

V001

001 (001)
001 (002)

002 (001)

B

S/B V1 [CYCLIST] IN CYCLE LANE COULD NOT AVOID V2 TURNING RIGHT INTO MAIN ROAD
\begin{tabular}{ll} 
CASUALTY & \(001(001)\) \\
VEHICLE & \(001(002)\) \\
VEHICLE & \(002(001)\) \\
V001 & B
\end{tabular}

LINK 129-141
516300/176410

NO XING FACIL IN 50M
NONE IN 50M

LINK 129-141
NO XING FACIL IN 50M
\begin{tabular}{ll} 
(N TO S) & COMMUTING \\
FRONT HIT & JCTMID \\
FIRST & \\
& \\
(E TO N) & COMMUTING \\
O/S HIT FIRST & JCT MID \\
406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)
\end{tabular}
WEATHER- SINGLECWY CROSSROADS AUTO SIG

V1 N/B IN MID-JUNCTION COLLIDED WITH S/B V2 MAKING ILLEGAL RIGHT TURN
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (25 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (002)} & M/C 126-500CC & (25 YRS - F - & G/AHEAD - OTHER & (S TO N) & COMMUTING \\
\hline & & BT - NOT REQ & REDACT) & & FRONT HIT & JCT MID \\
\hline & & & & & FIRST & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & CAR & (35 YRS - F - & TURNING RIGHT & ( NTOSW ) & SCHOOL - TAKING \\
\hline & & BT - NOT REQ & REDACT) & & N/S HIT FIRST & JCT MID \\
\hline V002 & A & 403 (POOR TURN OR MANOEUVRE) & & V002 A & 305 (ILLEGAL & OR DIRECTION OF TRAVEL) \\
\hline
\end{tabular}

20
01160000903 WED 09/11/2016 15:37
POLICE-AT SCENE ROAD-DRY NOT KNOWN HOW COLLISION OCCURRED
\begin{tabular}{|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (49 YRS - F - REDA) & SLIGHT & DRIVER/RIDER \\
\hline VEHICLE & 001 (000) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NOT REQ }
\end{aligned}
\] & (49 YRS - F REDACT) & WAITING - HELD UP \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
MINIBUS >=17 PAX \\
BT-NEG
\end{tabular} & (55 YRS - M REDACT) & WAITING-HELD UP \\
\hline V001 & B & 406 (FAILED TO JUDG & 'S PATH OR SPEED) & \\
\hline
\end{tabular}

406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)
\begin{tabular}{ll} 
CELL 516000/176000 & \(516060 / 176430\) \\
NO XING FACIL IN 50M & NONE IN 50M
\end{tabular}
\begin{tabular}{ll} 
(SW TO NE) & COMMUTING \\
FRONT HIT & \\
FIRST & \\
& \\
(NE TO SW) & JOURNEY P/O WORK \\
BACK HIT & \\
FIRST &
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 01160003754 & TUE 15/11/2 & & DARK & \multicolumn{3}{|l|}{TWICKENHAM RD JM AMHURST GARDENS} & LINK 129-141 & & 516250/176330 \\
\hline SELF-REPORTED & & ROAD-DRY & WEATHERFINE & SINGLE CWY & T/STAG JUN & UNKNOWNS/R & UNKNOWNS/R & & NONE IN 50M \\
\hline \multicolumn{10}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(49 YRS - M - REDA)} & SLIGHT & DRIVERRIDER & & & & \\
\hline VEHICLE & 001 (000) & \begin{tabular}{l}
PEDCYCLE \\
BT - N/A
\end{tabular} & & (49 YRS - M REDACT) & & G/AHEAD - OTHER & (MOVE UNKN) O/S HIT FIRST & COMMUTING JCT APP & \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
CAR \\
BT-NOT REQ
\end{tabular} & & (17 YRS - M REDACT) & & TURNING RIGHT & \begin{tabular}{l}
(MOVE \\
UNKN) \\
FRONT HIT \\
FIRST
\end{tabular} & JIP - UNKN JCT APP & \\
\hline
\end{tabular}

뜽

\begin{tabular}{lll} 
SELF-REPORTED & \multicolumn{1}{l}{ UNKNOWN } & WEATH \\
& \multicolumn{1}{c}{ S/R } & FINE \\
NOT KNOWN HOW COLLISION OCCURRED \\
CASUALTY & \(001(001)\) & \((30\) YRS - M - REDA) \\
VEHICLE & \(001(000)\) & M/C 126-500CC \\
& & BT - DRV NOT CONTACTED
\end{tabular}
\begin{tabular}{lllll} 
DARK & TWICKENHAM RD 20M S OF J/V AMHURST GARDENS & LINK 129-141 \\
WEATHER- & SINGLE CWY & UNKNOWN & UNKNOWN S/R & ZEBRA XING \\
FINE & & & & \\
& & & & \\
& SLIGHT & DRIVERRIDER & & \\
& (30 YRS - M - & UNKNOWN & O/TAKING - NON MOVING VEH & (MOVE
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 01160017318 & \multicolumn{2}{|l|}{THU 01/09/2016 23:35} & DARK & \multicolumn{4}{|l|}{TWICKENHAM RD, NR JUNCT WTH LONDON RD .} & \multicolumn{2}{|l|}{NODE 142} & 516510/176820 \\
\hline POLICE-AT SCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & CROSSROADS & AUTO & & PEDNPHASE & & NONE IN 50M \\
\hline \multicolumn{11}{|l|}{V1 MOVED OFF, V2 UNDERTOOK AND COLLIDED WITH V1 WING MIRROR} \\
\hline CASUALTY & 001 (002) & (19 YRS - M - & & SLIGHT & DRIVER/RIDER & & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & \multicolumn{2}{|l|}{CAR} & \multicolumn{2}{|l|}{(39 YRS - M -} & \multicolumn{2}{|l|}{MOVING OFF} & (S TO N) & J/P - UNKN & \\
\hline & & \multicolumn{2}{|l|}{BT-NOT REQ} & \multicolumn{2}{|l|}{REDACT)} & & & N/S HIT FIRST & JCT APP & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (000)} & \multicolumn{2}{|l|}{PED CYCLE} & \multicolumn{2}{|l|}{(19 YRS - M -} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{O/TAKING - NEARSIDE}} & (S TO N) & J/P - UNKN & \\
\hline & & \multicolumn{2}{|l|}{BT-N/A} & \multicolumn{2}{|l|}{REDACT)} & & & O/S HIT FIRST & JCT APP & \\
\hline V002 & B & \multicolumn{4}{|l|}{310 (CYCLIST ENTERING ROAD FROM PAVEMENT)} & \multirow[t]{2}{*}{V001} & B & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)}} \\
\hline V002 & B & \multicolumn{4}{|l|}{406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED)} & & & & & \\
\hline
\end{tabular}

WEATHER- SINGLE CWY T/STAGJUN GIVEWAY/UNCONT

PED ON ZEBRA CROSSING, V1 OVERTOOK STAT CARS AND FAILED CROSSING HITTING PED
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (? YRS - F - REDA) & SLIGHT & PEDESTRIAN & SE BOUND & \multicolumn{2}{|l|}{FROM DRIVERS N/SIDE - MASKED} \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (000)} & M/C 51-125CC & (? YRS - & & \multirow[t]{2}{*}{O/TAKING - NON MOVING VEH} & (SW TO NE) & J/P - UNKN \\
\hline & & \multirow[t]{2}{*}{BT- DRV NOT CONTACTED} & UNKNOWN - & & & FRONTHIT & JCT APP \\
\hline & & & REDACT) & & & \multicolumn{2}{|l|}{FIRST} \\
\hline V001 & \multirow[t]{2}{*}{A} & \multicolumn{3}{|l|}{\multirow[t]{2}{*}{701 (STATIONARY OR PARKED VEHICLE(S)) 602 (CARELESS, RECKLESS OR IN A HURRY)}} & \multirow[t]{2}{*}{V001
A} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{304 (DISOBEYED PEDESTRIAN CROSSING FACILITY)}} \\
\hline V001 & & & & & & & \\
\hline
\end{tabular}

2
01160017989 WED 14/09/2016 17:20
LIGHT
WEATHER-

FINE

\section*{V1 SUN IN EYES TURNED RIGHT ACROSS PATH OF ONCOMING V2}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (47 YRS - F - REDA) & SERIOUS & DRIVER/RIDER & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & CAR & (40 YRS - F - & TURNING RIGHT & (NE TO NW) & J/P - UNKN \\
\hline & & BT - NEG & REDACT) & & N/S HIT FIRST & L/MAIN RD \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (000)} & PED CYCLE & (47 YRS - F - & G/AHEAD - OTHER & (SW TO NE) & J/P - UNKN \\
\hline & & BT-N/A & REDACT) & & FRONTHIT & JCTMID \\
\hline & & & & & FIRST & \\
\hline V001 & B & 706 (DAZZLING SUN) & & V001 B & 405 (FAILED TO & OK PROPERLY) \\
\hline
\end{tabular}
WEATHER- SINGLECWY CROSSROADS AUTO SIG

N/B V1 TURNED RIGHT TO MAIN ROAD; SW-BD V2 OVERTOOK WAITING VEHICLES, COLLIDED V1 O/S
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (22 YRS - M - REDA) & SERIOUS & DRIVER/RIDER & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (002)} & CAR & (43 YRS - F - & TURNING RIGHT & (S TO NE) & COMMUTING \\
\hline & & BT-NOT REQ & REDACT) & & O/S HIT FIRST & JCTMID \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (001)} & M/C 51-125CC & (22 YRS - M - & \multirow[t]{3}{*}{O/TAKING - NON MOVING VEH} & (NE TO SW) & JOURNEY P/O WORK \\
\hline & & BT- NOT REQ & REDACT) & & FRONTHIT & JCTMID \\
\hline & & & & & FIRST & \\
\hline V002 & A & \multicolumn{2}{|l|}{403 (POOR TURN OR MANOEUVRE)} & \multirow[t]{2}{*}{V002 B} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{406 (FAILED TO JUDGE OTHER PERSON'S PATH OR SPEED}} \\
\hline V002 & B & \multicolumn{2}{|l|}{602 (CARELESS, RECKLESS OR IN A HURRY)} & & & \\
\hline
\end{tabular}

四
0116 TX20044 THU 21/01/2016 13:12
POLICE - OVER COU ROAD-DRY WEATHER-

FINE
NE-BD V1 INTENDED LEFT TURN WAS SHUNTED WHEN HELD ON RED ATS

POLICE-AT SCENE ROAD-WET RAINING SINGLE CWY CROSSROADS AUTO SIG

\section*{IT APPEARS V1 HAS RUN A RED ATS BELIEVING IT HAD TURNED GREEN IN HER FAVOUR, V1 THEN HIT O/S OF V2 CONTINUING ON GREEN}
\begin{tabular}{|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (31 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & \\
\hline CASUALTY & 002 (002) & (28 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & \\
\hline VEHICLE & 001 (002) & CAR
BT - NEG & (31 YRS - F REDACT) & & MOVING OFF \\
\hline VEHICLE & 002 (001) & \begin{tabular}{l}
CAR \\
BT-NEG
\end{tabular} & \[
\begin{aligned}
& \text { (28 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & G/AHEAD - OTHER \\
\hline V001 & B & 707 (RAIN, SLEET, SNOW OR FOG) & & & V001 \\
\hline V001 & A & 301 (DISOBEYED AUTOMATIC TRAF & SIGNAL) & & V001 \\
\hline V001 & A & 602 (CARELESS, RECKLESS OR IN & JRRY) & & \\
\hline
\end{tabular}
\begin{tabular}{ll}
32 \\
\(0116 T \times 20166\) & THU 25/02/2016 17:30
\end{tabular}
POLICE-AT SCENE ROAD-WET

V2 HAS CROSSED ON PED CROSSING AGAINST RED MAN SIGNAL INTO PATH OF V1 \& WAS HIT

\begin{tabular}{llr} 
DARK & LONDON RD, JM TWICKENHAM RD \\
WEATHER- & SINGLE CWY CROSSROADS AUTO SIG
\end{tabular}
\begin{tabular}{ll} 
NODE 142 & \(516530 / 176840\) \\
PEDN PHASE ATS & NONE IN 50M
\end{tabular}
\begin{tabular}{ll} 
(NE TO SW) & J/P - UNKN \\
FRONT HIT & JCT MID \\
FIRST & \\
& \\
(S TO N) & J/P - UNKN \\
O/S HIT FIRST & JCT MID
\end{tabular}

405 (FAILED TO LOOK PROPERLY) 510 (DISTRACTION OUTSIDE VEHICLE)
POLICE - AT SCENE FROST/ICE FOG/MI S/B V1 BEGAN RIGHT TURN; S/B V2 ON HIS R/O/S COLLIDED
\begin{tabular}{|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (33 YRS - M - REDA) & SLIGHT & DRIVER/RIDER \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & CAR & (39 YRS - M - & TURNING RIGHT \\
\hline & & BT-NEG & REDACT) & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & M/C 51-125CC & (33 YRS - M - & O/TAKING - MOVING VEH \\
\hline & & BT - NEG & REDACT) & \\
\hline V002 & A & 403 (POOR TURN OR & & \\
\hline
\end{tabular}

TWICKENHAM RD JM AMHURST GARDENS
SINGLE CWY T/STAG JUN GIVEWAY/UNCONT

LINK 129-141
516260/176340
NO XING FACIL IN 50M NONE IN 50M
\begin{tabular}{ll} 
(N TO W) & COMMUTING \\
O/S HIT FIRST & JCTMID \\
(N TO S) & COMMUTING \\
FRONT HIT & JCTMID \\
FIRST &
\end{tabular}
34
POLICE - AT SCENE

ROAD-DRY
(52 YRS - M - REDA)
M/C >500CC
BT - NOT REQ

410 (LOSS OF CONTROL)

TWICKENHAM RD JW AMHURST GARDENS
SINGLE CWY CROSSROADS GIVEWAY/UNCONT

SLIGHT
(52 YRS - M - G/AHEAD - OTHER

LINK 137-142
PEDN PHASE ATS
515950/176550 NONE IN 50M

\section*{V1 LOST CONTROL DUE TO VEHICAL DEFECT}
\begin{tabular}{lll} 
CASUALTY & \(001(001)\) & \((52\) YRS \(-\mathrm{M}-\mathrm{REDA})\) \\
VEHICLE & \(001(000)\) & \begin{tabular}{l} 
M/C >500CC \\
BT - NOT REQ
\end{tabular} \\
& & \\
V001 & A & 410 (LOSS OF CONTROL \()\)
\end{tabular}
LIGHT
WEATHER-
\begin{tabular}{ll} 
(W TO E) & J/P - UNKN \\
DID NOT & JCT MID \\
IMPACT &
\end{tabular}
\begin{tabular}{llll} 
POLICE - AT SCENE & ROAD-DRY & WEATHER- & SINGLE CWY MULTIJUN
\end{tabular}

PED CAS RAN ACROSS MAIN RD BELIEVED ALL LANES STOPPED; LN3 [RIGHT TURN FILTER] STILL LIVE, V1 COLLIDED WITH PED



V2 WENT INTO THE BACK OF V1
\begin{tabular}{lll} 
CASUALTY & 001 (001) & \((47\) YRS - M - REDA) \\
VEHICLE & \(001(002)\) & \begin{tabular}{l} 
PED CYCLE \\
BT - N/A
\end{tabular} \\
VEHICLE & \(002(001)\) & \begin{tabular}{l} 
CAR \\
\\
BT - DRV NOT CONTACTED
\end{tabular} \\
V002 & A & 408 (SUDDEN BRAKING)
\end{tabular}

LIGHT NFL TWICKENHAM RD 29M STH JW AMHURST GDNS
SINGLE CWY NO JUN IN N/A

20M
SLIGHT DRIVERRIDER
\begin{tabular}{|c|c|c|c|}
\hline (47 YRS - M - & G/AHEAD - OTHER & (S TO N) & J/P - UNKN \\
\hline \multirow[t]{2}{*}{REDACT)} & & BACK HIT & \\
\hline & & FIRST & \\
\hline (? YRS - M - & G/AHEAD - OTHER & (S TO N) & J/P - UNKN \\
\hline REDACT) & & FRONT HIT & \\
\hline & & FIRST & \\
\hline
\end{tabular}
\begin{tabular}{ll} 
LINK 129-141 & \(516240 / 176290\) \\
NO XING FACIL IN 50M & NONE IN 50M
\end{tabular}

FIRST

38
\(0116 T \times 20331\)
POLICE - AT SCENE

DARK
WEATHERFINE

V1'S RIDER FELL OF BIKE DUE TO UN-EVEN ROAD SURFACE
\begin{tabular}{lll} 
CASUALTY & \(001(001)\) & \((28\) YRS \(-\mathrm{M}-\mathrm{REDA})\) \\
VEHICLE & \(001(000)\) & PED CYCLE \\
& & BT - N/A \\
V001 & A & 101 (POOR OR DEFECTIVE ROAD SURFACE \()\)
\end{tabular}

V1 MOVED LEFT AS V2 WAS ON THE NEARSIDE AND COLLIDED
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (14 YRS - M - REDA) & \multicolumn{3}{|l|}{SLIGHT DRIVER/RIDER} & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (002)} & CAR & (31 YRS - F - & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{O/TAKING - MOVING VEH}} & (SW TO NE) & COMMUTING \\
\hline & & BT-NOT REQ & REDACT) & & & N/S HIT FIRST & JCT APP \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & PED CYCLE & (14 YRS - M - & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{G/AHEAD - OTHER}} & (SW TO NE) & SCHOOL-RIDING \\
\hline & & BT-N/A & REDACT) & & & O/S HIT FIRST & JCT APP \\
\hline V001 & A & \multicolumn{2}{|l|}{407 (TOO CLOSE TO CYCLIST, HORSE RIDER OR PEDESTRIAN)} & V001 & A & 405 (FAILED T & OK PROPERLY) \\
\hline V001 & A & 403 (POOR TURN OR & & V002 & B & 602 (CARELES & ECKLESS OR IN A \\
\hline
\end{tabular}

40
0116TX20425 FRI 03/06/2016 17:14

POLICE -AT SCENE ROAD-DRY

PED HAS STEPPED OUT INTO PATH OF CYCLIST
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (63 YRS - M - REDA) & SLIGHT & PEDESTRIAN & & SBOUND & \multicolumn{3}{|l|}{FROM DRIVERS N/SIDE} \\
\hline VEHICLE & 001 (000) & PED CYCLE & (? YRS - M - & & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{G/AHEAD - OTHER}} & (W TO E) & J/P - UNKN & \\
\hline & & BT-N/A & REDACT) & & & & FRONTHIT & JCT APP & \\
\hline & & & & & & & \multicolumn{2}{|l|}{FIRST} & \\
\hline V001 & A & \multicolumn{2}{|l|}{403 (POOR TURN OR MANOEUVRE)} & & V001 & A & \multicolumn{2}{|l|}{405 (FAILED TO LOOK PROPERLY)} & \\
\hline V001 & A & \multicolumn{3}{|l|}{602 (CARELESS, RECKLESS OR IN A HURRY)} & C001 & A & \multicolumn{2}{|l|}{802 (FAILED TO LOOK PROPERLY)} & \\
\hline C001 & A & \multicolumn{3}{|l|}{803 (FAILED TO JUDGE VEHICLE'S PATH OR SPEED)} & C001 & A & \multicolumn{2}{|l|}{801 (CROSSING ROAD MASKED BY STATIONARY OR PARKED '} & \\
\hline
\end{tabular}

LIGHT TWICKENHAM RD JM TEESDALE GARDENS
WEATHERFINE
V2 WAS O/T ON O/S AS V1 HAS TURNED RIGHT CAUSING COLLISION
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (55 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (002)} & CAR & (55 YRS - F - & TURNING RIGHT & (NE TO NW) & JOURNEY P/O WORK \\
\hline & & BT-NOT REQ & REDACT) & & O/S HIT FIRST & JCTMID \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (001)} & M/C >500CC & (55 YRS - M - & \multirow[t]{2}{*}{O/TAKING - MOVING VEH} & (NE TO SW) & JOURNEY P/O WORK \\
\hline & & BT - NOT REQ & REDACT) & & N/S HIT FIRST & JCTMID \\
\hline V001 & A & 403 (POOR TURN OR & & V002 A & 403 (POOR TUR & R MANOEUVRE) \\
\hline V001 & A & 405 (FAILED TO LOOK & & V002 A & 405 (FAILED TO & OK PROPERLY) \\
\hline V001 & A & 602 (CARELESS, REC & URRY) & V002 A & 601 (AGGRESS & DRIVING) \\
\hline
\end{tabular}

四
0116TX20542 SAT 16/07/2016 17:47 LIGH
POLICE-AT SCENE ROAD-DRY WEATHER-

V1 POSSIBLY BLACKED OUT AND LOST CONTROL

\begin{tabular}{lllll} 
0116TX20646 & TUE 30/08/2016 08:06 & LIGHT & NFL: SPUR RD 35M S JMN MARLBOROUGH RD \\
POLICE-AT SCENE & ROAD-DRY & WEATHER- & SINGLE CWY NO JUN IN
\end{tabular}
\begin{tabular}{ll} 
LINK 142-144 & \(516510 / 176880\) \\
NO XING FACIL IN 50M & NONE IN 50M
\end{tabular}

S/B V1 COULD NOT AVOID SHUNTING V2 WHEN IT SUDDENLY STOPPED CLOSE IN FRONT OF HIM
\begin{tabular}{|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (47 YRS - M - REDA) & SLIGHT & DRIVERRRIDER & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (002)} & CAR & (47 YRS - M - & G/AHEAD - OTHER & ( N TO S) COMMUTING \\
\hline & & BT-NEG & REDACT) & & FRONT HIT \\
\hline & & & & & FIRST \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (001)} & CAR & (? YRS - F - & SLOWING/STOPPING & ( N TO S) J/P-UNKN \\
\hline & & BT-NOT REQ & REDACT) & & BACK HIT \\
\hline & & & & & FIRST \\
\hline V002 & B & 403 (POOR TURN OR MANOEUVRE) & & V002 B & 405 (FAILED TO LOOK PROPERLY) \\
\hline V002 & B & 406 (FAILED TO JUDGE OTHER PERS & 'S PATH OR SPEED) & & \\
\hline
\end{tabular}

\begin{tabular}{llll} 
01170010680 & TUE 10/01/2017 07:00 & DARK \\
POLICE-AT SCENE & ROAD-DRY & WEATHER- \\
& & \\
CASUALTY & \(001(001)\) & \((17\) YRS - F - REDA) \\
VEHICLE & \(001(000)\) & \begin{tabular}{l} 
CAR \\
BT - NOT REQ
\end{tabular} \\
& & \\
C001 & A & 802 (FAILED TO LOOK PROPERLY)
\end{tabular}

TWICKENHAM RD 60M W OF JM TEESDALE AVENUE
\begin{tabular}{ll} 
SINGLE CWY & NO JUN IN \\
& 20 M
\end{tabular} 20M

SLIGHT
(45 YRS - M REDACT)

LINK 129-141
516350/176490
NO XING FACIL IN 50M NONE IN 50M

FROM DRIVERS N/SIDE
(NE TO SW) JOURNEY P/O WORK FRONTHIT FIRST
NO XING FACIL IN 50M NONE IN 50M

46 01170025421
LIGHT TWICKENHAM RD 30M W OF JMN TEESDALE AVENUE WEATHERFINE
MINIBUS >=17 PAX BT-NOT REQ 408 (SUDDEN BRAKING)

SBOUND
G/AHEAD - OTHER
LINK 129-141
NO XING FACIL IN 50MNO XING FACIL IN 50MNONE IN 50M
(E TO W) JOURNEY P/O WORK
DID NOT
IMPACT
IMPACT


\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 01170037774 & \multicolumn{2}{|l|}{TUE 16/05/2017 17:45} & LIGHT & \multicolumn{4}{|l|}{TEESDALE GARDENS JM TWICKENHAM RD} & \multicolumn{2}{|l|}{LINK 129-141} & 516450/176620 \\
\hline POLICE-AT SCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & T/STAG JUN & GIVEWAY /UNCONT & & NOXING FACIL & & NONE IN 50M \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(36 YRS - F - REDA)} & SLIGHT & PEDESTRIAN & & SWBOUND & \multicolumn{3}{|l|}{UNKNOWN/OTHER} \\
\hline VEHICLE & 001 (000) & \multicolumn{2}{|l|}{CAR} & (42 YRS - M REDACT) & & \multicolumn{2}{|l|}{U-TURN} & (NE TO SW) O/S HIT FIRST & \multicolumn{2}{|l|}{COMMUTING JCT APP} \\
\hline V001 & B & \multicolumn{6}{|l|}{405 (FAILED TO LOOK PROPERLY)} & & & \\
\hline 52 & & & & & & & & & & \\
\hline 01170038705 & \multicolumn{2}{|l|}{SUN 21/05/2017 15:23} & LIGHT & \multicolumn{4}{|l|}{LONDON RD JNW WOOD LANE ISLEWORTH} & \multicolumn{2}{|l|}{LINK 137-142} & 515940/176550 \\
\hline POLICE-AT SCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & T/STAG JUN & \multicolumn{2}{|l|}{GIVEWAY /UNCONT} & \multicolumn{2}{|l|}{ZEBRA XING} & NONE IN 50M \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(45 YRS - M - REDA)} & SLIGHT & \multicolumn{3}{|l|}{DRIVERRIDER} & & & \\
\hline VEHICLE & 001 (000) & \multicolumn{2}{|l|}{BT-NOT REQ} & \multicolumn{2}{|l|}{REDACT)} & \multicolumn{2}{|l|}{G/AHEAD - OTHER} & (WTOE) O/S HIT FIRST & JOURNEY P/ JCT APP & JOURNEY P/O WORK \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
CAR \\
BT-NOT REQ
\end{tabular} & & \multicolumn{2}{|l|}{REDACT)} & MOVING OFF & & \multicolumn{2}{|l|}{FRONT HIT JCTAPP
FIRST} & \\
\hline V002 & A & \multicolumn{6}{|l|}{403 (POOR TURN OR MANOEUVRE)} & & & \\
\hline
\end{tabular}
LIGHT TWICKENHAM RD JM LONDON RD
NODE 142
CNTL REFUGE N/O CTRLS
FROM DRIVERS O/SIDE - MASKED
\begin{tabular}{ll} 
(S TO N) & J/P - UNKN \\
DID NOT & JCT MID \\
IMPACT &
\end{tabular}
WEATHER- DUAL CWY CROSSROADS AUTO SIG
FINE

WBOUND
(49 YRS - M - G/AHEAD - OTHER
REDACT)
PEDESTRIAN
\begin{tabular}{ll} 
CASUALTY & \(001(001)\) \\
VEHICLE & \(001(000)\)
\end{tabular}
(15 YRS - M - REDA)
CAR
BT - NOT REQ
802 (FAILED TO LOO

A
FINE

C001

01170047938 TUE 11/07/2017 20:32

POLICE-AT SCENE
\begin{tabular}{ll} 
CASUALTY & \(001(002)\) \\
VEHICLE & \(001(000)\) \\
VEHICLE & \(002(000)\) \\
V002 & A
\end{tabular}

V002
A
ROAD-WET RAINING
(55 YRS - F - REDA)

CAR
BT-NOT REQ

CAR
BT - NOT REQ
707 (RAIN, SLEET, SNOW OR FOG)
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|l|}{TWICKENHAM RD JM PARK RD} \\
\hline SINGLE CWY & T/STAGJUN & GIVEWAY /UNCONT \\
\hline SLIGHT & DRIVER/RIDER & \\
\hline (34 YRS - M - & & G/AHEAD - L-HAND BEND \\
\hline \multicolumn{3}{|l|}{REDACT)} \\
\hline (55 YRS - F - & & TURNING RIGHT \\
\hline \multicolumn{3}{|l|}{REDACT)} \\
\hline & & V002 A \\
\hline
\end{tabular}
\begin{tabular}{ll} 
NODE 141 & \(516520 / 176730\) \\
NO XING FACIL IN 50M & NONE IN 50M
\end{tabular}
(S TO N) J/P-UNKN

FRONTHIT JCT CLEARED
FIRST
(S TO N) J/P- UNKN N/S HIT FIRST E/MAINRD

405 (FAILED TO LOOK PROPERLY)

55
01170050363 TUE 25/07/2017 14:4

POLICE - AT SCENE
\begin{tabular}{lll} 
CASUALTY & 001 (001) & \((48\) YRS - F - REDA) \\
VEHICLE & \(001(000)\) & \begin{tabular}{l} 
MINIBUS >=17 PAX \\
BT - DRV NOT CONTACTED
\end{tabular} \\
& & 403 (POOR TURN OR MANOEUVRE)
\end{tabular}

TWICKENHAM RD JM TWICKENHAM RD
SLIP ROAD SLIPRD GIVEWAY /UNCONT

SLIGHT PEDESTRIAN
(? YRS -
UNKNOWN REDACT)

CELL 516000/176000
516400/176350
ZEBRA XING
NONE IN 50M

UNKNOWN/OTHER
\begin{tabular}{ll} 
(E TO W) & J/P - UNKN \\
N/S HIT FIRST & JCTMID
\end{tabular}

匈 01170051099

LIGHT
WEATHERFINE

CASUALTY
VEHICLE

V001

001 (001)
001 (000)

B

ROAD-DRY
(29 YRS - F - REDA)
M/C 51-125CC BT - DRV NOT CONTACTED

TWICKENHAM RD J/W AMHURST GARDENS
SINGLE CWY T/STAG JUN GIVEWAY /UNCONT

SLIGHT
(? YRS UNKNOWN REDACT)

PEDESTRIAN WBOUND
O/TAKING - NEARSIDE

LINK 129-141
516260/176340
NO XING FACIL IN 50M
NONE IN 50M

FROM DRIVERS N/SIDE
\begin{tabular}{ll} 
(S TO N) & J/P - UNKN \\
FRONT HIT & JCT APP \\
FIRST &
\end{tabular}

405 (FAILED TO LOOK PROPERLY)
LIGHT WOOD LANE JMW LONDON RD
LINK 137-142
NO XING FACIL IN 50M

FROM DRIVERS O/SIDE
\begin{tabular}{lr} 
(S TO N) \\
FRONT HIT \\
FIRST
\end{tabular} J/P - UNKN

WEATHER-
\begin{tabular}{ll} 
CASUALTY & \(001(001)\) \\
VEHICLE & \(001(000)\)
\end{tabular}
(36 YRS - M - REDA
MINIBUS >=17 PAX
BT - NEG
SINGLE CWY CROSSROADS GIVEWAY/UNCONT

EBOUND
MOVING OFF
MOVNG OFF
SLIGHT PEDESTRIAN
(42 YRS - M REDACT)

PEDESTRIAN

V001
B
405 (FAILED TO LOOK PROPERLY)

LONDON RD J/W SYON LANE
SINGLE CWY CROSSROADS GIVEWAY/UNCONT

SLIGHT
(64 YRS - F REDACT)
(44 YRS - M - REDA)
001 (000)

V001
A
CAR
BT-NEG

405 (FAILED TO LOOK PROPERLY)

NODE 142
516520/176840

\section*{NO XING FACIL IN 50M \\ NONE IN 50M}

UNKNOWN/OTHER
\begin{tabular}{ll} 
(S TO E) & J/P- UNKN \\
FRONT HIT & E/MAIN RD \\
FIRST &
\end{tabular}
FIRST
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 01170058004 & \multicolumn{2}{|l|}{FRI 08/09/2017 15:10} & LIGHT & \multicolumn{4}{|l|}{TWICKENHAM RD JMW RD LEADING TO WEST MIDDLESEX HOSPITAL} & \multicolumn{2}{|l|}{LINK 129-141} & 516290/176400 \\
\hline \multicolumn{2}{|l|}{POLICE-AT SCENE} & ROAD-WET & RAINING & SINGLE CWY & OTHER JUN & GIVEW & & NO XING FACIL & & NONE IN 50M \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(54 YRS - F-REDA)} & SLIGHT & DRIVERRID & & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & \multicolumn{2}{|l|}{PED CYCLE} & \multicolumn{2}{|l|}{(54 YRS - F -} & \multicolumn{2}{|l|}{G/AHEAD - OTHER} & \multicolumn{3}{|l|}{(ETO W) COMMUTING} \\
\hline & & \multicolumn{2}{|l|}{BT-NEG} & \multicolumn{2}{|l|}{REDACT)} & & & O/S HIT FIRST & JCT & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (000)} & \multicolumn{2}{|l|}{CAR} & \multicolumn{2}{|l|}{(44 YRS - M -} & \multicolumn{2}{|l|}{TURNING-LEFT} & (WTOE) & J/P & \\
\hline & & \multicolumn{2}{|l|}{BT-NEG} & \multicolumn{2}{|l|}{REDACT)} & & & N/S HIT FIRST & JCT & \\
\hline V002 & A & \multicolumn{3}{|l|}{403 (POOR TURN OR MANOEUVRE)} & & V002 & A & \multicolumn{3}{|l|}{405 (FAILED TO LOOK PROPERLY)} \\
\hline V002 & A & \multicolumn{3}{|l|}{404 (FAILED TO SIGNAL OR MISLEADING SIGNAL)} & & V002 & A & 602 (CARELES & ECKL & JRRY) \\
\hline
\end{tabular}


\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 01170071682 & \multicolumn{2}{|l|}{TUE 21/11/2017 15:30} & LIGHT & \multicolumn{3}{|l|}{TWICKENHAM RD 51M W OF JM TEESDALE AVENUE} & LINK 129-141 & & 516330/176460 \\
\hline POLICE-AT SCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & NO JUN IN 20M & N/A & ZEBRA XING & & NONE IN 50M \\
\hline CASUALTY & 001 (001) & (61 YRS - F - REDA) & & SLIGHT & VEH/PILLION PAX & STANDING PASSENGER & & & \\
\hline VEHICLE & 001 (000) & \begin{tabular}{l}
MINIBUS >=17 PAX \\
BT-NOT REQ
\end{tabular} & & \[
\begin{aligned}
& \text { ( } 52 \text { YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & SLOWING/STOPPING & \begin{tabular}{l}
(SW TO NE) \\
DIDNOT \\
IMPACT
\end{tabular} & J/P - UNKN & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|}
\hline 01170072727 & \multicolumn{2}{|l|}{SAT 25/11/2017 12:54} & LIGHT & \multicolumn{3}{|l|}{TWICKENHAM RD JMW MAIN ENTRANCE RD WEST MIDDLESEX HOSPITAL} & \multicolumn{2}{|l|}{LINK 129-141} & 516300/176400 \\
\hline \multicolumn{2}{|l|}{POLICE-AT SCENE} & ROAD-DRY & WEATHERFINE & SINGLE CWY & OTHERJUN & GIVEWAY /UNCONT & ZEBRA XING & & NONE IN 50M \\
\hline CASUALTY & 001 (002) & \multicolumn{2}{|l|}{(37 YRS - M - REDA)} & SLIGHT & DRIVER/RID & & & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & \multicolumn{2}{|l|}{CAR} & \multicolumn{2}{|l|}{(61 YRS - M -} & \multirow[t]{2}{*}{TURNING RIGHT} & (S TO E) & J/P - UNKN & \\
\hline & & \multicolumn{2}{|l|}{BT-NEG} & REDACT) & & & N/S HIT FIRST & LIMAIN RD & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (000)} & \multicolumn{2}{|l|}{PED CYCLE} & (37 YRS - M - & & G/AHEAD - OTHER & ( NTOS ) & J/P - UNKN & \\
\hline & & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{BT - N/A}} & \multicolumn{2}{|l|}{\multirow[t]{2}{*}{REDACT)}} & & FRONT HIT & JCTMID & \\
\hline & & & & & & & FIRST & & \\
\hline V001 & A & \multicolumn{3}{|l|}{405 (FAILED TO LOOK PROPERLY)} & & V002 A & 701 (STATION & OR PARKED & \(E(S)\) ) \\
\hline
\end{tabular}


WEATHERFINE

POLICE-AT SCENE ROAD-DRY

NOT KNOWN HOW COLLISION OCCURRED
\begin{tabular}{|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (17 YRS - M - REDA) & SLIGHT & DRIVER/RIDER \\
\hline VEHICLE & 001 (000) & \begin{tabular}{l}
M/C 51-125CC \\
BT - NOT REQ
\end{tabular} & \[
\begin{aligned}
& \text { (17 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & SLOWING/STOPPING \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
CAR \\
BT - NOT REQ
\end{tabular} & \[
\begin{aligned}
& \text { (39 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & SLOWING/STOPPING \\
\hline V001 & A & 405 (FAILED TO LOOK PROPERLY) & & V002 \\
\hline
\end{tabular}

LONDON RD 20M SW OF JJW QUAKERS LANE
SINGLE CWY T/STAG JUN AUTO SIG
vooz

LINK 137-142
516425/176795
NO XING FACIL IN 50M NONE IN 50M
\begin{tabular}{ll} 
(E TO W) & J/P - UNKN \\
FRONT HIT & JCT APP \\
FIRST & \\
(E TO W) & JOURNEY P/O WORK \\
BACK HIT & JCT APP \\
FIRST &
\end{tabular}

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\(01180102712 \quad\) THU 19/04/2018 16:52

NOT KNOWN HOW COLLISION OCCURRED
\begin{tabular}{|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (36 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & \\
\hline VEHICLE & 001 (000) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - NOT REQ }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (36 YRS - F - } \\
& \text { REDACT) }
\end{aligned}
\] & & G/AHEAD - OTHER \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
CAR \\
BT - NOT REQ
\end{tabular} & \[
\begin{aligned}
& (38 \text { YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & G/AHEAD - OTHER \\
\hline V002 & A & 602 (CARELESS, REC & URRY) & & V002 \\
\hline V001 & A & 403 (POOR TURN OR & & & \\
\hline
\end{tabular}



 SECTION HANDLE BARS.
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (25 YRS - M - REDA) & SERIOUS & DRIVER/RIDER & & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{001 (000)} & TAXI/PHV & (43 YRS - M - & \multirow[t]{2}{*}{TURNING-LEFT} & (E TO W) & J/P - UNKN \\
\hline & & BT-DRV NOT CONTACTED & REDACT) & & N/S HIT FIRST & JCT APP \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (000)} & PED CYCLE & (25 YRS - M - & \multirow[t]{2}{*}{G/AHEAD - OTHER} & (E TO W) & JOURNEY P/O WORK \\
\hline & & BT - N/A & REDACT) & & FRONT HIT & JCT APP \\
\hline & & & & & FIRST & \\
\hline V001 & B & 405 (FAILED TO LOOK PROPERLY) & & V002 B & 406 (FAILED TO & GE OTHER PERSON'S PATH OR SPEED) \\
\hline V002 & B & 706 (DAZZLING SUN) & & V001 A & 509 (DISTRACT & IN VEHICLE) \\
\hline V002 & A & 510 (DISTRACTION OUTSIDE VEHICLE) & & & & \\
\hline
\end{tabular}

四
\(01180115917 \quad\) WED 20/06/2018 17:15
POLICE-AT SCENE ROAD-DRY

NOT KNOWN HOW COLLISION OCCURRED

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 01180134779 & \multicolumn{2}{|l|}{SUN 23/09/2018 09:25} & LIGHT & \multicolumn{4}{|l|}{TWICKENHAM RD JMW PARK RD ISLEWORTH} & \multicolumn{2}{|l|}{NODE 141} & 516520/176720 \\
\hline SELF-REPORTED & & ROAD-WET & RAINING & SINGLE CWY & T/STAG JUN & \multicolumn{2}{|l|}{GIVEWAY /UNCONT} & \multicolumn{2}{|l|}{NO XING FACIL IN 50M} & NONE IN 50M \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(16 YRS - M - REDA)} & SLIGHT & PEDESTRIAN & & WBOUND & \multicolumn{3}{|l|}{FROM DRIVERS O/SIDE} \\
\hline VEHICLE & 001 (000) & \multicolumn{2}{|l|}{\begin{tabular}{l}
CAR \\
BT - DRV NOT CONTACTED
\end{tabular}} & (? YRS UNKNOWN REDACT) & UNKNOWN S/R & \multicolumn{2}{|l|}{UNKNOWNS/R} & (MOVE UNKN) FRONT HIT FIRST & \[
\mathrm{J} / \mathrm{P}
\]
UNK & \\
\hline \multicolumn{11}{|l|}{72} \\
\hline 01180140095 & \multicolumn{2}{|l|}{FRI 19/10/2018 15:20} & LIGHT & \multicolumn{4}{|l|}{TWICKENHAM RD JM UNION LANE} & \multicolumn{2}{|l|}{LINK 129-141} & 516420/176580 \\
\hline POLICE-AT SCENE & & ROAD-DRY & WEATHERFINE & SINGLE CWY & T/STAG JUN & GIVEWAY /UNCONT & & \multicolumn{2}{|l|}{NO XING FACIL IN 50M} & NONE IN 50M \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (002) & \multicolumn{2}{|l|}{(23 YRS - M - REDA)} & SLIGHT & \multicolumn{3}{|l|}{DRIVER/RIDER} & & & \\
\hline VEHICLE & 001 (000) & \multicolumn{2}{|l|}{CAR} & \multicolumn{2}{|l|}{(32 YRS - F -} & \multicolumn{2}{|l|}{TURNING RIGHT} & (NW TO NE) O/S HIT FIRST & \multicolumn{2}{|l|}{J/P - UNKN} \\
\hline VEHICLE & 002 (000) & \multicolumn{2}{|l|}{M/C 51-125CC} & \multicolumn{2}{|l|}{(23 YRS - M -} & \multicolumn{2}{|l|}{G/AHEAD - OTHER} & (NE TO SW) & \multicolumn{2}{|l|}{JOURNEY P/O WORK} \\
\hline V002 & A & \multicolumn{6}{|l|}{403 (POOR TURN OR MANOEUVRE)} & & & \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline 01180148744 & THU 29/11 & & LIGHT & \multicolumn{3}{|l|}{UNION LANE JMW TWICKENHAM RD ISLEWORTH} & & \multicolumn{2}{|l|}{LINK 129-141} & 516430/176570 \\
\hline SELF-REPORTED & & ROAD-WET & RAINING & SINGLE CWY & SLIP RD & UNKNOWNS/R & & CNTL REFUGE & CTRLS & NONE IN 50M \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(56 YRS - F - REDA)} & SLIGHT & PEDESTRIAN & & SBOUND & \multicolumn{2}{|l|}{UNKNOWN/OTHER} & \\
\hline VEHICLE & 001 (000) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - DRV NO }
\end{aligned}
\] & TACTED & (? YRS UNKNOWN REDACT) & & UNKNOWN S/R & & (MOVE UNKN) BACK HIT FIRST & J/P - UNKN UNKNOWN S/R & \\
\hline \multicolumn{11}{|l|}{76} \\
\hline 01180154713 & \multicolumn{2}{|l|}{THU 27/12/2018 16:30} & LIGHT & \multicolumn{3}{|l|}{LONDON RD 40M E OF J/W HARTHAM RD} & & \multicolumn{2}{|l|}{LINK 137-142} & 516220/176700 \\
\hline SELF-REPORTED & & ROAD-DRY & \begin{tabular}{l}
WEATHER- \\
FINE
\end{tabular} & ONE-WAY ST & NO JUN IN 20M & N/A & & \multicolumn{2}{|l|}{ZEBRA XING} & UNKNOWN S/R \\
\hline \multicolumn{11}{|l|}{NOT KNOWN HOW COLLISION OCCURRED} \\
\hline CASUALTY & 001 (001) & \multicolumn{2}{|l|}{(34 YRS - F - REDA)} & SLIGHT & \multicolumn{3}{|l|}{DRIVER/RIDER} & & & \\
\hline CASUALTY & 002 (001) & \multicolumn{2}{|l|}{(? YRS - F - REDA)} & SLIGHT & VEH/PILLION PAX & \multicolumn{4}{|l|}{FRONT SEAT PASSENGER} & \\
\hline CASUALTY & 003 (001) & \multicolumn{2}{|l|}{(? YRS - F - REDA)} & SLIGHT & VEH/PILLION PAX & \multicolumn{4}{|l|}{REAR SEAT PASSENGER} & \\
\hline VEHICLE & 001 (000) & \multicolumn{2}{|l|}{BT- DRV NOT CONTACTED} & REDACT) & & WAITING-HELD UP & & \begin{tabular}{l}
(MOVE \\
UNKN) \\
BACK HIT \\
FIRST
\end{tabular} & J/P - UNKN & \\
\hline VEHICLE & 002 (000) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT - DRV NO }
\end{aligned}
\] & TACTED & \begin{tabular}{l}
(35 YRS - \\
UNKNOWN REDACT)
\end{tabular} & & G/AHEAD - OTHER & & (MOVE UNKN) FRONTHIT FIRST & J/P - UNKN & \\
\hline
\end{tabular}
\begin{tabular}{ll} 
LIGHT & TWICKENHAM RD J/W THACKERAY CLOSE \\
WEATHER- & UNKNOWN
\end{tabular}
 WAS STOPPED AT THE KERB SIDE I HAD JUST OVERTOOK AND THEN THE BUMP TO THE BIKE THE BIKE FALLING OVER AND THEN THE CAR STOPPED THEN PULLED AWAY QUICKLY
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (65 YRS - M - REDA) & SERIOUS & DRIVER/RIDER & & \\
\hline VEHICLE & 001 (000) & \begin{tabular}{l}
M/C \(>500 \mathrm{CC}\) \\
BT - DRV NOT CONTACTED
\end{tabular} & \[
\begin{aligned}
& \text { ( } 65 \text { YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & UNKNOWN S/R & \begin{tabular}{l}
(MOVE \\
UNKN) \\
UNKNOWN \\
S/R
\end{tabular} & J/P - UNKN UNKNOWN S/R \\
\hline VEHICLE & 002 (000) & \begin{tabular}{l}
CAR \\
BT - DRV NOT CONTACTED
\end{tabular} & \begin{tabular}{l}
(? YRS - \\
UNKNOWN REDACT)
\end{tabular} & UNKNOWN S/R & \begin{tabular}{l}
(MOVE \\
UNKN) \\
BACK HIT \\
FIRST
\end{tabular} & J/P - UNKN UNKNOWN S/R \\
\hline
\end{tabular}

\section*{78}
01190173162 WED 03/04/2019 16:15 LIGH
POLICE -AT SCENE ROAD-DRY
WEATHER- SINGLE CWY T/STAG JUN AUTO SIG

ON WEDNESDAY 3 APRIL 2019 AT 16:15 A COLLISION OCCURED ON TWICKENHAM ROAD, NEAR THE JUNCTION WITH TOWN FIELD ROAD. IN HOUNSLOW INVOLVING THREE CARS
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (60 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (000)} & CAR & (50 YRS - F - & WAITING - HELD UP & (E TO W) & JCT APP \\
\hline & & \multirow[t]{2}{*}{BT - NEG} & \multirow[t]{2}{*}{REDACT)} & & DIDNOT & \\
\hline & & & & & IMPACT & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{002 (000)} & CAR & (60 YRS - F - & \multirow[t]{3}{*}{WAITING-HELD UP} & (E TO W) & COMMUTING \\
\hline & & \multirow[t]{2}{*}{BT-NEG} & \multirow[t]{2}{*}{REDACT)} & & DID NOT & JCT APP \\
\hline & & & & & IMPACT & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{003 (000)} & CAR & (45 YRS - M - & G/AHEAD - OTHER & (E TO W) & JCT APP \\
\hline & & BT-NEG & REDACT) & & FRONTHIT & \\
\hline & & & & & FIRST & \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (49 YRS - F - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (000)} & CAR & (49 YRS - F - & \multirow[t]{3}{*}{G/AHEAD - OTHER} & (W TO E) & \multirow[t]{3}{*}{JCTMID} \\
\hline & & \multirow[t]{2}{*}{BT - NOT REQ} & \multirow[t]{2}{*}{REDACT)} & & FRONT HIT & \\
\hline & & & & & FIRST & \\
\hline VEHICLE & 002 (000) & TAXI/PHV & (36 YRS - M - & G/AHEAD - OTHER & ( NTOS ) & JOURNEY P/O WORK \\
\hline & & BT-NOT REQ & REDACT) & & O/S HIT FIRST & JCTMID \\
\hline V001 & A & 405 (FAILED TO LOOK PROPERLY) & & V001 A & 301 (DISOBEY & UTOMATIC TRAFFIC SIGNAL) \\
\hline
\end{tabular}

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 PASSENGER SEATS) AND ONE CAR
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (57 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & & \\
\hline CASUALTY & 002 (001) & (41 YRS - F - REDA) & SLIGHT & VEH/PILLION PAX & SEATED PASSENGER & & \\
\hline CASUALTY & 003 (002) & (27 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & & \\
\hline CASUALTY & 004 (002) & (25 YRS - F - REDA) & SLIGHT & VEH/PILLION PAX & FRONT SEAT PASSENGER & & \\
\hline VEHICLE & 001 (000) & LONDON BUS BT-NEG & (57 YRS - M REDACT) & & TURNING RIGHT & \begin{tabular}{l}
(S TO E) \\
FRONT HIT \\
FIRST
\end{tabular} & JOURNEY P/O WORK JCTMID \\
\hline VEHICLE & 002 (000) & \[
\begin{aligned}
& \text { CAR } \\
& \text { BT-NEG }
\end{aligned}
\] & \[
\begin{aligned}
& \text { (27 YRS - M - } \\
& \text { REDACT) }
\end{aligned}
\] & & G/AHEAD - OTHER & ( NTOS ) FRONTHIT FIRST & COMMUTING JCTMID \\
\hline V002
V001 & B & 406 (FAILED TO JUDG 406 (FAILED TO JUDG & 'S PATH OR SPEED) & & V002 B & 401 (JUNCTI & ERSHOOT) \\
\hline
\end{tabular}

ON WEDNESDAY 22 MAY 2019 AT 19:30 A COLLISION OCCURED ON LONDON ROAD, NEAR THE JUNCTION WITH TEESDALE AVENUE. IN HOUNSLOW INVOLVING ONE CAR AND ONE PEDAL CYCLE
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (001) & (30 YRS - M - REDA) & SERIOUS & DRIVER/RIDE & & & \\
\hline VEHICLE & 001 (000) & PED CYCLE & ( 30 YRS - M - & UNKNOWN & UNKNOWN S/R & (MOVE & COMMUTING \\
\hline & & BT-N/A & REDACT) & S/R & & UNKN) & UNKNOWN S/R \\
\hline & & & & & & FRONT HIT & \\
\hline & & & & & & FIRST & \\
\hline VEHICLE & 002 (000) & CAR & (? YRS - & & UNKNOWN S/R & (MOVE & J/P - UNKN \\
\hline & & BT- DRV NOT CONTACTED & UNKNOWN - & & & UNKN) & UNKNOWN S/R \\
\hline & & & REDACT) & & & FRONT HIT & \\
\hline & & & & & & FIRST & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline 01190184404 & FRI 31/05/2019 23:45 & DARK & \multicolumn{3}{|l|}{TWICKENHAM RD, NR JUNCT WTH TOWNFIELD WAY.} & LINK 129-141 & 516241/176241 \\
\hline POLICE-AT SCENE & ROAD-DRY & WEATHER- & SINGLE CWY & T/STAG JUN & GIVEWAY /UNCONT & NO XING FACIL IN 50M & NONE IN 50M \\
\hline
\end{tabular}

ON FRIDAY 31 MAY 2019 AT 23:45 A COLLISION OCCURED ON TWICKENHAM ROAD, NEAR THE JUNCTION WITH TOWNFIELD WAY. IN HOUNSLOW INVOLVING ONE CAR AND ONE PEDAL CYCLE
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline CASUALTY & 001 (002) & (40 YRS - M - REDA) & SLIGHT & DRIVER/RIDER & & \\
\hline \multirow[t]{3}{*}{VEHICLE} & \multirow[t]{3}{*}{001 (000)} & CAR & (26 YRS - M - & TURNING RIGHT & (S TO E) & JCTMID \\
\hline & & BT-NOT REQ & REDACT) & & FRONTHIT & \\
\hline & & & & & FIRST & \\
\hline \multirow[t]{2}{*}{VEHICLE} & \multirow[t]{2}{*}{002 (000)} & PED CYCLE & (40 YRS - M - & G/AHEAD - OTHER & ( NTOS ) & JCT APP \\
\hline & & BT-N/A & REDACT) & & O/S HIT FIRST & \\
\hline V001 & A & 405 (FAILED TO LOOK PROPERLY) & & V001 B & 307 (TRAVELLIN & OO FAST FOR CONDITIONS) \\
\hline
\end{tabular}

\section*{London Rd Area Personal Injury Collisions 60 mths to end of May 2019 (Provisional)}

\author{
Summary of Collisions Selected Site Reference and Description Date Period \\ Accident Count \\ Topic Based Query 82 \\ The description of how the collision occurred and the contributory factors are the reporting officer's opinion at the time of reporting and may not be the result of extensive investigation
}
\begin{tabular}{|l|l|l|}
\hline Pedestrian & 16 & \(20 \%\) \\
\hline Wet & 11 & \(13 \%\) \\
\hline Dark & 16 & \(20 \%\) \\
\hline
\end{tabular}
\begin{tabular}{|l|l|l|}
\hline Fatal & 0 & \(0 \%\) \\
\hline Serious & 7 & \(9 \%\) \\
\hline Slight & 75 & \(91 \%\) \\
\hline
\end{tabular}

Please note that these figures represent the number of collisions that resulted in each type of casualty.
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\
\hline Reference & 0114TX20436 & 0114TX20462 & 0114TX20661 & 0114TX20985 & 0115TX20049 & 0115TX20072 & 0115 TX20104 & 0115TX20121 & 0115TX20182 & 0115TX20254 \\
\hline Day & THURSDAY & TUESDAY & SATURDAY & THURSDAY & FRIDAY & FRIDAY & TUESDAY & THURSDAY & WEDNESDAY & WEDNESDAY \\
\hline Date & 19/06/2014 & 24/06/2014 & 23/08/2014 & 18/09/2014 & 23/01/2015 & 06/02/2015 & 17/02/2015 & 12/02/2015 & 18/03/2015 & 15/04/2015 \\
\hline Time & 14:00 & 17:35 & 00:43 & 14:00 & 10:45 & 13:38 & 17:30 & 16:45 & 08:30 & 15:45 \\
\hline Light Conds & LIGHT & LIGHT & DARK & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT \\
\hline Road & DRY & DRY & DRY & DRY & FROST/ICE & DRY & DRY & DRY & DRY & DRY \\
\hline Surface & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SERIOUS \\
\hline Severity & & & & & & & & & & \\
\hline \multicolumn{11}{|l|}{Conflict} \\
\hline \multicolumn{11}{|l|}{Ped} \\
\hline Location & 405 V002 A & 403 V002 A & 410 V001 A & 403 V002 A & 405 V001 A & 406 V002 A & 405 V001 A & 602 V001 B & 701 V001 A & 403 V002 A \\
\hline Contributory & 308 V002 A & 405 V002 A & & 308 V002 B & 103 V001 B & 403 V002 A & 305 V001 B & 408 V001 A & 701 V002 A & 405 V002 A \\
\hline (* denotes pre- & 602 V002 A & 406 V002 A & & 406 V002 B & & 405 V002 A & & 406 V002 B & 405 V001 A & 406 V002 A \\
\hline 2005) & & 602 V002 A & & & & & & & 405 V002 A & 602 V002 A \\
\hline Easting/Northing & 516220 & 516260 & 516140 & 516260 & 516260 & 516510 & 516520 & 516240 & 516410 & 516480 \\
\hline & 176690 & 176700 & 176660 & 176700 & 176340 & 176840 & 176850 & 176700 & 176790 & 176820 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 11 & 12 & 13 & 14 & 15 & 16 & 17 & 18 & 19 & 20 \\
\hline Reference & 0115 TX20377 & 0115TX20392 & 0115TX20520 & 0115TX20618 & 0115TX20630 & \(0115 T X 20707\) & 0115TX20740 & 0115TX20779 & \(0115 T \times 20801\) & 01160000903 \\
\hline Day & WEDNESDAY & MONDAY & THURSDAY & THURSDAY & WEDNESDAY & WEDNESDAY & TUESDAY & WEDNESDAY & SATURDAY & WEDNESDAY \\
\hline Date & 03/06/2015 & 01/06/2015 & 23/07/2015 & 03/09/2015 & 08/07/2015 & 30/09/2015 & 13/10/2015 & 07/10/2015 & 10/10/2015 & 09/11/2016 \\
\hline Time & 07:50 & 15:50 & 18:12 & 15:40 & 18:25 & 08:50 & 15:45 & 07:15 & 11:50 & 15:37 \\
\hline Light Conds & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT \\
\hline Road & DRY & DRY & DRY & DRY & DRY & DRY & DRY & WET/DAMP & DRY & DRY \\
\hline \multicolumn{11}{|l|}{\multirow[t]{2}{*}{}} \\
\hline & & & & & & & & & & \\
\hline \multicolumn{11}{|l|}{Conflict} \\
\hline Ped & & & & & & & 0 & & & \\
\hline Location & 701 V001 A & 405 V001 A & 408 V001 A & 505 V001 A & 403 V001 A & 904 V002 A & 802 C 001 A & 406 V001 B & 403 V002 A & 406 V001 B \\
\hline Contributory & 701 V002 A & 602 V001 A & 405 V001 A & & 405 V001 A & & 403 V001 A & 406 V002 B & 305 V002 A & \\
\hline (* denotes pre- & & & 409 V001 A & & 406 V001 A & & 803 C001 A & & & \\
\hline 2005) & & & & & 602 V001 A & & & & & \\
\hline Easting/Northing & 516520 & 515940 & 516440 & 516290 & 515940 & 516230 & 516300 & 516230 & 516510 & 516060 \\
\hline & 176730 & 176550 & 176610 & 176390 & 176550 & 176240 & 176410 & 176230 & 176840 & 176430 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30 \\
\hline Reference & 01160003754 & 01160007520 & 01160009218 & 01160017318 & 01160017394 & 01160017564 & 01160017889 & 01160017989 & 0116TX20024 & 0116TX20044 \\
\hline Day & TUESDAY & SATURDAY & TUESDAY & THURSDAY & MONDAY & WEDNESDAY & THURSDAY & WEDNESDAY & TUESDAY & THURSDAY \\
\hline Date & 15/11/2016 & 17/12/2016 & 20/12/2016 & 01/09/2016 & 19/09/2016 & 07/09/2016 & 08/09/2016 & 14/09/2016 & 19/01/2016 & 21/01/2016 \\
\hline Time & 06:50 & 15:25 & 17:30 & 23:35 & 23:25 & 14:43 & 18:36 & 17:20 & 18:57 & 13:12 \\
\hline Light Conds & DARK & DARK & DARK & DARK & DARK & LIGHT & LIGHT & LIGHT & DARK & LIGHT \\
\hline Road & DRY & DRY & UNKNOWN & DRY & DRY & UNKNOWN & DRY & DRY & DRY & DRY \\
\hline Surface & SLIGHT & SLIGHT & (S/R) & SLIGHT & SLIGHT & (S/R) & SLIGHT & SERIOUS & SERIOUS & SLIGHT \\
\hline Severity & & & SLIGHT & & & SLIGHT & & & & \\
\hline Conflict & & & & & & & & & & \\
\hline Ped & & & & & & & X & & & \\
\hline Location & & 108 V001 A & & 310 V002 B & 602 V002 B & & 701 V001 A & 706 V001 B & 403 V002 A & 406 V002 A \\
\hline Contributory & & & & 406 V001 B & 407 V002 A & & 304 V001 A & 405 V001 B & 406 V002 B & 403 V002 A \\
\hline (* denotes pre- & & & & 406 V002 B & & & 602 V001 A & & 602 V002 B & \\
\hline 2005) & & & & & & & & & & \\
\hline Easting/Northing & 516250 & 516520 & 516255 & 516510 & 516520 & 515940 & 515930 & 515940 & 516510 & 516480 \\
\hline & 176330 & 176720 & 176320 & 176820 & 176840 & 176550 & 176540 & 176550 & 176830 & 176830 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 31 & 32 & 33 & 34 & 35 & 36 & 37 & 38 & 39 & 40 \\
\hline Reference & 0116TX20150 & \(0116 T \times 20166\) & 0116TX20209 & 0116TX20234 & 0116TX20238 & 0116TX20268 & 0116TX20328 & 0116TX20331 & 0116TX20400 & 0116TX20425 \\
\hline Day & SATURDAY & THURSDAY & SATURDAY & TUESDAY & WEDNESDAY & SUNDAY & FRIDAY & SUNDAY & TUESDAY & FRIDAY \\
\hline Date & 13/02/2016 & 25/02/2016 & 12/03/2016 & 05/04/2016 & 30/03/2016 & 24/01/2016 & 15/04/2016 & 17/04/2016 & 24/05/2016 & 03/06/2016 \\
\hline Time & 18:25 & 17:30 & 07:45 & 08:56 & 11:10 & 16:40 & 17:30 & 00:13 & 15:28 & 17:14 \\
\hline Light Conds & DARK & DARK & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & DARK & LIGHT & LIGHT \\
\hline Road & WET/DAMP & WET/DAMP & FROSTICE
SLIGHT & DRY & DRY & DRY & DRY & DRY & DRY & DRY \\
\hline \multicolumn{11}{|l|}{\multirow[t]{2}{*}{\(\begin{array}{lllllll}\text { Surface } & \text { SLIGHT } & \text { SLIGHT } & \text { SLIGHT } & \text { SLIGHT } & \text { SLIGHT } & \text { SLIGHT }\end{array}\)}} \\
\hline & & & & & & & & & & \\
\hline \multicolumn{11}{|l|}{Conflict} \\
\hline Ped & & & & & X & & & & & 50M \\
\hline Location & 707 V001 B & 304 V002 A & 403 V002 A & 410 V001 A & 803 C001 A & 406 V002 B & 408 V002 A & 101 V001 A & 407 V001 A & 403 V001 A \\
\hline Contributory & 405 V001 A & 310 V002 A & & & 804 C001 A & 408 V002 B & & & 405 V001 A & 405 V001 A \\
\hline (* denotes pre- & 301 V001 A & 405 V002 A & & & 808 C001 B & & & & 403 V001 A & 602 V001 A \\
\hline 2005) & 510 V001 B & 602 V002 A & & & & & & & 602 V002 B & 802 C001 A \\
\hline & 602 V001 A & & & & & & & & & 803 C001 A \\
\hline & & & & & & & & & & 801 C001 A \\
\hline Easting/Northing & 516510 & 516530 & 516260 & 515950 & 516530 & 516260 & 516240 & 516200 & 516250 & 516490 \\
\hline & 176840 & 176840 & 176340 & 176550 & 176840 & 176350 & 176290 & 176680 & 176710 & 176830 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 41 & 42 & 43 & 44 & 45 & 46 & 47 & 48 & 49 & 50 \\
\hline Reference & 0116TX20459 & \(0116 T X 20542\) & \(0116 T\) T20646 & 0116TX20680 & 01170010680 & 01170025421 & 01170025908 & 01170027226 & 01170031187 & 01170033765 \\
\hline Day & WEDNESDAY & SATURDAY & TUESDAY & MONDAY & TUESDAY & WEDNESDAY & SATURDAY & WEDNESDAY & FRIDAY & TUESDAY \\
\hline Date & 15/06/2016 & 16/07/2016 & 30/08/2016 & 15/08/2016 & 10/01/2017 & 15/03/2017 & 11/03/2017 & 22/03/2017 & 07/04/2017 & 25/04/2017 \\
\hline Time & 08:15 & 17:47 & 08:06 & 17:22 & 07:00 & 11:00 & 13:30 & 07:32 & 17:30 & 08:40 \\
\hline Light Conds & LIGHT & LIGHT & LIGHT & LIGHT & DARK & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT \\
\hline Road & DRY & DRY & DRY & DRY & DRY & DRY & WET/DAMP & WET/DAMP & DRY & DRY \\
\hline Surface Severity & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT \\
\hline \multicolumn{11}{|l|}{Conflict} \\
\hline Ped & & & & & 0 & & & & & 0 \\
\hline Location & 403 V001 A & 505 V001 B & 403 V002 B & 403 V001 A & 802 C001 A & 408 V001 B & & 404 V001 B & 406 V001 A & \\
\hline Contributory & 403 V002 A & 410 V001 A & 405 V002 B & 405 V001 A & & & & 701 V001 A & 403 V002 B & \\
\hline (* denotes pre- & 405 V001 A & & 406 V002 B & & & & & 701 V002 A & & \\
\hline \multirow[t]{3}{*}{2005)} & 405 V002 A & & & & & & & 405 V001 A & & \\
\hline & 602 V001 A & & & & & & & 405 V002 A & & \\
\hline & 601 V002 A & & & & & & & 602 V002 B & & \\
\hline \multirow[t]{2}{*}{Easting/Northing} & 516450 & 516300 & 516510 & 516000 & 516350 & 516340 & 516400 & 516060 & 516310 & 516530 \\
\hline & 176610 & 176410 & 176880 & 176590 & 176490 & 176470 & 176550 & 176640 & 176730 & 176840 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 51 & 52 & 53 & 54 & 55 & 56 & 57 & 58 & 59 & 60 \\
\hline Reference & 01170037774 & 01170038705 & 01170046082 & 01170047938 & 01170050363 & 01170051099 & 01170052261 & 01170056935 & 01170058004 & 01170062354 \\
\hline Day & TUESDAY & SUNDAY & SUNDAY & TUESDAY & TUESDAY & FRIDAY & SATURDAY & SATURDAY & FRIDAY & TUESDAY \\
\hline Date & 16/05/2017 & 21/05/2017 & 02/07/2017 & 11/07/2017 & 25/07/2017 & 28/07/2017 & 05/08/2017 & 02/09/2017 & 08/09/2017 & 03/10/2017 \\
\hline Time & 17:45 & 15:23 & 14:27 & 20:32 & 14:40 & 15:10 & 18:00 & 10:20 & 15:10 & 15:00 \\
\hline Light Conds & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT \\
\hline Road & DRY & DRY & DRY & WET/DAMP & DRY & DRY & DRY & DRY & WET/DAMP & DRY \\
\hline Surface Severity & SLIGHT & SLIGHT & SERIOUS & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT \\
\hline Conflict & & & & & & & & & & \\
\hline Ped & 0 & & 0 & & 0 & 0 & 0 & 0 & & \\
\hline Location & 405 V001 B & 403 V002 A & 802 C001 A & 707 V002 A & 403 V001 B & 405 V001 B & 405 V001 B & 405 V001 A & 403 V002 A & 999 V001 B \\
\hline Contributory & & & & 405 V002 A & & & & & 405 V002 A & \\
\hline (* denotes pre- & & & & & & & & & 404 V002 A & \\
\hline 2005) & & & & & & & & & 602 V002 A & \\
\hline Easting/Northing & 516450 & 515940 & 516520 & 516520 & 516400 & 516260 & 515940 & 516520 & 516290 & 516510 \\
\hline & 176620 & 176550 & 176830 & 176730 & 176350 & 176340 & 176550 & 176840 & 176400 & 176820 \\
\hline
\end{tabular}

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline & 71 & 72 & 73 & 74 & 75 & 76 & 77 & 78 & 79 & 80 \\
\hline Reference & 01180134779 & 01180140095 & 01180145623 & 01180146403 & 01180148744 & 01180154713 & 01180156892 & 01190173162 & 01190178065 & 01190178261 \\
\hline Day & SUNDAY & FRIDAY & TUESDAY & SATURDAY & THURSDAY & THURSDAY & MONDAY & WEDNESDAY & WEDNESDAY & WEDNESDAY \\
\hline Date & 23/09/2018 & 19/10/2018 & 13/11/2018 & 17/11/2018 & 29/11/2018 & 27/12/2018 & 31/12/2018 & 03/04/2019 & 01/05/2019 & 01/05/2019 \\
\hline Time & 09:25 & 15:20 & 14:30 & 13:45 & 07:40 & 16:30 & 12:00 & 16:15 & 00:30 & 21:02 \\
\hline Light Conds & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & LIGHT & DARK & DARK \\
\hline Road & WET/DAMP & DRY & DRY & DRY & WET/DAMP & DRY & WET/DAMP & DRY & DRY & DRY \\
\hline Surface Severity & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SLIGHT & SERIOUS & SLIGHT & SLIGHT & SLIGHT \\
\hline Conflict & & & & & & & & & & \\
\hline Ped & 0 & & 0 & & 0 & & & & & \\
\hline Location & & 403 V002 A & & & & & & 406 V003 A & 405 V001 A & 406 V002 B \\
\hline Contributory & & & & & & & & & 301 V001 A & 401 V002 B \\
\hline (* denotes pre- & & & & & & & & & & 406 V001 B \\
\hline 2005) & & & & & & & & & & \\
\hline Easting/Northing & 516520 & 516420 & 516310 & 516517 & 516430 & 516220 & 516230 & 516236 & 516520 & 516524 \\
\hline & 176720 & 176580 & 176390 & 176814 & 176570 & 176700 & 176240 & 176240 & 176843 & 176852 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|}
\hline & 81 & 82 \\
\hline Reference & 01190182937 & 01190184404 \\
\hline Day & WEDNESDAY & FRIDAY \\
\hline Date & 22/05/2019 & 31/05/2019 \\
\hline Time & 19:30 & 23:45 \\
\hline Light Conds & LIGHT & DARK \\
\hline Road & DRY & DRY \\
\hline Surface & SERIOUS & SLIGHT \\
\hline Severity & & \\
\hline \multicolumn{3}{|l|}{Conflict} \\
\hline \multicolumn{3}{|l|}{Ped} \\
\hline \multicolumn{2}{|l|}{Location} & 405 V001 A \\
\hline \multicolumn{2}{|l|}{Contributory} & 307 V001 B \\
\hline \multicolumn{3}{|l|}{(* denotes pre-} \\
\hline \multicolumn{3}{|l|}{2005)} \\
\hline Easting/Northing & 516274 & 516241 \\
\hline & 176714 & 176241 \\
\hline
\end{tabular}


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\section*{Appendix F - PTAL Report}

\begin{tabular}{|l||}
\hline PTAL output for Base Year \\
2 \\
TW/ 5QE \\
Brentford, Isleworth TW7 5QE, UK \\
Easting: 516409, Northing: 177356 \\
Grid Cell: 64962 \\
Report generated: 30/08/2019 \\
\\
\hline Calculation Parameters \\
Dayof Week \\
Time Period \\
Walk Speed \\
Bus Node Max. Walk Access Time (mins) \\
Bus ReliabilityFactor \\
LU Station Max. Walk Access Time (mins) \\
LU ReliabilityFactor \\
National Rail Station Max. Walk Access Time (mins) \\
National Rail ReliabilityFactor \\
\hline
\end{tabular}

Map key-PTAL
\begin{tabular}{|c|c|}
\hline No (Worst) & \(\square 1 \mathrm{a}\) \\
\hline 1 b & 2 \\
\hline 3 & 4 \\
\hline 5 & 6a \\
\hline 6 b (Best) & \\
\hline
\end{tabular}

Map layers
- PTAL (cell size: 100 m )
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{11}{|l|}{Calculation data} \\
\hline Mode & Stop & Route & Distance (metres) & Frequency(vph) & Walk Time (mins) & SWT (mins) & TAT (mins) & EDF & Weight & A \\
\hline Bus & OSTERLEY GIUETTE CORNER & H91 & 457.26 & 6 & 5.72 & 7 & 12.72 & 2.36 & 1 & 2.36 \\
\hline Bus & SYON LANE STATION & H28 & 255.91 & 3 & 3.2 & 12 & 15.2 & 1.97 & 0.5 & 0.99 \\
\hline Rail & Syon Lane & 'TWCKNHM-WATRLMN 2R03' & 280.88 & 0.33 & 3.51 & 91.66 & 95.17 & 0.32 & 0.5 & 0.16 \\
\hline Rail & Syon Lane & 'WATRLMN-WATRLMN 2 209' & 280.88 & 2 & 3.51 & 15.75 & 19.26 & 1.56 & 1 & 1.56 \\
\hline Rail & Syon Lane & 'STAINES-WATRLMN 2 S10' & 280.88 & 0.33 & 3.51 & 91.66 & 95.17 & 0.32 & 0.5 & 0.16 \\
\hline Rail & Syon Lane & 'WEYBDGB-WATRLMN 2 S12 & 280.88 & 1.67 & 3.51 & 18.71 & 22.23 & 1.35 & 0.5 & 0.67 \\
\hline Rail & Syon Lane & 'WATRLMN-WEYBDGB 2S13' & 280.88 & 2 & 3.51 & 15.75 & 19.26 & 1.56 & 0.5 & 0.78 \\
\hline \multirow[t]{2}{*}{Rail} & Syon Lane & 'WATRLMN-HOUNSLW2S91' & 280.88 & 0.33 & 3.51 & 91.66 & 95.17 & 0.32 & 0.5 & 0.16 \\
\hline & & & & & & & & & Total Grid Cell A: & 6.84 \\
\hline
\end{tabular}

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\section*{Appendix G - Public Transport Accessibility Plans}


\section*{Legend \\ - Homebase Site \\ Bus Catchment Route Plan}

\section*{Bus Services}
- H28

H91
- N9
- 237
- E8
\(-235\)

Title
Bus
Bus Catchment Route Plan

Project
Homebase site, Syon Lane

St Edward Homes Ltd
\begin{tabular}{|l|l|}
\hline \begin{tabular}{l} 
Date \\
08/10/2019
\end{tabular} & \begin{tabular}{l} 
Scale \\
\(1: 50000\)
\end{tabular} \\
\hline \begin{tabular}{l} 
Figure \\
Insert 6.3
\end{tabular} \\
\hline \begin{tabular}{l} 
Checked by \\
CheckedBy
\end{tabular} & \begin{tabular}{l} 
Number \\
1
\end{tabular} \\
\hline
\end{tabular}

HaskoningDHV
Enhancing Society Together

\section*{Legend}

\section*{\(\star\) Homebase Site}

Public Transport Isochrone Travel time

10 mins
20 mins
30 mins
60 mins

Bracknell

Royal
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Appendix H - Proposed Pedestrian and Cycle Infrastructure


Figure 5.4:
Spatial Strategy for Great West Corridor West

\section*{Context}
[-.-.] London Borough of Hounslow boundary
\(\square\) Great West Corridor study area Building contributing to character and legibility
050. Conservation Are

Listed Buildings
\(\square\) Open space
\(\square\) Waterbody
Prefered Industrial Location
\(\longrightarrow\) Motorway
_- National railway line
\([\Rightarrow\) Station
(8) Existing taller building/structure
\(\longrightarrow\) River Brent walk pedestrian/cycle route
.......) Cycle Superhighway 9 (TfL proposed route)
\(\cdots \cdots\) Great West Road Cycleway
Proposed
Office
IIIIIII Office-led mixed-use with residential
wans Empoyment-led mixed-use
\(\square\) Residential
IIIIII Residential-led mixed-use
Light industrial/commercial use
Creative industries with ancillary retail uses
Retail frontage
School
- Sky campus
= \(=\) Non-residential frontage
\(=\) Southall to Brentford Rail Link
memen New Station (Brentford-Golden Mile) Potential local landmark
\(\Rightarrow\) Great West Corridor Improvement
Proposed new open space
\(\square\) Enhanced open space Proposed public space
\(\leftrightarrow\) Pedestrian/cycle route
(-․). Desirable future pedestrian/cycle route
\(\longrightarrow\) Boston Manor Boardwalk
\(\ldots\) Boston Manor Cycle Route improvement

\section*{\(\because\) Focal are}
] Pedestrian/Cycle railway bridge
- Crossing improvement

\section*{Cycle Superhighway 9}

\section*{Kensington Olympia to Hounslow}

Cycle Superhighway 9 (CS9)
Kensington Olympia to Brentford town centre
CS9 Brentford to Hounslow
(subject to future consultation)

\begin{tabular}{l}
\(\square\) \\
\(\square\) \\
\hline
\end{tabular}Segregated two-way cycle track replaces traffic/bus lane and/or narrows footway Segregated one-way cycle track replaces traffic lane and/or narrows footway


Cyclists use 24-hour bus lane
Cyclists use quieter roads


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Appendix I - Proposed E1 and H28 Bus Routes



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\section*{Appendix J - Pedestrian Flow Surveys}

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\section*{Tesco and Homebase Development Sites, Syon Lane, Osterley}

\section*{Survey Overview}

Please find below a high level summary of the pedestrian surveys undertaken in association with the development projects at the Homebase and Tesco sites, Syon Lane. The surveys were undertaken from Saturday 29 \({ }^{\text {th }}\) June to Tuesday \(9^{\text {th }}\) July 2019.

\section*{Pedestrian Demand - In and around the Homebase Site}

In and around the weekday morning peak hour, the surveys identify platoons of pedestrians crossing Syon Lane, in the vicinity of Syon Lane station. Peak demand takes place from 08:45 to 09:00, when 346 pedestrian cross the road from the direction of the station and walk northbound, on the eastern side of the Syon Lane carriageway, heading towards the Homebase site access and the A4.


In the opposite direction, peak pedestrian movements occur in the early evening from 17:45 to 18:00, at which time 139 pedestrians cross the carriageway routing towards Syon Lane station.

Comparatively few pedestrians cross the carriageway at the existing staggered signal control crossing in the vicinity of Northumberland Avenue. From 07:00 to 10:00 (a 3-hour period) on a weekday morning, 35 pedestrians crossed the Syon Lane carriageway in this location. From 16:00 to 19:00, 137 pedestrians crossed the carriageway in this location.


\section*{Pedestrian Demand - Across A4 Great West Road}

The underpass, beneath the A4, is observed to be well used. On a weekday morning, from 08:45 to 09:00 (15 minute period), 206 pedestrians were observed to exit the underpass on the northern side of the A4.


In the same time period, only 9 pedestrians routed across the A4 via the at surface crossing, located on the western side of the A4/ Syon Lane junction.


\section*{On-street Car Parking Demand Surveys}

Lambeth style surveys have been undertaken to establish on-street car parking demand, in the vicinity of the Tesco and Homebase development sites. For an approximate 200 metre walk distance from both the Tesco and Homebase sites combined, the following on-street car parking demand data has been obtained.
\begin{tabular}{|r|c|c|c|}
\hline & \multicolumn{3}{c|}{ Occupancy (\%) } \\
Day & Wed & Thu & Jul-2019 \\
Restriction & \(00: 30\) & \(00: 30\) & Capacity \\
Red Route Clearway & \(0 \%\) & \(0 \%\) & \(\mathbf{2 7}\) \\
Zigzag Lines & \(0 \%\) & \(0 \%\) & 35 \\
Pedestrian Crossing & - & - & \(\mathbf{0}\) \\
Double Yellow & \(1 \%\) & \(0 \%\) & \(\mathbf{1 7 0}\) \\
Bus Stop / Bus Stand & \(0 \%\) & \(0 \%\) & \(\mathbf{2 4}\) \\
Unrestricted & \(20 \%\) & \(20 \%\) & \(\mathbf{2 2 5}\) \\
Narrow & \(3 \%\) & \(3 \%\) & 364 \\
Drop Kerb & \(2 \%\) & \(2 \%\) & \(\mathbf{9 6}\) \\
Single Yellow & \(23 \%\) & \(15 \%\) & \(\mathbf{1 3}\) \\
White Line / Drop Kerb & \(0 \%\) & \(0 \%\) & \(\mathbf{5}\) \\
Parking Bay & \(50 \%\) & \(42 \%\) & \(\mathbf{1 2}\) \\
Disabled Bay & \(75 \%\) & \(63 \%\) & \(\mathbf{8}\) \\
Resident Permit Holders & \(74 \%\) & \(72 \%\) & \(\mathbf{3 1 0}\) \\
Red Route Parking Bay & \(0 \%\) & \(25 \%\) & \(\mathbf{8}\) \\
Double Red & \(0 \%\) & \(0 \%\) & \(\mathbf{1 7 5}\) \\
Single Red & \(0 \%\) & \(0 \%\) & \(\mathbf{8}\) \\
All & \(\mathbf{2 0 \%}\) & \(\mathbf{2 0 \%}\) & \(\mathbf{1 4 8 0}\) \\
\hline
\end{tabular}

The surveys have established that 'permit holder' car parking bays retain an overall reserved capacity within the study area.

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\section*{Appendix K - Pedestrian Comfort (A4 underpass)}

\section*{MAYOR OF LONDON}
\begin{tabular}{|c|c|c|c|c|c|}
\hline Sign off & Assessed By Reviewed By & & \[
\begin{aligned}
& \hline \text { Date } \\
& \hline \text { Date }
\end{aligned}
\] & & \\
\hline \multirow[t]{8}{*}{Summary Info} & Location Name & Surveyed AM Peak Hour & Surveyed AM Peak 15 Mins & Proposed AM Peak Hour & Proposed AM Peak 15 Mins \\
\hline & Location Type & Full Footway Width & Full Footway Width & Full Footway Width & Full Footway Width \\
\hline & Area Type & High Street & High Street & High Street & High Street \\
\hline & Average Flow (PPH) & 312 & 599 & 664 & 951 \\
\hline & Peak Hour Flow (PPH) & 599 & 836 & 955 & 1,192 \\
\hline & Total Footway Width & 1.8m & 1.8m & 1.8m & 1.8m \\
\hline & Clear Footway Width & 1.8 & 1.8m & 1.8m & 1.8m \\
\hline & Total Street Furniture Impact & Om & Om & om & om \\
\hline \multirow[t]{3}{*}{Pedestrian Comfort
(At peak hour flow (At peak hour flow levels)} & Pedestrian Comfort Level (PCL) & A : 6 f ppmm & A \(: 8\) ppmm & B+:9 ppmm & \({ }^{\text {B }}\) : 11 ppmm \\
\hline & Total Width Required for PCL \({ }^{\text {B }}+\) & 1.50 & 1.50 & 1.50 & 1.66 \\
\hline & Clear Width Required For PCL B+ & 1.50 & 1.50 & 1.50 & 1.66 \\
\hline \multirow[t]{3}{*}{Pedestrian Comfort (Average of Maximum Activity)} & Pedestrian Comfort Level (PCL) & B+:9 ppmm & B. : 17 ppmm & c+ \({ }^{18} \mathbf{1 8} \mathrm{pmm}\) & C.: 26 ppmm \\
\hline & Total Width Required for PCL B+ & 1.50 & 2.50 & 2.77 & 3.97 \\
\hline & Clear Width Required For PCL B + & 1.50 & 2.50 & 2.77 & 3.97 \\
\hline Imp & Pedestrian Comfort at Peak Hour Flow & The footway on this site should be comfortable for its intended use at most imes. However, you may need to reassess the site in future. & The footway on this site should be comfortable for its intended use at most times. However, you may need to reassess the site in future. & The footway on this site should be comfortable for its intended use at most times. However, you may need to reassess
the site in future. & The footway on this site should be comfortable for its intended use at most
times. However, you may need to reassess the site in future. \\
\hline Imp & Pedestrian Comfort at Average of Maximum Activity & Even when under additional stress, the footway on this site should be comfortable. & This level of comfort is appropriate for periods of additional stress for all Area Types & This level of comfort is appropriate for periods of additional stress in Office and Retail and Transport Interchange sites. & This level of comfort is appropriate for periods of additional stress in Office and Retail and Transport Interchange sites. \\
\hline Impact & Notes & & & & \\
\hline Impact & Mitigation & & & & \\
\hline
\end{tabular}


Impact Pedestrian Comfort at Peak Hour Flow


\section*{MAYOR OF LONDON}
\begin{tabular}{|c|c|c|c|c|c|}
\hline Sign off & Assessed By Reviewed By & & \[
\begin{aligned}
& \hline \text { Date } \\
& \hline \text { Date }
\end{aligned}
\] & & \\
\hline \multirow[t]{8}{*}{Summary Info} & Location Name & Surveyed PM Peak Hour & Surveyed PM Peak 15 Mins & Proposed PM Peak Hour & Proposed PM Peak 15 Mins \\
\hline & Location Type & Full Footway Width & Full Footway Width & Full Footway Width & Full Footway Width \\
\hline & Area Type & High Street & High Street & High Street & High Street \\
\hline & Average Flow (PPH) & 228 & 446 & 514 & 732 \\
\hline & Peak Hour Flow (PPH) & 446 & 524 & 734 & 812 \\
\hline & Total Footway Width & 1.8 m & 1.8m & 1.8m & 1.8m \\
\hline & Clear Footway Width & 1.8 & 1.8m & 1.8m & 1.8m \\
\hline & Total Street Furniture Impact & Om & om & 0 m & om \\
\hline \multirow[t]{3}{*}{Pedestrian Comfort
(At peak hour flow (At peak hour flow levels)} & Pedestrian Comfort Level (PCL) & A: 4 ppmm & A: 5 ppmm & A \(: 7\) ppmm & A \(: 8\) ppmm \\
\hline & Total Width Required for PCL \({ }^{\text {B }}\) & 1.50 & 1.50 & 1.50 & 1.50 \\
\hline & Clear Width Required For PCL B+ & 1.50 & 1.50 & 1.50 & 1.50 \\
\hline \multirow[t]{3}{*}{Pedestrian Comfort (Average of Maximum Activity)} & Pedestrian Comfort Level (PCL) & A: : 6 ppmm & B : 12 ppmm & B: 14 ppmm & C+ \({ }^{\text {2 }} 20 \mathrm{ppmm}\) \\
\hline & Total Width Required for PCL B+ & 1.50 & 1.86 & 2.15 & 3.06 \\
\hline & Clear Width Required For PCL B + & 1.50 & 1.86 & 2.15 & 3.06 \\
\hline Imp & Pedestrian Comfort at Peak Hour Flow & The footway on this site should be comfortable for its intended use at most mes. However, you may need to reassess the site in future. & The footway on this site should be comfortable for its intended use at most times. However, you may need to reassess the site in future. & The footway on this site should be comfortable for its intended use at most times. However, you may need to reassess
the site in future. & The footway on this site should be comfortable for its intended use at most
times. However, you may need to reassess the site in future. \\
\hline Imp & Pedestrian Comfort at Average of Maximum Activity & Even when under additional stress, the footway on this site should be comfortable. & This level of comfort is appropriate for periods of additional stress for all Area Types & This level of comfort is appropriate for periods of additional stress for all Area Types & This level of comfort is appropriate for periods of additional stress in Office and Retail and Transport Interchange sites. \\
\hline Impact & Notes & & & & \\
\hline Impact & Mitigation & & & & \\
\hline
\end{tabular}


Impact Pedestrian Comfort at Peak Hour Flow


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\section*{Appendix L - Architectural Layouts}





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\section*{Appendix M - Vehicle Swept Path Analysis}








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Appendix N - On-Street Car Parking Plan


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Appendix O-TRICS Assessment
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Reference} & \multirow[t]{2}{*}{Description} & \multirow[t]{2}{*}{Town/City} & \multirow[t]{2}{*}{Area} & \multirow[t]{2}{*}{Location} & \multirow[t]{2}{*}{Survey Date} & \multirow[t]{2}{*}{Dwellings} & \multirow[t]{2}{*}{PTAL Rating} & \multirow[t]{2}{*}{Car Parking Provision} & \multirow[t]{2}{*}{\[
\begin{gathered}
\text { Car Parking } \\
\text { Ratio }
\end{gathered}
\]} & \multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Suruvered } \\
& \text { Vehicle rip. } \\
& \text { AM Peak }
\end{aligned}
\]} & \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{Surveed d
venicl Trips
o7:00:19:00} & \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{} & \multirow[t]{2}{*}{} & \multicolumn{2}{|l|}{Person trips per unit
- AM Peak} & \multicolumn{2}{|l|}{Person trips per unit - PM Peak} & \multicolumn{2}{|r|}{Person trips
\(-07: 00-19: 00\)} \\
\hline & & & & & & & & & & & & & & & & Arivals & Departures & Arivals & Departures & Arivals & Departures \\
\hline BE-03.-01 & BLOCKS OF flats & BExLEYHEATH & BEXLEY & Edge of Town Centre & 19/09/2018 & 79 & 3 & 84 & 1.06 & 11 & 38 & & & & & 12 & 46 & 37 & 29 & & \\
\hline BE-03-C.02 & BLOCKS OF Flats & BELVEDERE & BEXLEY & Edge of Town & 19/09/2018 & 402 & 2 & 550 & 1.37 & 68 & 77 & & . & . & & 26 & 205 & 131 & 80 & & \\
\hline BT-03-C.01 & BLOCKS OF FLATS & PARK ROYAL & BRENT & Suburban Area (PPS6 Out of Centre) & 28/09/2016 & 170 & 3 & 212 & 1.25 & 12 & 21 & 210 & - & - & 0.991 & 11 & 77 & 29 & 28 & 310 & 399 \\
\hline BT-03-C.02 & BLOCKS OF FLATS & wembley & Brent & Suburban Area (PPS6 Out of Centre) & 30/11/2016 & 472 & 5 & 151 & 0.32 & 14 & 20 & 118 & - & - & 0.781 & 24 & 154 & 116 & 70 & \({ }^{756}\) & 948 \\
\hline EN-03-C.01 & BLOCK OF FLATS & ENFIELO & ENfilio & Suburban Area (PPS66 Out of Centre) & 16/11/2015 & 16 & 2 & 16 & 1.00 & 4 & 5 & 26 & . & . & 1.625 & & & & & & \\
\hline EN-03-C.02 & BLOCKS OF FLATS & ENFIEL & ENFELID & Edge of Town & 10/11/2017 & 76 & 1 a & 175 & 2.30 & 102 & 52 & 670 & . & . & 3.829 & 63 & 237 & 144 & 63 & 1035 & 1269 \\
\hline EN-03C.C.03* & BLOCKS OF Flats & palmers gren & ENfild & Suburban Area (PPS6 Out of Centre) & 08/11/2017 & 18 & 2 & 18 & 1.00 & 12 & 14 & 85 & . & . & 4.722 & 14 & 33 & 25 & 16 & 156 & 162 \\
\hline H6.03.C.02 & Biock of flats & Wood Green & Haringey & Suburban Area (PPS6 Out of Centre) & 01/10/2014 & 30 & 4 & 25 & 0.83 & 1 & 5 & 38 & . & - & 1.520 & 3 & 14 & 14 & 13 & 82 & 91 \\
\hline HK-03-C.03 & BLOCK OF FLATS & FINSBURY PARK & HACKNEY & Suburban Area (PPS66 Out of Centre) & 24/09/2014 & 10 & \({ }^{6}\) & 12 & 1.20 & 2 & 0 & 24 & - & . & 2.000 & 0 & 14 & 3 & 1 & 42 & 42 \\
\hline HM-03-C.01 & BLOCK OF FLATS & FULHAM & HAMMERSMITH AND FULHAM & Town Centre & 16/07/2014 & 42 & 5 & 38 & 0.90 & 1 & , & 20 & - & - & 0.526 & 4 & 11 & 7 & 6 & 52 & 83 \\
\hline H0-03-C.02 & BLOCK OF Flats & Brentoord & Hounslow & Town Centre & 03/09/2014 & 86 & 3 & 64 & 0.74 & 7 & 6 & 83 & - & - & 1.297 & 7 & 31 & 27 & 15 & 173 & 184 \\
\hline но-03.-.03 & BLOCKS OF FLATS & BRENTFORD & Hounslow & Edge of Town Centre & 18/11/2016 & 150 & 2 & 106 & 0.71 & 26 & 44 & 325 & - & - & 3.066 & 29 & 84 & 62 & 34 & 405 & 474 \\
\hline но-03-C.04 & BLOCKS OF FLATS & ISLEWORTH & Hounslow & Neighbourhod Centre (PP56 Local Centre) & 03/07/2018 & 203 & 3 & 142 & 0.70 & 26 & 39 & 338 & - & - & 2.380 & 11 & 112 & 81 & 35 & 439 & 513 \\
\hline HV-03-C.01 & BLOCKS OF FLATS & ROMFORD & HAvERING & Suburban Area (PPS6 Out of Centre) & 25/06/2014 & 293 & 2 & 246 & 0.84 & 33 & 75 & 517 & - & . & 2.102 & 38 & 131 & 138 & 77 & 708 & 745 \\
\hline HV-03-C.02 & BLOCKS OF FLATS & ROMFORD & HAvERING & Suburban Area (PPS6 Out of Centre) & 22/11/2016 & 493 & 2 & 246 & 0.50 & 63 & 73 & 666 & - & . & 2.707 & 25 & 148 & 114 & 36 & 668 & 657 \\
\hline 5-03-C.03 & BLOCK Of flats & ISUNGTon & ISLINGTON & Suburban Area (PPS66 Out of Centre) & 21/11/2013 & 9 & 6 & 8 & 0.89 & 1 & 0 & 7 & - & - & 0.875 & 1 & 5 & 0 & 0 & 16 & 19 \\
\hline 5-03-C.04 & BLOCK Of flats & ISUNGTon & ISLINGTON & Edge of Town Centre & 14/07/2016 & 157 & 6a & 42 & 0.27 & 3 & 4 & 62 & - & - & 1.476 & 4 & 23 & 21 & 7 & 142 & 185 \\
\hline 5-03-C.05 & BLOCK OF FLATS & FINSSURY & ISLINGTon & Edge of Town Centre & 29/06/2016 & 15 & 6 & 0 & 0.00 & 0 & 0 & 10 & - & - & - & 0 & 9 & 2 & 0 & 22 & 30 \\
\hline 5-03.-.06 & BLOCK Of flats & Holloway & ISUNGTON & Edge of Town Centre & 27/06/2016 & 14 & 6 & 0 & 0.00 & 1 & 0 & 15 & - & - & - & 1 & 8 & 6 & 1 & 24 & 37 \\
\hline \({ }^{\text {x1-03-C.03 }}\) & Block of flats & surbiton & Kingston & Edee of Town Centre & 11/07/2016 & 20 & 2 & 25 & 1.25 & 4 & 4 & 42 & . & . & 1.680 & 2 & 10 & 7 & 1 & 45 & 45 \\
\hline KN-03-C.03 & Block of flats & kensington & KENSINGTON AND Chelsea & Edge of Town Centre & 11/05/2012 & 72 & 5 & 60 & 0.83 & 22 & 9 & 82 & - & - & 1.367 & 3 & 19 & 8 & & \({ }^{124}\) & \({ }^{131}\) \\
\hline NH-03-C.01 & Block of flats & Stratford & NEWHAM & Neighbourhood Centre (PPS66 Local Centre) & 14/11/2013 & 12 & 3 & 16 & 1.33 & 2 & 1 & 20 & - & - & 1.250 & 0 & 2 & 1 & 0 & 44 & 46 \\
\hline RD-03-C.03 & BLOCKS OF FLATS & kew & RICHMOND & Suburban Area (PPS6 Out of Centre) & 26/04/2018 & 120 & 1 b & 171 & 1.43 & 18 & 11 & 108 & - & . & 0.632 & 15 & 46 & 32 & 13 & 239 & 306 \\
\hline Sk-03-C.01 & BLOCK Of flats & Southwark & SOUTHWARK & Edge of Town Centre & 19/09/2014 & 53 & \(6{ }^{6}\) & 59 & 1.11 & 2 & 6 & 65 & - & - & 1.102 & 8 & 34 & 7 & 15 & 160 & 168 \\
\hline SK-03-C.02 & BLOCK OF Flats & BERMONOSEY & Southwark & Edge of Town Centre & 23/04/2015 & 29 & \(6{ }^{6}\) & 2 & 0.07 & 0 & 0 & 10 & . & . & 5.000 & 3 & 12 & 9 & 4 & 36 & 46 \\
\hline (1-03-C.01 & BLOCKS OF FLATS & CLAPHAM Junction & WAnosworth & Edge of Town Centre & 09/05/2012 & 30 & \(6{ }^{6}\) & 36 & \({ }^{1.20}\) & 17 & 7 & 73 & - & - & 2.028 & 6 & 29 & 12 & 3 & 73 & 79 \\
\hline BT-03-D-01 & BLOCKS OF FLATS & Douls hill & Brent & Suburban Area (PPS6 Out of Centre) & 26/06/2014 & 160 & 2 & 162 & 1.01 & 54 & 29 & 395 & - & - & 2.438 & 18 & 199 & 67 & 35 & 537 & 634 \\
\hline EN-03-D.01 & BLOCKS OF FLATS & EDMONTON & ENFFILD & Suburban Area (PPS6 Out of Centre) & 16/11/2015 & 66 & 2 & 21 & 0.32 & 7 & 4 & 41 & - & - & 1.952 & & & & & & \\
\hline HA-03-D-01 & BLOCKS OF FLATS & kINGSBURY & HARROW & Neighbourhood Centre (PPS6 Local Centre) & 17/07/2014 & 88 & 3 & 110 & 1.25 & 23 & 10 & 166 & - & - & 1.509 & 18 & 97 & 41 & 29 & 263 & 330 \\
\hline HG-03-D.03 & BLOCKS OF flats & wood green & Haringey & suburban Area (PPs6 out of Centre) & 26/09/2014 & 90 & 4 & 73 & 0.81 & 12 & 5 & 95 & . & . & 1.301 & 4 & 58 & 25 & 12 & 270 & 288 \\
\hline 15-03-D.02 & BLocks of flats & Islingon & ISLINGTon & Neighbourtood Centre (PPS66 Local Centre) & 28/11/2013 & 250 & 5 & 72 & 0.29 & 28 & 20 & 35 & . & . & 0.486 & 42 & 135 & 107 & 70 & 676 & 692 \\
\hline 5-03-0.03 & Block of flats & ISUINGTON & ISLINGTON & Suburban Area (PPS66 Out of Centre) & 21/11/2013 & 36 & 61 & - & 0.22 & 7 & 6 & 55 & . & . & 6.875 & & 31 & 10 & 14 & 110 & 107 \\
\hline 33--04 & BLOCKS OF flat & माGНвURY & ISLINGTON & Edge of Town Centre & 27/06/2016 & 247 & 5 & , & 0.00 & 20 & 23 & 201 & - & - & & 23 & 119 & 67 & 40 & 666 & 709 \\
\hline \multicolumn{2}{|l|}{Totals (included Sites only)} & & & & & 2221 & - & 2201 & 0.99 & 425 & 431 & 3395 & 0.330 & 0.330 & 2.161 & 254 & 1336 & 839 & 430 & 4604 & 5327 \\
\hline
\end{tabular}

Key
```

TRICS Categor: Residem, flusin
Average trip rate ealicuated, Aliforduable/ Local A
Average trip rate calcuated (included sites only)
those with 50, or fewer, dwelling;

```

\begin{tabular}{|c|c|c|c|c|}
\hline Development Stite & No. Parking & Two-way
Vehicle Trips & Two-way
Vehicle Trips & Two-way
Vehicle Trips \\
\hline Proposed Development-Homease Site & 120 & 40 & 40 & 259 \\
\hline Proposed Development-Tesco site & 400 & 132 & 132 & 864 \\
\hline
\end{tabular}
roposed Development- Tesco Site

QS701EW - Method of travel to work
ONS Crown Copyright Reserved [from Nomis on 29 April 2019]

\begin{tabular}{ll} 
Population & All usual residents aged 16 to 74 \\
Units & Persons \\
Date & 2011
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline Method of Travel to Work & E01002686: Hounslow 006E & \begin{tabular}{l}
E01002678: \\
Hounslow 009B
\end{tabular} & \begin{tabular}{l}
E01002679: \\
Hounslow 009C
\end{tabular} & \[
\begin{aligned}
& \text { E01002682: } \\
& \text { Hounslow 014D }
\end{aligned}
\] & Total & \begin{tabular}{l}
2011 Census \\
Modal Split
\end{tabular} \\
\hline Underground, metro, light rail, tram & 78 & 166 & 115 & 105 & 464 & 21.0\% \\
\hline Train & 60 & 122 & 127 & 194 & 503 & 22.8\% \\
\hline Bus, minibus or coach & 124 & 78 & 100 & 236 & 538 & 24.3\% \\
\hline Taxi & 7 & 6 & 0 & 5 & 18 & 0.8\% \\
\hline Motorcycle, scooter or moped & 15 & 9 & 7 & 20 & 51 & 2.3\% \\
\hline Driving a car or van & - & - & - & - & - & - \\
\hline Passenger in a car or van & 28 & 23 & 27 & 20 & 98 & 4.4\% \\
\hline Bicycle & 24 & 22 & 38 & 64 & 148 & 6.7\% \\
\hline On foot & 90 & 72 & 80 & 117 & 359 & 16.2\% \\
\hline Other method of travel to work & 4 & 10 & 6 & 11 & 31 & 1.4\% \\
\hline Total & 430 & 508 & 500 & 772 & 2,210 & 100.0\% \\
\hline
\end{tabular}
\begin{tabular}{|l|c|}
\hline Proposed residential unit numbers, Homebase site & 473 \\
\hline Proposed residential unit numbers, Tesco site & 1677 \\
\hline
\end{tabular}
\begin{tabular}{|l|l|}
\hline Proposed residential car parking provision, Homebase site (spaces) & 105 \\
\hline Proposed residential car parking provision, Tesco site (spaces) & 400 \\
\hline
\end{tabular}

\section*{Potential Residential Trip Generation - Homebase Site}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Mode of Travel} & \multicolumn{2}{|l|}{Weekday 08:00-09:00} & \multicolumn{2}{|l|}{Weekday 17:00-18:00} & \multicolumn{2}{|l|}{Weekday 07:00-19:00} & \multicolumn{2}{|r|}{Saturday Peak*} \\
\hline & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures \\
\hline Underground, metro, light rail, tram & 10 & 54 & 33 & 17 & 184 & 213 & 21 & 35 \\
\hline Train & 11 & 58 & 35 & 18 & 199 & 231 & 23 & 38 \\
\hline Bus, minibus or coach & 12 & 62 & 38 & 19 & 213 & 247 & 25 & 41 \\
\hline Taxi & 0 & 2 & 1 & 1 & 7 & 8 & 1 & 1 \\
\hline Motorcycle, scooter or moped & 1 & 6 & 4 & 2 & 20 & 23 & 2 & 4 \\
\hline Driving a car or van & 6 & 29 & 23 & 12 & 106 & 122 & 14 & 20 \\
\hline Passenger in a car or van & 2 & 11 & 7 & 4 & 39 & 45 & 5 & 7 \\
\hline Bicycle & 3 & 17 & 10 & 5 & 59 & 68 & 7 & 11 \\
\hline On foot & 8 & 41 & 25 & 13 & 142 & 165 & 17 & 27 \\
\hline Other method of travel to work & 1 & 4 & 2 & 1 & 12 & 14 & 1 & 2 \\
\hline Total & 54 & 285 & 179 & 92 & 981 & 1134 & 116 & 188 \\
\hline
\end{tabular}

Total Pedestrian trips - inc. those associated with multi-modal trips
\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{Mode of Travel} & \multicolumn{2}{|l|}{Weekday 08:00-09:00} & \multicolumn{2}{|l|}{Weekday 17:00-18:00} & \multicolumn{2}{|l|}{Weekday 07:00-19:00} & \multicolumn{2}{|c|}{Saturday Peak*} \\
\hline & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures \\
\hline Pedestrian Trips & 37 & 192 & 117 & 60 & 658 & 762 & 77 & 126 \\
\hline
\end{tabular}

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\section*{Appendix P - Bus Service Trip Distribution}

\section*{Bus Trip Distribution - Bus as main mode of travel}

\section*{Homebase, Syon Lane Development Site}

\section*{WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)}

ONS Crown Copyright Reserved [from Nomis on 4 June 2020]
\begin{tabular}{ll} 
Population & All usual residents aged 16 and over in employment the week before the census \\
Units & Persons \\
Date & 2011 \\
Usual residence & E02000534 : Hounslow 009 (2011 super output area - middle layer)
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|}
\hline Place of work & Bus, minibus or coach (2011 Census Raw Data) & \begin{tabular}{l}
\% of all journeys \\
Bus as main mode of travel
\end{tabular} & Bus Service Used & Direction of Travel & \% Split of bus journeys \\
\hline Ealing & 37 & 10.3\% & E1 & East & 10.3\% \\
\hline Hillingdon & 21 & 5.8\% & H28 & North & \multirow{6}{*}{15.6\%} \\
\hline E02000543 : Hounslow 018 & 15 & 4.2\% & H28 & North & \\
\hline E02000540 : Hounslow 015 & 12 & 3.3\% & H28 & North & \\
\hline E02000542 : Hounslow 017 & 6 & 1.7\% & H28 & North & \\
\hline E02000545 : Hounslow 020 & 1 & 0.3\% & H28 & North & \\
\hline E02000535 : Hounslow 010 & 1 & 0.3\% & H28 & North & \\
\hline Richmond upon Thames & 53 & 14.7\% & H28 & South & \multirow{5}{*}{18.6\%} \\
\hline E02000539 : Hounslow 014 & 7 & 1.9\% & H28 & South & \\
\hline E02000552 : Hounslow 027 & 5 & 1.4\% & H28 & South & \\
\hline E02000534 : Hounslow 009 & 1 & 0.3\% & H28 & South & \\
\hline E02000551 : Hounslow 026 & 1 & 0.3\% & H28 & South & \\
\hline E02000531 : Hounslow 006 & 6 & 1.7\% & H91 & East & \multirow{21}{*}{41.7\%} \\
\hline E02000528 : Hounslow 003 & 5 & 1.4\% & H91 & East & \\
\hline Brent & 4 & 1.1\% & H91 & East & \\
\hline Hammersmith and Fulham & 36 & 10.0\% & H91 & East & \\
\hline E02006792 : Hounslow 029 & 25 & 6.9\% & H91 & East & \\
\hline Wandsworth & 18 & 5.0\% & H91 & East & \\
\hline Westminster, City of London & 16 & 4.4\% & H91 & East & \\
\hline Kingston upon Thames & 10 & 2.8\% & H91 & East & \\
\hline E02000526 : Hounslow 001 & 8 & 2.2\% & H91 & East & \\
\hline Kensington and Chelsea & 6 & 1.7\% & H91 & East & \\
\hline E02000532 : Hounslow 007 & 3 & 0.8\% & H91 & East & \\
\hline Tower Hamlets & 2 & 0.6\% & H91 & East & \\
\hline Merton & 2 & 0.6\% & H91 & East & \\
\hline E02000533 : Hounslow 008 & 2 & 0.6\% & H91 & East & \\
\hline Camden & 1 & 0.3\% & H91 & East & \\
\hline Southwark & 1 & 0.3\% & H91 & East & \\
\hline Newham & 1 & 0.3\% & H91 & East & \\
\hline Barnet & 1 & 0.3\% & H91 & East & \\
\hline E02000530: Hounslow 005 & 1 & 0.3\% & H91 & East & \\
\hline Greenwich & 1 & 0.3\% & H91 & East & \\
\hline Redbridge & 1 & 0.3\% & H91 & East & \\
\hline E02000536 : Hounslow 011 & 3 & 0.8\% & H91 & West & \multirow{15}{*}{13.9\%} \\
\hline E02000537 : Hounslow 012 & 2 & 0.6\% & H91 & West & \\
\hline Slough & 9 & 2.5\% & H91 & West & \\
\hline Spelthorne & 8 & 2.2\% & H91 & West & \\
\hline E02000547 : Hounslow 022 & 6 & 1.7\% & H91 & West & \\
\hline E02000541 : Hounslow 016 & 5 & 1.4\% & H91 & West & \\
\hline E02000538 : Hounslow 013 & 4 & 1.1\% & H91 & West & \\
\hline Runnymede & 3 & 0.8\% & H91 & West & \\
\hline E02000529 : Hounslow 004 & 3 & 0.8\% & H91 & West & \\
\hline E02000548 : Hounslow 023 & 2 & 0.6\% & H91 & West & \\
\hline E02000549 : Hounslow 024 & 1 & 0.3\% & H91 & West & \\
\hline South Bucks & 1 & 0.3\% & H91 & West & \\
\hline Isle of Wight & 1 & 0.3\% & H91 & West & \\
\hline Elmbridge & 1 & 0.3\% & H91 & West & \\
\hline Chichester & 1 & 0.3\% & H91 & West & \\
\hline Total & 360 & 100.0\% & - & - & 100.0\% \\
\hline
\end{tabular}

\section*{Bus Trip Distribution - Train as main mode of travel}

\section*{Homebase, Syon Lane Development Site}

WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)
ONS Crown Copyright Reserved [from Nomis on 4 June 20201
\begin{tabular}{ll} 
Population & All usual residents aged 16 and over in employment the week before the census \\
Units & Persons \\
Date & 2011 \\
Usual residence & E02000534 : Hounslow 009 (2011 super output area - middle layer)
\end{tabular}


\section*{Bus Trip Distribution - Underground as main mode of travel}

\section*{Homebase, Syon Lane Development Site}

WU03EW - Location of usual residence and place of work by method of travel to work (MSOA level)
ONS Crown Copyright Reserved [from Nomis on 4 June 2020]
\begin{tabular}{ll} 
Population & All usual residents aged 16 and over in employment the week before the census \\
Units & Persons \\
Date & 2011 \\
Usual residence & E02000534 : Hounslow 009 (2011 super output area - middle layer)
\end{tabular}
\(\left.\left.\begin{array}{|lcccc|}\hline & \begin{array}{c}\text { Underground/ } \\ \text { Light Rail (2011 } \\ \text { Census Raw } \\ \text { Data) }\end{array} & \begin{array}{c}\text { of all journeys } \\ \text { U'gd as main } \\ \text { mode of travel }\end{array} & \text { Bus Service Used } & \text { Direction of } \\ \text { Place of work } & 5 & & \text { Travel }\end{array}\right\} \begin{array}{c}\text { \% Split of bus } \\ \text { journeys }\end{array}\right]\)

Royal
HaskoningDHV

\section*{Appendix Q - Traffic Growth}

TfL Strategic Model - Traffic Growth Estimate Summary

Gillette Corner - AM Peak
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction Turning Counts} & \multicolumn{5}{|c|}{2012 Base (Actual) Flows (veh/h)} & \multicolumn{5}{|l|}{2031 Syon LanelA4 Great West Road (Source: LoHAM 3.10)} & \multicolumn{5}{|c|}{2012-2031 Percentage Change} \\
\hline From & To & Car & Taxi & LgV & HGV & Total & Car & Taxi & LgV & HgV & Total & Car & Taxi & Lgv & HGV & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 85 & 0 & 3 & 4 & 92 & 96 & 0 & 7 & 3 & 106 & 12\% & -27\% & 183\% & -26\% & 15\% \\
\hline & A4 (East) & 1,070 & 33 & 124 & 59 & 1,286 & 1,000 & 6 & 207 & 58 & 1,271 & -6\% & -81\% & 67\% & -2\% & -1\% \\
\hline & Syon Lane (South) & 46 & 1 & 8 & 1 & 56 & 92 & 1 & 19 & 7 & 119 & 100\% & -1\% & 139\% & 486\% & 112\% \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 428 & 2 & 85 & 3 & 518 & 493 & 2 & 104 & 10 & 609 & 15\% & 3\% & 22\% & 190\% & 17\% \\
\hline & Syon Lane (South) & 167 & 1 & 23 & 2 & 193 & 229 & 1 & 46 & 4 & 280 & 37\% & -9\% & 101\% & 75\% & 45\% \\
\hline & A4 (West) & 28 & 0 & 2 & 1 & 31 & 46 & 0 & 6 & 1 & 53 & 65\% & 28\% & 233\% & -25\% & 70\% \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 227 & 0 & 28 & 9 & 264 & 129 & 0 & 14 & 7 & 150 & -43\% & -42\% & -50\% & -24\% & -43\% \\
\hline & A4 (West) & 1,325 & 6 & 97 & 33 & 1,461 & 1,465 & 7 & 187 & 47 & 1,705 & 10\% & 2\% & 93\% & 45\% & 17\% \\
\hline & Syon Lane (North) & 164 & 3 & 21 & 3 & 191 & 221 & 3 & 43 & 6 & 273 & 35\% & 5\% & 107\% & 113\% & 43\% \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 48 & 1 & 4 & 3 & 54 & 44 & 1 & 4 & 1 & 49 & -8\% & 0\% & 16\% & -79\% & -10\% \\
\hline & Syon Lane (North) & 198 & 0 & 11 & 2 & 211 & 249 & 0 & 54 & 8 & 312 & 26\% & -16\% & 388\% & 385\% & 48\% \\
\hline & A4 (East) & 375 & 5 & 20 & 22 & 422 & 255 & 3 & 31 & 9 & 298 & -32\% & -44\% & 51\% & -57\% & -29\% \\
\hline \multicolumn{2}{|l|}{Totals} & 4,162 & 52 & 424 & 142 & 4,780 & 4,319 & 24 & 721 & 162 & 5,226 & 4\% & -55\% & 70\% & 14\% & 9\% \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction - Link Counts} & \multicolumn{5}{|c|}{2012 Base (Actual) Flows (veh/h)} & \multicolumn{5}{|l|}{2031 Syon LanelA4 Great West Road (Source: LoHAM 3.10)} & \multicolumn{5}{|c|}{2012-2031 Percentage Change} \\
\hline From & To & Car & Taxi & Lgv & HGV & Total & Car & Taxi & LGV & HGV & Total & Car & Taxi & LgV & HGV & Total \\
\hline \multirow[t]{2}{*}{A4 (West) east of Wood Lane} & Eastbound & 1,166 & 34 & 132 & 63 & 1,395 & 1,134 & 7 & 225 & 67 & 1,432 & -3\% & -78\% & 70\% & 5\% & 3\% \\
\hline & Westbound & 1,333 & 6 & 95 & 34 & 1,469 & 1,444 & 6 & 186 & 46 & 1,681 & 8\% & 1\% & 95\% & 34\% & 14\% \\
\hline \multirow[t]{2}{*}{Syon Lane (at MacFarlane Lane)} & Southbound & 672 & 3 & 107 & 4 & 786 & 847 & 3 & 153 & 14 & 1,017 & 26\% & 9\% & 43\% & 250\% & 29\% \\
\hline & Northbound & 209 & 1 & 25 & 1 & 236 & 348 & 1 & 84 & 11 & 445 & 67\% & 41\% & 231\% & 846\% & 89\% \\
\hline \multirow[t]{2}{*}{A4 (East) west of River Brent} & Westbound & 1,716 & 10 & 145 & 45 & 1,916 & 1,814 & 10 & 244 & 61 & 2,128 & 6\% & 2\% & 67\% & 35\% & 11\% \\
\hline & Eastbound & 1,529 & 36 & 216 & 71 & 1,852 & 1,396 & 7 & 309 & 63 & 1,776 & -9\% & -80\% & 43\% & -11\% & -4\% \\
\hline \multirow[t]{2}{*}{Spur Road (north of London Road)} & Northbound & 473 & 4 & 29 & 18 & 525 & 402 & 2 & 70 & 13 & 487 & -15\% & -55\% & 141\% & -28\% & -7\% \\
\hline & Southbound & 335 & 0 & 45 & 11 & 390 & 346 & 0 & 63 & 12 & 422 & 3\% & 153\% & 42\% & 18\% & 8\% \\
\hline \multicolumn{2}{|l|}{Totals} & 7,434 & 93 & 794 & 247 & 8,568 & 7,731 & 36 & 1,334 & 287 & 9,388 & 4\% & -61\% & 68\% & 16\% & 10\% \\
\hline
\end{tabular}

Key

Traffic increase 0\% to \(10 \%\)
Traffic increase \(10 \%\) to \(25 \%\)
Traffic increase > 25\%
Trfic increase > \(100 \%\)

\section*{TfL Strategic Model - Traffic Growth Estimate Summary}

Gillette Corner - PM Peak
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{2012 Base (Actual) Flows (veh/h)} & \multicolumn{5}{|l|}{2031 Syon LanelA4 Great West Road (Source: LoHAM 3.10)} & \multicolumn{5}{|c|}{2012-2031 Percentage Change} \\
\hline From & To & Car & Taxi & LgV & HgV & Total & Car & Taxi & LgV & HgV & Total & Car & Taxi & LGV & HGV & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 66 & 0 & 1 & 0 & 67 & 85 & 0 & 5 & 0 & 90 & 30\% & 18\% & 601\% & 27\% & 35\% \\
\hline & A4 (East) & 959 & 37 & 66 & 18 & 1,080 & 921 & 30 & 112 & 20 & 1,083 & -4\% & -18\% & 70\% & 12\% & 0\% \\
\hline & Syon Lane (South) & 77 & 3 & 8 & 1 & 89 & 119 & 3 & 20 & 1 & 143 & 55\% & -22\% & 144\% & 78\% & 60\% \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 421 & 6 & 52 & 1 & 480 & 462 & 6 & 79 & 3 & 550 & 10\% & 1\% & 53\% & 161\% & 15\% \\
\hline & Syon Lane (South) & 249 & 0 & 12 & 1 & 262 & 222 & 0 & 26 & 1 & 249 & -11\% & 0\% & 108\% & 163\% & -5\% \\
\hline & A4 (West) & 54 & 0 & 2 & 0 & 56 & 42 & 0 & 5 & 0 & 48 & -21\% & 420\% & 134\% & 84\% & -14\% \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 220 & 1 & 21 & 5 & 247 & 145 & 1 & 23 & 5 & 174 & -34\% & -8\% & 11\% & 3\% & -29\% \\
\hline & A4 (West) & 1,621 & 10 & 163 & 24 & 1,818 & 1,481 & 10 & 272 & 33 & 1,797 & -9\% & 8\% & 67\% & 40\% & -1\% \\
\hline & Syon Lane (North) & 172 & 1 & 47 & 3 & 222 & 140 & 1 & 40 & 3 & 183 & -19\% & 4\% & -16\% & 23\% & -17\% \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 98 & 0 & 10 & 1 & 110 & 123 & 0 & 18 & 1 & 142 & 25\% & 17\% & 77\% & 4\% & 29\% \\
\hline & Syon Lane (North) & 240 & 1 & 24 & 1 & 266 & 268 & 1 & 64 & 3 & 337 & 12\% & -4\% & 168\% & 305\% & 27\% \\
\hline & A4 (East) & 228 & 4 & 17 & 10 & 258 & 197 & 3 & 30 & 11 & 241 & -13\% & -29\% & 79\% & 2\% & -7\% \\
\hline \multicolumn{2}{|l|}{Totals} & 4,404 & 63 & 424 & 64 & 4,954 & 4,204 & 55 & 695 & 83 & 5,037 & -5\% & -12\% & 64\% & 29\% & 2\% \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{2012 Base (Actual) Flows (veh/h)} & \multicolumn{5}{|l|}{2031 Syon LanelA4 Great West Road (Source: LoHAM 3.10)} & \multicolumn{5}{|c|}{2012-2031 Percentage Change} \\
\hline From & To & Car & Taxi & Lgv & HGV & Total & Car & Taxi & LGV & HgV & Total & Car & Taxi & Lgv & Hgv & Total \\
\hline \multirow[t]{2}{*}{A4 (West) east of Wood Lane} & Eastbound & 1,017 & 39 & 72 & 19 & 1,146 & 1,004 & 32 & 130 & 22 & 1,187 & -1\% & -19\% & 81\% & 14\% & 4\% \\
\hline & Westbound & 1,687 & 10 & 169 & 23 & 1,889 & 1,584 & 11 & 290 & 33 & 1,918 & -6\% & 12\% & 71\% & 43\% & 2\% \\
\hline \multirow[t]{2}{*}{Syon Lane (at MacFarlane Lane)} & Southbound & 388 & 4 & 56 & 1 & 448 & 447 & 4 & 85 & 3 & 539 & 15\% & 1\% & 51\% & 241\% & 20\% \\
\hline & Northbound & 817 & 3 & 78 & 2 & 899 & 912 & 3 & 115 & 5 & 1,035 & 12\% & -3\% & 48\% & 145\% & 15\% \\
\hline \multirow[t]{2}{*}{A4 (East) west of River Brent} & Westbound & 2,012 & 12 & 231 & 31 & 2,285 & 1,766 & 12 & 335 & 41 & 2,154 & -12\% & 6\% & 45\% & 33\% & -6\% \\
\hline & Eastbound & 1,801 & 51 & 143 & 27 & 2,021 & 1,807 & 44 & 250 & 33 & 2,135 & 0\% & -13\% & \(75 \%\) & 23\% & 6\% \\
\hline \multirow[t]{2}{*}{Spur Road (north of London Road)} & Northbound & 413 & 5 & 38 & 6 & 462 & 398 & 4 & 78 & 9 & 488 & -4\% & -22\% & 106\% & 40\% & 6\% \\
\hline & Southbound & 412 & 5 & 31 & 5 & 452 & 361 & 3 & 51 & 6 & 421 & -12\% & -26\% & 62\% & \(31 \%\) & -7\% \\
\hline \multicolumn{2}{|l|}{Totals} & 8,545 & 127 & 818 & 114 & 9,604 & 8,279 & 113 & 1,333 & 153 & 9,877 & -3\% & -11\% & 63\% & 34\% & 3\% \\
\hline
\end{tabular}

Key

\section*{Traffic reduction}

Traffic increase 0\% to 10\%
Traffic increase \(10 \%\) to \(25 \%\)
Traffic increase > 25\%
Trfic increase > 100
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{2012 Base (veh/h)} & \multicolumn{5}{|l|}{2031 Predicted (Source: LOHAM 3.10)} & \multicolumn{5}{|c|}{Predicted Flows, 2013} & \multicolumn{5}{|c|}{Predicted Flows, 2014} & \multicolumn{5}{|c|}{Predicted Flows, 2015} \\
\hline From & то & Car & Taxi & Lev & Hgv & Total & Car & Taxi & Lgv & нgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lgv & Hgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 85 & 0 & 3 & 4 & 92 & 96 & 0 & 7 & 3 & 106 & 86 & 0 & 3 & 4 & 93 & 86 & 0 & 3 & 4 & 93 & 87 & 0 & 3 & 4 & 94 \\
\hline & A4 (East) & 1,070 & 33 & 124 & 59 & 1,286 & 1,000 & 6 & 207 & 58 & 1,271 & 1066 & 30 & 127 & 59 & 1282 & 1062 & 28 & \({ }^{131}\) & 59 & 1280 & 1059 & 25 & 134 & 59 & 1277 \\
\hline & Syon Lane (South) & 46 & 1 & 8 & 1 & 56 & 92 & 1 & 19 & 7 & 119 & 48 & 1 & 8 & 1 & 58 & 50 & 1 & 9 & 2 & 61 & 52 & 1 & 9 & 2 & 63 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 428 & 2 & 85 & 3 & 518 & 493 & 2 & 104 & 10 & 609 & 431 & 2 & 86 & 4 & 522 & 434 & 2 & 87 & 4 & 527 & 438 & 2 & 88 & 4 & 531 \\
\hline & Syon Lane (South) & 167 & 1 & \({ }^{23}\) & 2 & 193 & 229 & 1 & 46 & 4 & 280 & 170 & 1 & 24 & 2 & 197 & 173 & 1 & 24 & 2 & 200 & 176 & 1 & 25 & 3 & 204 \\
\hline & A4 (West) & 28 & 0 & 2 & 1 & 31 & 46 & 0 & 6 & 1 & 53 & 29 & 0 & 2 & 1 & 32 & 29 & 0 & 2 & 1 & 33 & 30 & 0 & 2 & 1 & 34 \\
\hline \multirow{3}{*}{\({ }^{\text {A4 (East) }}\)} & Syon Lane (South) & 227 & 0 & 28 & 9 & 264 & 129 & 0 & 14 & 7 & 150 & 220 & 0 & 27 & 9 & 257 & 214 & 0 & 26 & 9 & 249 & 207 & 0 & 25 & 9 & 242 \\
\hline & A4 (West) & 1,325 & 6 & 97 & 33 & 1,461 & 1,465 & 7 & 187 & 47 & 1,705 & 1332 & 6 & 100 & 33 & 1472 & 1339 & 6 & 104 & 34 & 1484 & 1346 & 6 & 107 & 35 & 1495 \\
\hline & Syon Lane (North) & 164 & 3 & 21 & 3 & 191 & 221 & 3 & 43 & 6 & 273 & 167 & 3 & 21 & 3 & 194 & 169 & 3 & 22 & 3 & 198 & 172 & 3 & \({ }^{23}\) & 3 & 201 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 48 & 1 & 4 & 3 & 54 & 44 & 1 & 4 & 1 & 49 & 48 & 1 & 4 & 2 & 54 & 47 & 1 & 4 & 2 & 54 & 47 & 1 & 4 & 2 & 53 \\
\hline & Syon Lane (North) & 198 & 0 & 11 & 2 & 211 & 249 & 0 & 54 & 8 & 312 & 200 & 0 & 12 & 2 & 215 & 203 & 0 & 13 & 2 & 218 & 205 & 0 & 14 & 2 & 222 \\
\hline & A4 (East) & 375 & 5 & 20 & 22 & 422 & 255 & 3 & 31 & 9 & 298 & 367 & 5 & 21 & 21 & 414 & 360 & 5 & 21 & 20 & 406 & 353 & 4 & 22 & 19 & 398 \\
\hline \multicolumn{2}{|l|}{Total} & 4,162 & 52 & 424 & 142 & 4,780 & 4,319 & 24 & 721 & 162 & 5,226 & 4165 & 50 & 435 & 142 & 4791 & 4168 & 47 & 446 & 142 & 4802 & 4172 & 44 & 457 & 142 & 4815 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2016} & \multicolumn{5}{|c|}{Predicted Flows, 2017} & \multicolumn{5}{|c|}{Predicted Flows, 2018} & \multicolumn{5}{|c|}{Presicted Flows, 2019} & \multicolumn{5}{|c|}{Predicted Flows, 2020} \\
\hline From & To & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & Lev & Hgv & Total & Car & Taxi & Lev & Hgv & Total & car & Taxi & Lev & Hev & Total & Car & Taxi & LGv & Hgv & Total \\
\hline \multirow{3}{*}{\({ }^{\text {A }}\) (West)} & Syon Lane (North) & 88 & 0 & 3 & 4 & 95 & 88 & 0 & 3 & 4 & 95 & 89 & 0 & 4 & 4 & 96 & \({ }^{39}\) & 0 & 4 & \({ }^{3}\) & 97 & 90 & 0 & 4 & 3 & 97 \\
\hline & A4 (East) & 1055 & 23 & \({ }^{138}\) & 59 & 1275 & 1051 & 21 & 142 & 59 & 1273 & 1047 & 20 & 146 & 59 & 1271 & 1044 & 18 & 150 & 59 & 1270 & 1040 & 16 & 154 & 59 & 1269 \\
\hline & Syon Lane (South) & 53 & 1 & 9 & 2 & 66 & 55 & 1 & 10 & 2 & 68 & 58 & 1 & 10 & 2 & 71 & 60 & 1 & 11 & 2 & 74 & 62 & 1 & 11 & 3 & 77 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 441 & 2 & 88 & 4 & 536 & 444 & 2 & 89 & 4 & 540 & 448 & 2 & 90 & 5 & 545 & 451 & 2 & \({ }^{21}\) & 5 & 549 & 454 & 2 & 92 & 5 & 554 \\
\hline & Syon Lane (South) & 179 & 1 & 26 & 3 & 208 & 182 & 1 & 27 & 3 & 212 & 185 & 1 & 28 & 3 & 216 & 188 & 1 & 29 & 3 & 231 & 191 & 1 & 31 & 3 & 225 \\
\hline & A4 (West) & 31 & 0 & 2 & 1 & 35 & 32 & 0 & 2 & 1 & 36 & 33 & 0 & 3 & 1 & 37 & 34 & 0 & \({ }^{3}\) & 1 & \({ }^{38}\) & 34 & 0 & 3 & 1 & 39 \\
\hline \multirow{3}{*}{\({ }^{\text {A4 (East) }}\)} & Syon Lane (South) & 201 & 0 & 24 & 9 & 235 & 195 & 0 & \({ }^{23}\) & 9 & 228 & 190 & 0 & 23 & 9 & 221 & 184 & 0 & 22 & 8 & 215 & 179 & 0 & 21 & 8 & 208 \\
\hline & A4 (West) & 1354 & 6 & \({ }^{111}\) & 35 & 1507 & 1361 & 6 & 115 & 36 & 1518 & 1368 & 6 & 119 & 37 & 1530 & 1375 & 7 & \({ }^{123}\) & 38 & 1542 & 1382 & 7 & 128 & 38 & 1555 \\
\hline & Syon Lane (North) & 175 & 3 & 24 & 3 & 205 & 177 & 3 & 25 & 4 & 209 & 180 & 3 & 26 & 4 & 213 & 188 & 3 & 27 & 4 & 217 & 186 & 3 & 28 & 4 & 221 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 47 & 1 & 4 & 2 & 53 & 47 & 1 & 4 & 2 & 53 & 47 & 1 & 4 & 2 & 52 & 46 & 1 & 4 & 1 & 52 & 46 & 1 & 4 & 1 & 52 \\
\hline & Syon Lane (North) & 208 & 0 & 15 & 2 & 226 & 210 & 0 & 17 & 3 & 230 & 213 & 0 & 18 & 3 & 235 & 216 & 0 & \({ }^{20}\) & 3 & 239 & 218 & 0 & 22 & 3 & 244 \\
\hline & A4 (East) & 346 & 4 & 22 & 18 & 390 & 339 & 4 & 23 & 17 & 383 & 332 & 4 & 23 & 17 & 376 & 325 & 4 & 24 & 16 & 369 & 319 & 4 & 24 & 15 & 362 \\
\hline \multicolumn{2}{|l|}{Totals} & 4177 & 42 & 469 & 142 & 4830 & 4182 & 40 & 481 & 143 & 4846 & 4188 & 38 & 494 & 143 & 4863 & 4194 & \({ }^{36}\) & 507 & 144 & 4882 & 4201 & 35 & 521 & 144 & 4902 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2021} & \multicolumn{5}{|c|}{Predicted Flows, 2022} & \multicolumn{5}{|c|}{Predicted Flows, 2023} & \multicolumn{5}{|c|}{Predicted Flows, 2024} & \multicolumn{5}{|c|}{Predicted Flows, 2025} \\
\hline From & то & Car & Taxi & Lgv & Hev & Total & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & Lev & Hgv & Total & Car & Taxi & Lev & Hgv & Total & Car & Taxi & Lgv & Hgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 90 & 0 & 4 & 3 & 98 & 91 & 0 & 5 & 3 & 99 & 91 & 0 & 5 & 3 & 100 & 92 & 0 & 5 & 3 & 100 & 92 & 0 & 5 & 3 & 101 \\
\hline & A4 (East) & 1036 & 15 & 158 & 58 & 1268 & 1033 & 14 & 162 & 58 & 1267 & 1029 & 13 & 167 & 58 & 1267 & 1025 & 12 & 171 & 58 & 1266 & 1022 & 11 & 176 & 58 & 1267 \\
\hline & Syon Lane (South) & 64 & 1 & 12 & 3 & 80 & 67 & 1 & 12 & 3 & 83 & 69 & 1 & 13 & 4 & 86 & 72 & 1 & 14 & 4 & 90 & 74 & 1 & 14 & 4 & 94 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 458 & 2 & \({ }^{93}\) & 6 & 558 & 461 & 2 & 94 & 6 & 563 & 465 & 2 & 95 & 6 & 568 & 468 & 2 & 96 & 7 & 573 & 472 & 2 & 97 & 7 & 578 \\
\hline & Syon Lane (South) & 194 & 1 & 32 & 3 & 229 & 198 & 1 & 33 & 3 & 234 & 201 & 1 & 34 & 3 & 239 & 204 & 1 & 35 & 3 & 243 & 208 & 1 & 37 & 3 & 248 \\
\hline & A4 (West) & 35 & 0 & 3 & 1 & 40 & 36 & 0 & 3 & 1 & 41 & 37 & 0 & 4 & 1 & 42 & 38 & 0 & 4 & 1 & 44 & 39 & 0 & 4 & 1 & 45 \\
\hline \multirow{3}{*}{\({ }^{\text {A4 (East) }}\)} & Syon Lane (South) & 174 & 0 & 20 & 8 & 202 & 168 & 0 & 20 & 8 & 196 & 164 & 0 & 19 & 8 & 190 & 159 & 0 & 18 & 8 & 185 & 154 & 0 & 18 & 8 & 179 \\
\hline & A4 (West) & 1390 & 7 & 132 & 39 & 1567 & 1397 & 7 & \({ }^{137}\) & 40 & 1580 & 1404 & 7 & 142 & 41 & 1593 & 1412 & 7 & 147 & 41 & 1606 & 1419 & 7 & 152 & 42 & 1619 \\
\hline & Syon Lane (North) & 189 & 3 & 29 & 4 & 225 & 192 & 3 & 30 & 4 & 229 & 195 & 3 & 31 & 5 & 234 & 198 & 3 & 33 & 5 & 238 & 201 & 3 & 34 & 5 & 243 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 46 & 1 & 4 & 1 & 52 & 46 & 1 & 4 & 1 & 51 & 46 & 1 & 4 & 1 & 51 & 45 & 1 & 4 & 1 & 51 & 45 & 1 & 4 & 1 & 51 \\
\hline & Syon Lane (North) & 221 & 0 & 24 & 4 & 248 & 223 & 0 & 26 & 4 & 253 & 226 & 0 & 28 & 4 & 259 & 229 & 0 & 30 & 5 & 264 & 232 & 0 & \({ }^{3}\) & 5 & 270 \\
\hline & A4 (East) & 312 & 4 & 25 & 15 & 355 & 306 & 4 & 25 & 14 & 349 & 300 & 3 & 26 & 13 & 343 & 294 & 3 & 27 & 13 & 336 & 288 & 3 & 27 & 12 & 330 \\
\hline \multicolumn{2}{|l|}{Totals} & 4209 & 33 & 536 & 145 & 4923 & 4217 & 32 & 551 & 146 & 4947 & 4226 & 31 & 567 & 147 & 4971 & 4236 & 30 & 583 & 149 & 4997 & 4246 & 29 & 601 & 150 & 5025 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2026} & \multicolumn{5}{|c|}{Predicted Flows, 2027} & \multicolumn{5}{|c|}{Predicted Flows, 2028} & \multicolumn{5}{|c|}{Predicted Flows, 2029} & \multicolumn{5}{|c|}{Predicted Flows, 2030} \\
\hline From & то & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & LGv & Hgv & Total & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & LGV & Hgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 93 & 0 & 6 & 3 & 102 & 94 & 0 & 6 & 3 & 103 & 94 & 0 & 6 & 3 & 104 & 95 & 0 & 7 & 3 & 105 & 95 & 0 & 7 & 3 & 105 \\
\hline & A4 (East) & 1018 & 10 & 181 & 58 & 1267 & 1015 & 9 & 186 & 58 & 1267 & 1011 & 8 & 191 & 58 & 1268 & 1007 & 7 & 196 & 58 & 1269 & 1004 & 7 & 201 & 58 & 1270 \\
\hline & Syon Lane (South) & 77 & 1 & 15 & 5 & 97 & 80 & 1 & 16 & 5 & 101 & 83 & 1 & 16 & 6 & 106 & 86 & 1 & 17 & 6 & 110 & 89 & 1 & 18 & 7 & 115 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 475 & 2 & 98 & 7 & 583 & 479 & 2 & 99 & 8 & 588 & 482 & 2 & 100 & 8 & 593 & 486 & 2 & 102 & 9 & 598 & 489 & 2 & 103 & 9 & 603 \\
\hline & Syon Lane (South) & 211 & 1 & 38 & 3 & 253 & 215 & 1 & 40 & 4 & 258 & 218 & 1 & 41 & 4 & 263 & 222 & 1 & 43 & 4 & 269 & 226 & 1 & 44 & 4 & 274 \\
\hline & A4 (West) & 40 & 0 & 4 & 1 & 46 & 41 & 0 & 5 & 1 & 47 & 43 & 0 & 5 & 1 & 49 & 44 & 0 & 5 & 1 & 50 & 45 & 0 & 6 & 1 & 52 \\
\hline \multirow{3}{*}{\({ }^{\text {A (East) }}\)} & Syon Lane (South) & 150 & 0 & 17 & 8 & 174 & 145 & 0 & 16 & 7 & 169 & 141 & 0 & 16 & 7 & 164 & 137 & 0 & 15 & 7 & 159 & \({ }^{133}\) & 0 & 15 & 7 & 155 \\
\hline & A4 (West) & 1427 & 7 & 157 & 43 & 1633 & 1434 & 7 & 163 & 44 & 1647 & 1442 & 7 & 168 & 45 & 1661 & 1449 & 7 & 174 & 46 & 1676 & 1457 & 7 & 180 & 46 & 1690 \\
\hline & Syon Lane (North) & 204 & 3 & 35 & 5 & 248 & 207 & 3 & 37 & 5 & 252 & 211 & 3 & 38 & 5 & 257 & 214 & 3 & 40 & 6 & 262 & 217 & 3 & 41 & 6 & 268 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 45 & 1 & 4 & 1 & 50 & 45 & 1 & 4 & 1 & 50 & 45 & 1 & 4 & 1 & 50 & 44 & 1 & 4 & 1 & 50 & 44 & 1 & 4 & 1 & 49 \\
\hline & Syon Lane (North) & 235 & 0 & 36 & 5 & 276 & 237 & 0 & 39 & 6 & 283 & 240 & 0 & 42 & 6 & 289 & 243 & 0 & 46 & 7 & 296 & 246 & 0 & 50 & 8 & 304 \\
\hline & A4 (East) & 282 & 3 & 28 & 12 & 325 & 276 & 3 & 28 & 11 & 319 & 271 & 3 & 29 & 11 & 313 & 265 & 3 & 30 & 10 & 308 & 260 & 3 & 30 & 10 & 303 \\
\hline \multicolumn{2}{|l|}{Totals} & 4257 & 28 & 619 & 151 & 5054 & 4268 & 27 & 637 & 153 & 5085 & 4280 & 26 & 657 & 155 & 5118 & 4292 & 25 & 677 & 157 & 5152 & 4306 & 24 & 699 & 159 & 5188 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2031} \\
\hline From & тo & Car & Taxi & Lgv & HGv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 96 & 0 & 7 & 3 & 106 \\
\hline & A4 (East) & 1000 & 6 & 207 & 58 & 1271 \\
\hline & Syon Lane (South) & 92 & 1 & 19 & 7 & 119 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 493 & 2 & 104 & 10 & 609 \\
\hline & Syon Lane (South) & 229 & 1 & 46 & 4 & 280 \\
\hline & A4 (West) & 46 & 0 & 6 & 1 & 53 \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 129 & 0 & 14 & 7 & 150 \\
\hline & A4 (West) & 1465 & 7 & 187 & 47 & 1705 \\
\hline & Syon Lane (North) & 221 & 3 & 43 & 6 & 273 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 44 & 1 & 4 & 1 & 49 \\
\hline & Syon Lane (North) & 249 & 0 & 54 & 8 & 312 \\
\hline & A4 (East) & 255 & 3 & 31 & 9 & 298 \\
\hline \multicolumn{2}{|l|}{Totals} & 4319 & 24 & 721 & 162 & 5226 \\
\hline
\end{tabular}


\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{2012 Base (veh/h)} & \multicolumn{5}{|l|}{2031 Predicted (Source: LOHAM 3.10)} & \multicolumn{5}{|c|}{Predicted Flows, 2013} & \multicolumn{5}{|c|}{Predicted Flows, 2014} & \multicolumn{5}{|c|}{Predicted Flows, 2015} \\
\hline From & то & Car & Taxi & LGv & hgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lgv & Hgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 66 & 0 & 1 & 0 & 67 & 85 & 0 & 5 & 0 & 90 & 66 & 0 & 1 & 0 & 68 & 67 & 0 & 1 & 0 & 69 & 68 & 0 & 1 & 0 & 70 \\
\hline & A4 (East) & 959 & 37 & 66 & 18 & 1,080 & 921 & 30 & 112 & 20 & 1,083 & 957 & 36 & 68 & 18 & 1080 & 955 & 36 & 70 & 18 & 1079 & 953 & 35 & 72 & 18 & 1079 \\
\hline & Syon Lane (South) & 77 & 3 & 8 & 1 & 89 & 119 & 3 & 20 & 1 & 143 & 78 & 3 & 9 & 1 & 91 & 80 & 3 & 9 & 1 & 93 & 82 & 3 & 10 & 1 & 96 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 421 & 6 & 52 & 1 & 480 & 462 & 6 & 79 & 3 & 550 & 423 & 6 & 53 & 1 & 483 & 425 & 6 & 54 & 1 & 487 & 427 & 6 & 55 & 2 & 490 \\
\hline & Syon Lane (South) & 249 & 0 & 12 & 1 & 262 & 222 & 0 & 26 & 1 & 249 & 247 & 0 & 13 & 1 & 261 & 246 & 0 & 13 & 1 & 260 & 244 & 0 & 14 & 1 & 259 \\
\hline & A4 (West) & 54 & 0 & 2 & 0 & 56 & 42 & 0 & 5 & 0 & 48 & 53 & 0 & 2 & 0 & 56 & 52 & 0 & 3 & 0 & 55 & 52 & 0 & 3 & 0 & 55 \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 220 & 1 & 21 & 5 & 247 & 145 & 1 & 23 & 5 & 174 & 215 & 1 & 21 & 5 & 242 & 210 & 1 & 21 & 5 & 237 & 206 & 1 & 21 & 5 & 233 \\
\hline & A4 (West) & 1,621 & 10 & 163 & 24 & 1,818 & 1,481 & 10 & 272 & 33 & 1,797 & 1614 & 10 & 167 & 24 & 1815 & 1606 & 10 & 172 & 25 & 1812 & 1598 & 10 & 177 & 25 & 1810 \\
\hline & Syon Lane (North) & 172 & 1 & 47 & 3 & 222 & 140 & 1 & 40 & 3 & 183 & 170 & 1 & 47 & 3 & 220 & 168 & 1 & 46 & 3 & 217 & 166 & 1 & 46 & 3 & 215 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 98 & 0 & 10 & 1 & 110 & 123 & 0 & 18 & 1 & 142 & 100 & 0 & 11 & 1 & 111 & 101 & 0 & 11 & 1 & 113 & 102 & 0 & 11 & 1 & 114 \\
\hline & Syon Lane (North) & 240 & 1 & 24 & 1 & 266 & 268 & 1 & 64 & 3 & 337 & 241 & 1 & 25 & 1 & 269 & 243 & 1 & 27 & 1 & 272 & 244 & 1 & 28 & 1 & 274 \\
\hline & A4 (East) & 228 & 4 & 17 & 10 & 258 & 197 & 3 & 30 & 11 & 241 & 226 & 4 & 17 & 10 & 257 & 224 & 4 & 18 & 10 & 256 & 222 & 3 & 18 & 10 & 255 \\
\hline \multicolumn{2}{|l|}{Total} & 4,404 & 63 & 424 & 64 & 4,954 & 4,204 & 55 & 695 & 83 & 5,037 & 4391 & 62 & 434 & 65 & 4952 & 4378 & 62 & 445 & 66 & 4950 & 4366 & 62 & 456 & 66 & 4949 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A//Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2016} & \multicolumn{5}{|c|}{Predicted Flows, 2017} & \multicolumn{5}{|c|}{Predicted Flows, 2018} & \multicolumn{5}{|c|}{Predicted Flows, 2019} & \multicolumn{5}{|c|}{Predicted Flows, 2020} \\
\hline From & To & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lev & Hgv & Total & Car & Taxi & Lgv & hgv & Total & car & Taxi & Lev & hev & Total & Car & Taxi & Lev & HGv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 69 & 0 & 1 & 0 & 71 & 70 & 0 & 1 & 0 & 72 & 71 & 0 & 1 & 0 & 73 & 72 & 0 & 1 & 0 & 74 & 73 & 0 & 2 & 0 & 75 \\
\hline & A4 (East) & 951 & 35 & 74 & 19 & 1079 & 949 & 35 & 76 & 19 & 1078 & 947 & 34 & 78 & 19 & 1078 & 945 & 34 & 80 & 19 & 1078 & 943 & 34 & 82 & 19 & 1078 \\
\hline & Syon Lane (South) & 84 & 3 & 10 & 1 & 98 & 86 & 3 & 11 & 1 & 101 & 88 & 3 & 11 & 1 & 103 & 90 & 3 & 12 & 1 & 106 & 92 & 3 & 12 & 1 & 108 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 429 & 6 & 56 & 2 & 493 & 431 & 6 & 58 & 2 & 497 & 434 & 6 & 59 & 2 & 500 & \({ }^{436}\) & \({ }^{6}\) & 60 & 2 & 504 & 438 & 6 & 62 & 2 & 507 \\
\hline & Syon Lane (South) & 243 & 0 & 14 & 1 & 258 & 241 & 0 & 15 & 1 & 257 & 240 & 0 & 16 & 1 & 256 & \({ }^{238}\) & 0 & 16 & 1 & 255 & 237 & 0 & 17 & 1 & 255 \\
\hline & A4 (West) & 51 & 0 & 3 & 0 & 54 & 50 & 0 & 3 & 0 & 54 & 50 & 0 & 3 & 0 & 53 & 49 & 0 & 3 & 0 & 58 & 49 & 0 & 3 & 0 & 52 \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 201 & 1 & 22 & 5 & 229 & 197 & 1 & 22 & 5 & 224 & 193 & 1 & 22 & 5 & 220 & 188 & 1 & 22 & 5 & 216 & 184 & 1 & 22 & 5 & 212 \\
\hline & A4 (West) & 1591 & 10 & 182 & 26 & 1808 & 1583 & 10 & 187 & 26 & 1805 & 1576 & 10 & 192 & 26 & 1804 & 1568 & 10 & 197 & 27 & 1802 & 1561 & 10 & 202 & 27 & 1800 \\
\hline & Syon Lane (North) & 164 & 1 & 45 & 3 & 213 & 163 & 1 & 45 & 3 & 211 & 161 & 1 & 45 & 3 & 209 & 158 & 1 & 44 & 3 & 207 & 157 & 1 & 44 & 3 & 205 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 103 & 0 & 12 & 1 & 116 & 104 & 0 & 12 & 1 & 117 & 106 & 0 & 12 & 1 & 119 & 107 & 0 & 13 & 1 & 121 & 108 & 0 & 13 & 1 & 122 \\
\hline & Syon Lane (North) & 245 & 1 & 30 & 1 & 277 & 247 & 1 & 31 & 1 & 280 & 248 & 1 & 33 & 1 & 284 & 250 & 1 & 35 & 1 & 287 & 251 & 1 & 36 & 1 & 290 \\
\hline & A4 (East) & 221 & 3 & 19 & 10 & 254 & 219 & 3 & 20 & 10 & 253 & 218 & 3 & 20 & 10 & 251 & 216 & \({ }^{3}\) & 21 & 10 & 250 & 214 & 3 & 22 & 10 & 249 \\
\hline \multicolumn{2}{|l|}{Totals} & 4353 & 61 & 467 & 67 & 4949 & 4341 & 61 & 479 & 68 & 4949 & 4330 & 60 & 491 & 69 & 4950 & 4819 & 60 & 504 & 70 & 4952 & 4308 & 59 & 517 & 71 & 4955 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2021} & \multicolumn{5}{|c|}{Predicted Flows, 2022} & \multicolumn{5}{|c|}{Predicted Flows, 2023} & \multicolumn{5}{|c|}{Predicted Flows, 2024} & \multicolumn{5}{|c|}{Predicted Flows, 2025} \\
\hline From & то & Car & Taxi & LGv & Hgv & Total & Car & Taxi & LGv & Hgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lgv & HGv & Total & Car & Taxi & Lgv & нgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 74 & 0 & 2 & 0 & 76 & 75 & 0 & 2 & 0 & 78 & 76 & 0 & 2 & 0 & 79 & 77 & 0 & 2 & 0 & 80 & 78 & 0 & 3 & 0 & 81 \\
\hline & A4 (East) & 941 & 33 & 85 & 19 & 1078 & 939 & 33 & 87 & 19 & 1078 & 937 & 33 & 90 & 19 & 1078 & 935 & 32 & 92 & 19 & 1078 & 933 & 32 & 95 & 20 & 1079 \\
\hline & Syon Lane (South) & 94 & 3 & 13 & 1 & 111 & 96 & 3 & 13 & 1 & 114 & 99 & 3 & 14 & 1 & 117 & 101 & 3 & 15 & 1 & 120 & 103 & 3 & 15 & 1 & \({ }^{123}\) \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 440 & 6 & 63 & 2 & 511 & 442 & 6 & 64 & 2 & 514 & 444 & 6 & 66 & 2 & 518 & 446 & 6 & 67 & 2 & 522 & 448 & 6 & 69 & 3 & 526 \\
\hline & Syon Lane (South) & 236 & 0 & 17 & 1 & 254 & 234 & 0 & 18 & 1 & 253 & 233 & 0 & 19 & 1 & 252 & 231 & 0 & 20 & 1 & 252 & 230 & 0 & 20 & 1 & 251 \\
\hline & A4 (West) & 48 & 0 & 3 & 0 & 52 & 47 & 0 & 4 & 0 & 51 & 47 & 0 & 4 & 0 & 51 & 46 & 0 & 4 & 0 & 51 & 46 & 0 & 4 & 0 & 50 \\
\hline \multirow{3}{*}{\({ }^{\text {A4 (East) }}\)} & Syon Lane (South) & 180 & 1 & 22 & 5 & 208 & 176 & 1 & 22 & 5 & 205 & 173 & 1 & 22 & 5 & 201 & 169 & 1 & 23 & 5 & 197 & 165 & 1 & 23 & 5 & 194 \\
\hline & A4 (West) & 1553 & 10 & 208 & 28 & 1799 & 1546 & 10 & 213 & 28 & 1798 & 1539 & 10 & 219 & 29 & 1797 & 1531 & 10 & 225 & 29 & 1796 & 1524 & 10 & 231 & 30 & 1795 \\
\hline & Syon Lane (North) & 156 & 1 & 43 & 3 & 203 & 154 & 1 & 43 & 3 & 201 & 152 & 1 & 43 & 3 & 199 & 151 & 1 & 42 & 3 & 197 & 149 & 1 & 42 & 3 & 195 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 109 & 0 & 14 & 1 & 124 & 111 & 0 & 14 & 1 & 126 & 112 & 0 & 14 & 1 & 127 & 113 & 0 & 15 & 1 & 129 & 114 & 0 & 15 & 1 & 131 \\
\hline & Syon Lane (North) & 253 & 1 & 38 & 1 & 294 & 254 & 1 & 40 & 2 & 297 & 256 & 1 & 43 & 2 & 301 & 257 & 1 & 45 & 2 & 305 & 259 & 1 & 47 & 2 & 309 \\
\hline & A4 (East) & 213 & 3 & 22 & 10 & 248 & 211 & 3 & 23 & 10 & 247 & 209 & 3 & 24 & 10 & 247 & 208 & 3 & 24 & 10 & 246 & 206 & 3 & 25 & 10 & 245 \\
\hline \multicolumn{2}{|l|}{Totals} & 4297 & 59 & 531 & 72 & 4958 & 4286 & 59 & 545 & 73 & 4962 & 4276 & 58 & 559 & 74 & 4967 & 4266 & 58 & 574 & 75 & 4972 & 4256 & 58 & 590 & 76 & 4977 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2026} & \multicolumn{5}{|c|}{Predicted Flows, 2027} & \multicolumn{5}{|c|}{Predicted Flows, 2028} & \multicolumn{5}{|c|}{Predicted Flows, 2029} & \multicolumn{5}{|c|}{Predicted Flows, 2030} \\
\hline From & то & Car & Taxi & Lev & нgv & Total & Car & Taxi & Lgv & Hgv & Total & Car & Taxi & Lgv & hgv & Total & Car & Taxi & Lev & hgv & Total & Car & Taxi & Lev & Hgv & Total \\
\hline \multirow{3}{*}{A4 (West)} & Syon Lane (North) & 79 & 0 & 3 & 0 & \({ }^{83}\) & 80 & 0 & 3 & 0 & 84 & 82 & 0 & 4 & 0 & 86 & \({ }^{83}\) & 0 & 4 & 0 & 87 & 84 & 0 & 4 & 0 & 89 \\
\hline & A4 (East) & 931 & 32 & 97 & 20 & 1079 & 929 & 31 & 100 & 20 & 1080 & 927 & 31 & 103 & 20 & 1080 & 925 & 31 & 106 & 20 & 1081 & 923 & 30 & 109 & 20 & 1082 \\
\hline & Syon Lane (South) & 106 & 3 & 16 & 1 & 126 & 108 & 3 & 17 & 1 & 129 & 111 & 3 & 18 & 1 & 132 & 113 & 3 & 18 & 1 & 136 & 116 & 3 & 19 & 1 & 139 \\
\hline \multirow{3}{*}{Syon Lane (Noth)} & A4 (East) & 451 & 6 & 70 & 3 & 530 & 453 & 6 & 72 & 3 & 533 & 455 & 6 & 74 & 3 & 537 & 457 & 6 & 75 & 3 & 541 & 459 & 6 & 77 & 3 & 546 \\
\hline & Syon Lane (South) & 229 & 0 & 21 & 1 & 251 & 227 & 0 & 22 & 1 & 250 & 226 & 0 & 23 & 1 & 250 & 224 & 0 & 24 & 1 & 249 & 223 & 0 & 25 & 1 & 249 \\
\hline & A4 (West) & 45 & 0 & 4 & 0 & 50 & 45 & 0 & 5 & 0 & 50 & 44 & 0 & 5 & 0 & 49 & 43 & 0 & 5 & 0 & 49 & 43 & 0 & 5 & 0 & 49 \\
\hline \multirow{3}{*}{A4 (East)} & Syon Lane (South) & 162 & 1 & \({ }^{23}\) & 5 & 190 & 158 & 1 & 23 & 5 & 187 & 155 & 1 & \({ }^{23}\) & 5 & 184 & 151 & 1 & 23 & 5 & 180 & 148 & 1 & 23 & 5 & 177 \\
\hline & A4 (West) & 1517 & 10 & 238 & 31 & 1795 & 1510 & 10 & 244 & 31 & 1795 & 1503 & 10 & 251 & 32 & 1795 & 1495 & 10 & 258 & 32 & 1795 & 1488 & 10 & 265 & 33 & 1796 \\
\hline & Syon Lane (North) & 148 & 1 & 42 & 3 & 193 & 146 & 1 & 41 & 3 & 191 & 144 & 1 & 41 & 3 & 189 & 143 & 1 & 40 & 3 & 187 & 141 & 1 & 40 & 3 & 185 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 116 & 0 & 16 & 1 & 133 & 117 & 0 & 16 & 1 & 134 & 118 & 0 & 17 & 1 & 136 & 120 & 0 & 17 & 1 & 138 & \({ }^{121}\) & 0 & 18 & 1 & 140 \\
\hline & Syon Lane (North) & 260 & 1 & 50 & 2 & 313 & 262 & 1 & 52 & 2 & 318 & 263 & 1 & 55 & 2 & 322 & 265 & 1 & 58 & 3 & 327 & 266 & 1 & 61 & 3 & 332 \\
\hline & A4 (East) & 205 & 3 & 26 & 10 & 244 & 203 & 3 & 27 & 10 & 243 & 202 & 3 & 27 & 10 & 243 & 200 & 3 & 28 & 11 & 242 & 199 & 3 & 29 & 11 & 241 \\
\hline \multicolumn{2}{|l|}{Totals} & 4247 & 57 & 606 & 77 & 4986 & 4238 & 57 & 622 & 78 & 4995 & 4229 & 56 & 639 & 79 & 5004 & 4220 & 56 & 657 & 80 & 5014 & 4212 & 56 & 676 & 82 & 5025 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{A4/Syon Lane Junction} & \multicolumn{5}{|c|}{Predicted Flows, 2031} \\
\hline From & то & Car & Taxi & Lev & Hgv & Total \\
\hline \multirow{3}{*}{\({ }^{\text {A }}\) (West)} & Syon Lane (North) & 85 & 0 & 5 & 0 & 90 \\
\hline & A4 (East) & 921 & 30 & 112 & 20 & 1083 \\
\hline & Syon Lane (South) & 119 & 3 & 20 & 1 & 143 \\
\hline \multirow{3}{*}{Syon Lane (North)} & A4 (East) & 462 & 6 & 79 & 3 & 550 \\
\hline & Syon Lane (South) & 222 & 0 & 26 & 1 & 249 \\
\hline & A4 (West) & 42 & 0 & 5 & 0 & 48 \\
\hline \multirow{3}{*}{\({ }^{\text {A4 (East) }}\)} & Syon Lane (South) & 145 & 1 & 23 & 5 & 174 \\
\hline & A4 (West) & 1481 & 10 & 272 & 33 & 1797 \\
\hline & Syon Lane (North) & 140 & 1 & 40 & 3 & 183 \\
\hline \multirow{3}{*}{Syon Lane (South)} & A4 (West) & 123 & 0 & 18 & 1 & 142 \\
\hline & Syon Lane (North) & 268 & 1 & 64 & 3 & 337 \\
\hline & A4 (East) & 197 & 3 & 30 & 11 & 241 \\
\hline \multicolumn{2}{|l|}{Totals} & 4204 & 55 & 695 & 83 & 5037 \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|l|}{\multirow[t]{2}{*}{\[
\begin{aligned}
& \text { Summary - 2019-2031 Pe } \\
& \text { A4/Syon Lane Junction }
\end{aligned}
\]}} & ntage & Chang & & & & \multirow[t]{3}{*}{\begin{tabular}{l}
Key \\
Traftic reduction \\
Traffic increase 0\% to \(10 \%\)
\end{tabular}} \\
\hline & & \multicolumn{5}{|l|}{Traffic Growth - 2019-2031} & \\
\hline From & то & Car & Taxi & Lgv & Hgv & Total & \\
\hline & Syon Lane (North) & 17.8\% & 11.1\% & 242.2\% & 16.5\% & 22.1\% & Trafici increase 10\% to 25\% \\
\hline \[
\left.\right|_{\text {(West) }} ^{A 4}
\] & A4 (East) & -2.6\% & -11.9\% & 39.6\% & 7.2\% & 0.4\% & Traflic increase \(>25 \%\) \\
\hline & Syon Lane (South) & 31.8\% & -14.5\% & 75.6\% & 43.7\% & 35.4\% & Traticic increase > 100\% \\
\hline & A4 (East) & 5.9\% & 0.4\% & 30.7\% & 83,3\% & 9.1\% & \\
\hline Lane & Syon Lane (South) & -7.0\% & 0.0\% & 58.9\% & 84.1\% & -2.5\% & \\
\hline & A4 (West) & -14.0\% & 183.3\% & 71.3\% & 47.1\% & -8.2\% & \\
\hline & Syon Lane (South) & -23.1\% & 5.0\% & 7.0\% & 2.0\% & -19.4\% & \\
\hline \[
\sum_{\text {(East) }}^{A 4}
\] & A4 (West) & -5.5\% & 5.0\% & 38.1\% & 23.8\% & -0.3\% & \\
\hline & Syon Lane (North) & -12.1\% & 2.3\% & -10.1\% & 14.0\% & -11.3\% & \\
\hline & A4 (West) & 14.9\% & 10.6\% & 43.5\% & 2.3\% & 17.8\% & \\
\hline Lane & Syon Lane (North) & 7.2\% & -2.2\% & 86.4\% & 142.0\% & 17.3\% & \\
\hline & A4 (East) & -8.6\% & -19.2\% & 44.6\% & 1.1\% & -3.9\% & \\
\hline Totals & & -2.7\% & -7.5\% & 37.9\% & 18.6\% & 1.7\% & \\
\hline
\end{tabular}

Royal
HaskoningDHV
Appendix R - 2035 'Future Base and 'Operational' Traffic Flows







































Royal
HaskoningDHV

\section*{Appendix S - Proposed Gillette Corner and Site Access Arrangement}


Royal
HaskoningDHV

\section*{Appendix T - Construction Route Plan}


Royal
HaskoningDHV
Appendix U - Multi-Modal Assessment
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Time Period} & \multicolumn{14}{|c|}{Total Tesco Person Trips} \\
\hline & \multicolumn{2}{|l|}{Pedestrian Trips \({ }^{+}\)} & \multicolumn{2}{|r|}{Cycle Trips} & \multicolumn{2}{|l|}{Bus Trips (Service H28)} & \multicolumn{2}{|l|}{Vehicle Drivers} & \multicolumn{2}{|l|}{Vehicle Passenger*} & \multicolumn{2}{|l|}{Motorcycle Trips} & \multicolumn{2}{|l|}{Total Person Trips} \\
\hline & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures \\
\hline 07:00-07:15 & 8 & 11 & 0 & 0 & 1 & 4 & 21 & 18 & 5 & 4 & 0 & 1 & 35 & 38 \\
\hline 07:15-07:30 & 5 & 6 & 0 & 2 & 0 & 1 & 32 & 25 & 7 & 6 & 0 & 0 & 44 & 40 \\
\hline 07:30-07:45 & 9 & 7 & 1 & 0 & 0 & 0 & 31 & 25 & 7 & 6 & 0 & 0 & 48 & 38 \\
\hline 07:45-08:00 & 4 & 9 & 2 & 0 & 2 & 0 & 64 & 27 & 14 & 6 & 1 & 0 & 87 & 42 \\
\hline 08:00-08:15 & 11 & 7 & 1 & 1 & 0 & 0 & 80 & 31 & 22 & 9 & 2 & 1 & 116 & 49 \\
\hline 08:15-08:30 & 14 & 11 & 0 & 1 & 2 & 0 & 42 & 62 & 12 & 17 & 0 & 2 & 70 & 93 \\
\hline 08:30-08:45 & 11 & 11 & 1 & 1 & 0 & 0 & 66 & 59 & 18 & 17 & 1 & 0 & 97 & 88 \\
\hline 08:45-09:00 & 21 & 19 & 1 & 1 & 2 & 2 & 94 & 31 & 26 & 9 & 0 & 0 & 144 & 62 \\
\hline 09:00-09:15 & 9 & 27 & 0 & 0 & 1 & 0 & 114 & 43 & 36 & 14 & 0 & 1 & 160 & 85 \\
\hline 09:15-09:30 & 17 & 37 & 0 & 0 & 0 & 0 & 98 & 48 & 31 & 15 & 1 & 1 & 147 & 101 \\
\hline 09:30-09:45 & 15 & 34 & 0 & 0 & 3 & 0 & 117 & 59 & 37 & 19 & 0 & 0 & 172 & 112 \\
\hline 09:45-10:00 & 17 & 41 & 0 & 0 & 2 & 1 & 78 & 62 & 25 & 20 & 0 & 0 & 122 & 124 \\
\hline 10:00-10:15 & 13 & 26 & 0 & 0 & 0 & 0 & 89 & 60 & 31 & 21 & 0 & 0 & 133 & 107 \\
\hline 10:15-10:30 & 25 & 27 & 2 & 0 & 4 & 3 & 85 & 61 & 30 & 21 & 0 & 0 & 146 & 112 \\
\hline 10:30-10:45 & 20 & 16 & 1 & 1 & 4 & 1 & 94 & 66 & 33 & 23 & 0 & 0 & 152 & 107 \\
\hline 10:45-11:00 & 14 & 17 & 1 & 1 & 1 & 1 & 100 & 93 & 35 & 32 & 1 & 0 & 152 & 144 \\
\hline 11:00-11:15 & 19 & 14 & 0 & 0 & 0 & 3 & 71 & 90 & 28 & 36 & 0 & 2 & 118 & 145 \\
\hline 11:15-11:30 & 29 & 27 & 1 & 1 & 2 & 1 & 103 & 69 & 41 & 27 & 0 & 0 & 176 & 125 \\
\hline 11:30-11:45 & 33 & 14 & 1 & 0 & 2 & 1 & 81 & 102 & 32 & 40 & 0 & 0 & 149 & 157 \\
\hline 11:45-12:00 & 43 & 19 & 1 & 1 & 0 & 2 & 99 & 109 & 39 & 43 & 0 & 0 & 182 & 174 \\
\hline 12:00-12:15 & 71 & 26 & 1 & 1 & 3 & 1 & 110 & 122 & 40 & 44 & 0 & 0 & 225 & 194 \\
\hline 12:15-12:30 & 62 & 45 & 2 & 1 & 4 & 4 & 112 & 125 & 41 & 46 & 1 & 0 & 222 & 221 \\
\hline 12:30-12:45 & 64 & 45 & 0 & 1 & 4 & 4 & 88 & 123 & 32 & 45 & 1 & 1 & 189 & 219 \\
\hline 12:45-13:00 & 60 & 67 & 1 & 1 & 1 & 3 & 120 & 114 & 44 & 41 & 0 & 1 & 226 & 227 \\
\hline 13:00-13:15 & 56 & 49 & 0 & 2 & 0 & 0 & 112 & 99 & 42 & 37 & 0 & 0 & 210 & 187 \\
\hline 13:15:13:30 & 63 & 49 & 2 & 1 & 2 & 2 & 98 & 112 & 37 & 42 & 0 & 0 & 202 & 206 \\
\hline 13:30-13:45 & 56 & 84 & 0 & 0 & 4 & 0 & 107 & 116 & 40 & 44 & 1 & 0 & 208 & 244 \\
\hline 13:45-14:00 & 25 & 34 & 1 & 3 & 0 & 4 & 86 & 118 & 33 & 45 & 1 & 0 & 146 & 204 \\
\hline 14:00-14:15 & 39 & 46 & 1 & 1 & 4 & 1 & 85 & 104 & 34 & 42 & 0 & 1 & 163 & 195 \\
\hline 14:15-14:30 & 27 & 28 & 2 & 1 & 3 & 1 & 89 & 94 & 36 & 38 & 1 & 1 & 158 & 163 \\
\hline 14:30-14:45 & 23 & 18 & 2 & 2 & 1 & 1 & 128 & 88 & 51 & 35 & 0 & 1 & 205 & 145 \\
\hline 14:45-15:00 & 23 & 16 & 0 & 1 & 0 & 4 & 111 & 103 & 45 & 41 & 0 & 0 & 179 & 165 \\
\hline 15:00-15:15 & 40 & 30 & 0 & 1 & 2 & 1 & 78 & 139 & 32 & 58 & 0 & 0 & 152 & 229 \\
\hline 15:15-15:30 & 28 & 21 & 0 & 1 & 3 & 0 & 97 & 104 & 40 & 43 & 0 & 1 & 168 & 170 \\
\hline 15:30-15:45 & 23 & 15 & 2 & 0 & 0 & 1 & 99 & 65 & 41 & 27 & 0 & 0 & 165 & 108 \\
\hline 15:45-16:00 & 16 & 28 & 0 & 0 & 0 & 1 & 102 & 104 & 42 & 43 & 1 & 0 & 161 & 176 \\
\hline 16:00-16:15 & 35 & 15 & 0 & 0 & 5 & 1 & 78 & 112 & 33 & 48 & 1 & 1 & 152 & 177 \\
\hline 16:15-16:30 & 31 & 28 & 1 & 1 & 0 & 0 & 108 & 125 & 46 & 53 & 0 & 1 & 186 & 208 \\
\hline 16:30-16:45 & 25 & 20 & 0 & 0 & 4 & 8 & 87 & 90 & 37 & 38 & 2 & 1 & 155 & 157 \\
\hline 16:45-17:00 & 18 & 26 & 2 & 0 & 2 & 6 & 76 & 108 & 32 & 46 & 0 & 0 & 130 & 186 \\
\hline 17:00-17:15 & 33 & 30 & 0 & 1 & 1 & 2 & 111 & 80 & 46 & 33 & 1 & 2 & 192 & 148 \\
\hline 17:15-17:30 & 32 & 21 & 1 & 1 & 2 & 1 & 82 & 98 & 34 & 41 & 0 & 1 & 151 & 163 \\
\hline 17:30-17:45 & 45 & 23 & 4 & 2 & 2 & 2 & 93 & 107 & 39 & 45 & 1 & 0 & 184 & 179 \\
\hline 17:45-18:00 & 39 & 33 & 4 & 2 & 1 & 1 & 95 & 101 & 40 & 42 & 0 & 1 & 179 & 180 \\
\hline 18:00-18:15 & 46 & 28 & 5 & 4 & 1 & 4 & 102 & 97 & 42 & 40 & 0 & 0 & 196 & 173 \\
\hline 18:15-18:30 & 38 & 27 & 0 & 2 & 3 & 0 & 89 & 110 & 36 & 45 & 2 & 1 & 168 & 185 \\
\hline 18:30-18:45 & 36 & 30 & 0 & 2 & 4 & 4 & 80 & 119 & 33 & 49 & 1 & 3 & 154 & 207 \\
\hline 18:45-19:00 & 37 & 36 & 0 & 0 & 0 & 2 & 74 & 84 & 30 & 34 & 0 & 1 & 141 & 157 \\
\hline Total & 1428 & 1298 & 44 & 42 & 82 & 79 & 4256 & 4101 & 1589 & 1570 & 20 & 26 & 7419 & 7116 \\
\hline Total Two-way & \multicolumn{2}{|r|}{2726} & \multicolumn{2}{|r|}{86} & \multicolumn{2}{|c|}{161} & \multicolumn{2}{|c|}{8357} & \multicolumn{2}{|c|}{3159} & \multicolumn{2}{|c|}{46} & \multicolumn{2}{|c|}{14535} \\
\hline Modal Split & \multicolumn{2}{|r|}{18.8\%} & \multicolumn{2}{|r|}{0.6\%} & \multicolumn{2}{|c|}{1.1\%} & \multicolumn{2}{|c|}{57.5\%} & \multicolumn{2}{|c|}{21.7\%} & \multicolumn{2}{|c|}{0.3\%} & \multicolumn{2}{|c|}{100.0\%} \\
\hline
\end{tabular}

\footnotetext{
Vehicle passengers, estimated, based on TRICS Surveys of comparable sites
}
\({ }^{+}\)Pedestrin trips include rail passengers and bus trips, other than those associated with bus service H 28
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Time Period} & \multicolumn{14}{|c|}{Total Tesco Person Trips} \\
\hline & \multicolumn{2}{|l|}{Pedestrian Trips \({ }^{+}\)} & \multicolumn{2}{|r|}{Cycle Trips} & \multicolumn{2}{|l|}{Bus Trips (Service H28)} & \multicolumn{2}{|l|}{Vehicle Drivers} & \multicolumn{2}{|l|}{Vehicle Passenger*} & \multicolumn{2}{|l|}{Motorcycle Trips} & \multicolumn{2}{|l|}{Total Person Trips} \\
\hline & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures & Arrivals & Departures \\
\hline 07:00-07:15 & 5 & 5 & 0 & 1 & 3 & 2 & 32 & 4 & 8 & 1 & 1 & 2 & 49 & 15 \\
\hline 07:15-07:30 & 1 & 3 & 0 & 2 & 0 & 4 & 35 & 16 & 9 & 4 & 0 & 0 & 45 & 29 \\
\hline 07:30-07:45 & 5 & 0 & 2 & 0 & 0 & 1 & 43 & 33 & 11 & 8 & 0 & 0 & 61 & 42 \\
\hline 07:45-08:00 & 12 & 3 & 1 & 1 & 4 & 1 & 50 & 39 & 12 & 10 & 0 & 1 & 79 & 55 \\
\hline 08:00-08:15 & 7 & 5 & 0 & 0 & 0 & 2 & 58 & 33 & 17 & 10 & 0 & 0 & 82 & 50 \\
\hline 08:15-08:30 & 5 & 11 & 0 & 0 & 3 & 1 & 64 & 47 & 19 & 14 & 0 & 0 & 91 & 73 \\
\hline 08:30-08:45 & 11 & 6 & 0 & 0 & 1 & 0 & 72 & 53 & 21 & 16 & 0 & 0 & 105 & 75 \\
\hline 08:45-09:00 & 7 & 9 & 2 & 0 & 5 & 3 & 75 & 46 & 22 & 14 & 0 & 0 & 111 & 72 \\
\hline 09:00-09:15 & 9 & 10 & 0 & 1 & 2 & 2 & 89 & 65 & 34 & 25 & 0 & 0 & 134 & 103 \\
\hline 09:15-09:30 & 15 & 6 & 0 & 0 & 1 & 2 & 88 & 75 & 33 & 28 & 0 & 0 & 137 & 111 \\
\hline 09:30-09:45 & 13 & 12 & 0 & 2 & 2 & 0 & 101 & 77 & 38 & 29 & 1 & 0 & 155 & 120 \\
\hline 09:45-10:00 & 20 & 18 & 0 & 0 & 0 & 3 & 100 & 95 & 38 & 36 & 0 & 1 & 158 & 153 \\
\hline 10:00-10:15 & 11 & 15 & 0 & 0 & 3 & 1 & 105 & 93 & 46 & 40 & 0 & 0 & 165 & 149 \\
\hline 10:15-10:30 & 22 & 11 & 1 & 0 & 1 & 3 & 123 & 74 & 53 & 32 & 1 & 0 & 201 & 120 \\
\hline 10:30-10:45 & 15 & 13 & 1 & 0 & 4 & 3 & 138 & 112 & 60 & 49 & 0 & 1 & 218 & 178 \\
\hline 10:45-11:00 & 15 & 13 & 0 & 1 & 1 & 2 & 123 & 114 & 53 & 49 & 0 & 0 & 192 & 179 \\
\hline 11:00-11:15 & 23 & 12 & 0 & 1 & 1 & 2 & 133 & 123 & 66 & 61 & 0 & 0 & 223 & 199 \\
\hline 11:15-11:30 & 30 & 13 & 1 & 1 & 7 & 3 & 116 & 108 & 58 & 54 & 0 & 0 & 212 & 179 \\
\hline 11:30-11:45 & 14 & 15 & 1 & 2 & 1 & 4 & 138 & 138 & 69 & 69 & 0 & 0 & 223 & 228 \\
\hline 11:45-12:00 & 19 & 13 & 0 & 1 & 0 & 4 & 135 & 138 & 67 & 69 & 0 & 0 & 221 & 225 \\
\hline 12:00-12:15 & 29 & 20 & 0 & 0 & 2 & 1 & 124 & 120 & 61 & 59 & 1 & 0 & 217 & 200 \\
\hline 12:15-12:30 & 15 & 23 & 0 & 0 & 4 & 4 & 129 & 136 & 64 & 67 & 1 & 0 & 213 & 230 \\
\hline 12:30-12:45 & 18 & 16 & 0 & 0 & 3 & 0 & 124 & 123 & 61 & 61 & 0 & 1 & 206 & 201 \\
\hline 12:45-13:00 & 28 & 16 & 3 & 2 & 0 & 3 & 126 & 117 & 62 & 58 & 3 & 0 & 222 & 196 \\
\hline 13:00-13:15 & 36 & 37 & 1 & 1 & 5 & 4 & 119 & 120 & 59 & 60 & 0 & 2 & 220 & 224 \\
\hline 13:15:13:30 & 17 & 28 & 0 & 1 & 4 & 5 & 123 & 123 & 61 & 61 & 2 & 2 & 207 & 220 \\
\hline 13:30-13:45 & 23 & 19 & 1 & 0 & 0 & 1 & 122 & 115 & 61 & 57 & 1 & 1 & 208 & 193 \\
\hline 13:45-14:00 & 31 & 32 & 2 & 0 & 7 & 3 & 117 & 123 & 58 & 61 & 0 & 0 & 215 & 219 \\
\hline 14:00-14:15 & 30 & 20 & 2 & 1 & 1 & 3 & 133 & 115 & 69 & 60 & 0 & 1 & 235 & 200 \\
\hline 14:15-14:30 & 41 & 32 & 1 & 1 & 5 & 5 & 115 & 135 & 60 & 70 & 2 & 0 & 224 & 243 \\
\hline 14:30-14:45 & 20 & 31 & 1 & 3 & 0 & 0 & 134 & 111 & 69 & 57 & 0 & 1 & 224 & 203 \\
\hline 14:45-15:00 & 19 & 25 & 4 & 1 & 0 & 3 & 107 & 123 & 55 & 64 & 0 & 0 & 185 & 216 \\
\hline 15:00-15:15 & 22 & 21 & 1 & 3 & 1 & 2 & 110 & 125 & 59 & 67 & 0 & 2 & 193 & 220 \\
\hline 15:15-15:30 & 20 & 23 & 3 & 2 & 4 & 1 & 94 & 117 & 50 & 62 & 2 & 0 & 173 & 205 \\
\hline 15:30-15:45 & 19 & 22 & 2 & 1 & 2 & 1 & 103 & 125 & 55 & 67 & 1 & 1 & 182 & 217 \\
\hline 15:45-16:00 & 25 & 18 & 0 & 3 & 1 & 2 & 110 & 105 & 59 & 56 & 0 & 2 & 195 & 186 \\
\hline 16:00-16:15 & 25 & 21 & 1 & 0 & 6 & 1 & 103 & 104 & 57 & 58 & 0 & 0 & 192 & 184 \\
\hline 16:15-16:30 & 22 & 18 & 3 & 2 & 4 & 6 & 95 & 102 & 53 & 56 & 2 & 1 & 179 & 185 \\
\hline 16:30-16:45 & 22 & 21 & 0 & 1 & 1 & 0 & 115 & 107 & 64 & 59 & 2 & 1 & 204 & 189 \\
\hline 16:45-17:00 & 12 & 17 & 2 & 0 & 0 & 0 & 100 & 107 & 55 & 59 & 2 & 2 & 171 & 185 \\
\hline 17:00-17:15 & 31 & 16 & 0 & 2 & 0 & 1 & 88 & 115 & 47 & 61 & 1 & 1 & 167 & 196 \\
\hline 17:15-17:30 & 26 & 15 & 1 & 2 & 2 & 2 & 94 & 116 & 50 & 62 & 1 & 1 & 174 & 198 \\
\hline 17:30-17:45 & 24 & 23 & 2 & 5 & 2 & 3 & 106 & 98 & 56 & 52 & 0 & 1 & 190 & 182 \\
\hline 17:45-18:00 & 23 & 29 & 0 & 8 & 1 & 2 & 94 & 96 & 50 & 51 & 0 & 1 & 168 & 187 \\
\hline 18:00-18:15 & 25 & 29 & 1 & 0 & 0 & 3 & 92 & 115 & 44 & 55 & 3 & 0 & 165 & 202 \\
\hline 18:15-18:30 & 18 & 13 & 4 & 0 & 3 & 1 & 78 & 110 & 37 & 52 & 0 & 2 & 140 & 178 \\
\hline 18:30-18:45 & 29 & 19 & 1 & 0 & 1 & 0 & 89 & 87 & 42 & 41 & 0 & 1 & 162 & 148 \\
\hline 18:45-19:00 & 27 & 24 & 1 & 3 & 6 & 0 & 87 & 88 & 41 & 42 & 0 & 0 & 162 & 157 \\
\hline Total & 936 & 821 & 46 & 55 & 104 & 100 & 4849 & 4661 & 2295 & 2253 & 27 & 29 & 8257 & 7919 \\
\hline Total Two-way & \multicolumn{2}{|c|}{1757} & \multicolumn{2}{|r|}{101} & \multicolumn{2}{|c|}{204} & \multicolumn{2}{|c|}{9510} & \multicolumn{2}{|c|}{4548} & \multicolumn{2}{|c|}{56} & \multicolumn{2}{|c|}{16176} \\
\hline Modal Split & \multicolumn{2}{|r|}{10.9\%} & \multicolumn{2}{|r|}{0.6\%} & \multicolumn{2}{|c|}{1.3\%} & \multicolumn{2}{|c|}{58.8\%} & \multicolumn{2}{|c|}{28.1\%} & \multicolumn{2}{|c|}{0.3\%} & \multicolumn{2}{|c|}{100.0\%} \\
\hline
\end{tabular}

\footnotetext{
Vehicle passengers, estimated, based on TRICS Surveys of comparable sites
}
\({ }^{+}\)Pedestrin trips include rail passengers and bus trips, other than those associated with bus service H 28

Royal
HaskoningDHV

\section*{Appendix X - Design Options 2 and 3}

\section*{Transport for London}

\section*{London Borough of Hounslow \\ Syon Lane Development Sites, Homebase Site \\ Stage 1 Road Safety Audit \\ Ref: PB9411-RHD-XX-ZZ-RP-X-0002}

Prepared for:
St Edward Homes Ltd

By:
Royal HaskoningDHV
\begin{tabular}{ll} 
Prepared by: & Sam Taylor, Audit Team Leader \\
Checked by: & Vicky Seaton, Audit Team Member \\
Approved by: & Sam Taylor
\end{tabular}
\begin{tabular}{lll}
\hline Version & Status & Date \\
A & Audit report issued to Client & 03.08 .2020 \\
\hline
\end{tabular}

\subsection*{1.0 INTRODUCTION}

\subsection*{1.1 Commission}
1.1.1 This report results from a Stage 1 Road Safety Audit carried out on the proposed highway works for the redevelopment of the Homebase Site as part of the wider proposed Syon Lane Development Sites.
1.1.2 The Audit was undertaken by Royal HaskoningDHV in accordance with the Audit Brief issued by the Client Organisation on \(14^{\text {th }}\) July 2020. It took place at the via 'Teams' the \(21^{\text {st }}\) July 2020 and comprised an examination of the documents provided as listed in Appendix A.
1.1.3 Due to the ongoing COVID-19 pandemic, a site visit was not carried out in association with the scheme proposals. The Audit Team used made use of online mapping and Google Streetview images from 2019 in the determination of the scheme.

\subsection*{1.2 Terms of Reference}
1.2.1 The Terms of Reference of this Audit are as described in TfL Procedure SQA-0170 dated May 2014. The Audit Team has examined and reported only on the road safety implications of the scheme as presented and how it impacts on all road users and has not examined or verified the compliance of the designs to any other criteria. However, to clearly explain a safety problem or the recommendation to resolve a problem the Audit Team may, on occasion, have referred to a design standard without touching on technical audit. An absence of comment relating to specific road users / modes in Section 3 of this report does not imply that they have not been considered; instead the Audit Team feels they are not adversely affected by the proposed changes.
1.2.2 This Safety Audit is not intended to identify pre-existing hazards which remain unchanged due to the proposals; hence they will not be raised in Section 3 of this report as they fall outside the remit of Road Safety Audit in general as specified in the procedure SQA-0170 dated May 2014. Safety issues identified during the Audit and site visit that are considered to be outside the Terms of Reference, but which the Audit Team wishes to draw to the attention of the Client Organisation, are set out in Section 4 of this report.
1.2.3 Nothing in this Audit should be regarded as a direct instruction to include or remove a measure from within the scheme. Responsibility for designing the scheme lies with the Designer and as such the Audit Team accepts no design responsibility for any changes made to the scheme as a result of this Audit.
1.2.4 In accordance with TfL Procedure SQA-0170 dated May 2014, this Audit has a maximum shelf life of 2 years. If the scheme does not progress to the next stage in its development within this period, then the scheme should be re-audited.
1.2.5 Unless general to the scheme, all comments and recommendations are referenced to the detailed design drawings and the locations have been indicated on the plan located in Appendix B.
1.2.6 It is the responsibility of the Design Organisation to complete the Designer's response section of this Audit report. Where applicable and necessary it is the responsibility of the Client Organisation to complete the Client comment section of this Audit report. Signatures from both the Design Organisation and Client Organisation must be added within Section 5 of this Audit report. A copy of which must be returned to the Audit Team.

\subsection*{1.3 Main Parties to the Audit}

\subsection*{1.3.1 Client Organisation}

Client contact details: St Edward Homes Ltd

\subsection*{1.3.2 Design Organisation}

Design contact details: Andy Ward, Royal HaskoningDHV

\subsection*{1.3.3 Audit Team Approval}

The Audit Team specified in 1.3.4 below were given approval to undertake this Audit by Andrew Coventry of TfL Road Safety Audit on 18 \({ }^{\text {th }}\) May 2020.

\subsection*{1.3.4 Audit Team}

2 Audit Team Leader:
Audit Team Member:
Sam Taylor - Royal HaskoningDHV
Vicky Seaton - Royal HaskoningDHV

\subsection*{2.0.1 Other Specialist Advisors}

Specialist Advisor Details: No specialist advisors were consulted.

\subsection*{2.1 Purpose of the Scheme}
2.1.1 The purpose of the scheme is to provide access into a proposed residential-led mixed use development on the site of an existing Tesco foodstore and petrol filling station. The Tesco foodstore would be relocated to the site of an existing Homebase site off Syon Lane, although the petrol filling station. This Audit refers only to the proposed highway works associated with the relocation of the Tesco to the existing Homebase site.

\subsection*{2.2 Special Considerations}
2.2.1 The Audit Team was unable to visit the site due to restrictions resulting from the ongoing Covid-19 pandemic. The Audit Team has undertaken the Audit based on what could be observed from online mapping and Google Streetview images from 2019.

London Borough of Hounslow, Homebase Site
Stage 1 Road Safety Audit Report

\subsection*{2.0 ITEMS RAISED IN PREVIOUS ROAD SAFETY AUDITS}

The Audit Team is not aware of any other Audits having been carried out on the proposals.

\subsection*{3.0 ITEMS RAISED AT THIS STAGE 1 ROAD SAFETY AUDIT}

This section should be read in conjunction with Paragraphs 1.2.1, 1.2.2 and 1.2.3 of this report.

\subsection*{3.1 VISIBILITY}

\subsection*{3.1.1 PROBLEM 1}

Location: Proposed parking bay to the east of Northumberland Avenue.
Summary: The location of the proposed parking bay could obstruct forward visibility of oncoming vehicles potentially leading to collisions.

A proposed parking bay is shown to the east of Northumberland Avenue. Taller vehicles (such as a 'transit van') parked within the layby could obscure forward of vehicles approaching from the east. Reduced visibility could result in drivers pulling out of Northumberland Avenue into the path of an oncoming vehicle, leading to the potential for side impact collisions.

\section*{RECOMMENDATION}

Relocate or amend the design of the proposed parking bay to ensure that visibility for drivers exiting Northumberland Avenue is not compromised.
\begin{tabular}{l|l}
\hline Design Organisation Response & Accepted / Part Accepted/Rejected \\
\hline
\end{tabular}

\section*{Client Organisation Comments}

\subsection*{3.2 LAYOUT}

\subsection*{3.2.1 PROBLEM 2}

Location: Proposed new Tesco / residential access to Syon Lane.
Summary: Constrained highway geometry at the junction of Syon Lane and the proposed new access could lead to collisions between right turning vehicles.
Two lanes are proposed to allow vehicles to turn right from the new Tesco / residential access onto Syon Lane. The Audit Team are concerned that larger vehicles occupying the nearside lane may need to sweep out into the offside lane to avoid colliding with the central pedestrian crossing refuge. This could lead to side impact collisions between vehicles or with the vehicle colliding with the pedestrian crossing refuge.

\section*{RECOMMENDATION}

Swept path drawings should be prepared for a range of vehicle types demonstrating that two vehicles can simultaneously turn right from the proposed new access onto Syon Lane. If this manoeuvre is not possible the junction layout should be amended.
Design Organisation Response \(\quad\) Accepted / Part Accepted/Rejected

\section*{Client Organisation Comments}

\subsection*{3.2.2 PROBLEM 3}

Location: Southwestern corner of the junction of Syon Lane and the A4.
Summary: Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles.
The proposed amendments to the junction of Syon Lane and the A4 would reduce the nearside radius. Large vehicles wishing to turn left from Syon Lane on to the A4 may therefore either sweep out into the path of vehicles going ahead (leading to side impact collisions) or overrun the inside footway/ cycleway, potentially leading to collisions with pedestrians or cyclists.

\section*{RECOMMENDATION}

Swept path drawings should be prepared for a range of vehicle types demonstrating that vehicles can turn left from Syon Lane onto the A4 within their lane. If this manoeuvre is not possible the junction layout should be amended.

\section*{Design Organisation Response}

Accepted / Part Accepted / Rejected

\section*{Client Organisation Comments}

\subsection*{3.2.3 PROBLEM 4}

Location: Right turn from the A4 to Syon Lane.
Summary: Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles.
Two lanes are proposed to allow vehicles to turn right from the A4 onto Syon Lane. The proposed markings appear to guide vehicles from the nearside lane (on the A4) to the offside lane on Syon Lane. This arrangement could lead to side impact collisions between turning vehicles, or vehicles colliding with the central refuge island.


Extract demonstrating potential point of conflict between right turning vehicles.

\section*{RECOMMENDATION}

Lane markings should be provided (similar to those currently provided for vehicles right turning) to guide vehicles.

\section*{Design Organisation Response \(\quad\) Accepted / Part Accepted / Rejected}

Client Organisation Comments

\subsection*{3.2.4 PROBLEM 5}

\section*{Location: Right turn from the A4 to Syon Lane.}

Summary: Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles.
Two lanes are proposed to allow vehicles to turn right from the A4 onto Syon Lane. The geometry of Syon Lane close to the junction with the A4 is shown at 5.3 m . The Audit Team are concerned that the proposed geometry does not provide sufficient space for two vehicles (especially larger vehicles) to right turn simultaneously. Constrained width at the junction could lead to side impact collisions between turning vehicles or vehicles colliding with the central refuge island or nearside kerb line.

\section*{RECOMMENDATION}

Swept path drawings should be prepared for a range of vehicle types demonstrating that two vehicles can simultaneously turn right from the A4 on to Syon Lane. If this manoeuvre is not possible the junction layout should be amended.
Design Organisation Response \(\quad\) Accepted / Part Accepted/Rejected

\section*{Client Organisation Comments}

\subsection*{3.3 TRAFFIC SIGNALS}

\subsection*{3.3.1 PROBLEM 6}

Location: Proposed new Tesco / residential access with Syon Gateway.
Summary: Insufficient forward visibility of traffic signal heads could lead to sudden breaking resulting in rear end shunt type collisions.
No stop line or signal heads are shown on the proposed layout (drawing PB9144-RHD-GE-SW-DR-R-0096). The Audit Team are concerned that the sharp left turn at the site access may compromise forward visibility of the signal head. Insufficient forward visibility of the primary signal heads could lead to late braking and rear end shunt type collisions.

\section*{RECOMMENDATION}

The primary traffic signal heads should be located to ensure sufficient forward visibility.
Design Organisation Response \(\quad\) Accepted / Part Accepted/Rejected

\section*{Client Organisation Comments}

\subsection*{3.4 PEDESTRAINS AND CYCLISTS}

\subsection*{3.4.1 PROBLEM 7}

Location: Northern side of Syon Lane between the A4 and Syon Gateway.
Summary: Failure to provide a safe transition from off-road to on road cycling could lead to collisions with passing vehicles.
The proposals would create a new shared use footway/ cycleway along the northern side of Syon Lane, from its junction with the A4 continuing east towards the junction Syon Gateway. Drawing PB9144-RHD-GE-SW-DR-R-0096 S3 P16 notes that cyclists are 'required to use Syon Lane carriageway south of Syon Gate Way'. No details have been provided at this stage however, of how cyclists wishing to continue east along Syon Lane would transition from off-road to on road cycling. Failure to provide a safe transition from the off-road cycleway back onto the road could lead to cyclists re-joining into the path of passing vehicles, leading to side impact type collisions.

\section*{RECOMMENDATION}

Provide a suitable transition to allow cyclists to safely transition from off-road to onroad cycling.
Design Organisation Response \(\quad\) Accepted / Part Accepted/Rejected

\section*{Client Organisation Comments}

\subsection*{3.4.2 PROBLEM 8}

Location: Proposed bus stop along the southern side of the A4.
Summary: Bus passengers could step off the bus into the path of cyclists.
The proposals show that the proposed cycle lane would terminate either side of the proposed bus stop, cyclists are however likely to continue straight through. Passengers getting off the bus may not be aware of the potential for cyclists to be on the footway which could lead to collisions.

\section*{RECOMMENDATION}

In the vicinity of the bus stop, relocate the footway to the front, nearest the carriageway, and cycleway to the back to create a 'floating' bus stop arrangement.
Design Organisation Response \(\quad\) Accepted / Part Accepted / Rejected

\section*{Client Organisation Comments}

\subsection*{3.4.3 PROBLEM 9}

Location: Proposed cycleway along the southern side of the A4
Summary: Failure to provide a safe transition from off-road to on road cycling could lead to collisions with passing vehicles.
The proposals would extend the existing cycleway along the southern side of the A4 to the junction with Syon Lane. No details have been provided of how cyclists wishing to continue west along the A4 (past Syon Lane) transition safely on to and then off the A4 back on the cycleway to the west of Syon Lane.

Failure to provide a safe transition from the off-road cycleway back onto the road and vice versa could lead to cyclists re-joining into the path of passing vehicles leading to side impact type collisions or cyclists falling whilst trying to bump up/ down a kerb.


Extract of drawing PB9144-RHD-GE-SW-DR-R-0096 S3 P16 showing cycle movement across Syon Lane/ A4 junction

\section*{RECOMMENDATION}

Provide a transition to allow cyclists to safely transition from off-road to on-road cycling. In addition, provide an advanced cycle stop line to allow cyclists to re-join the road ahead to traffic.

\section*{Design Organisation Response \(\quad\) Accepted / Part Accepted / Rejected}

Client Organisation Comments

London Borough of Hounslow, Homebase Site
Stage 1 Road Safety Audit Report

\footnotetext{
End of list of problems identified and recommendations offered in this Stage 1 Road Safety Audit
}

\subsection*{4.0 ISSUES IDENTIFIED DURING THE STAGE 1 ROAD SAFETY AUDIT THAT ARE OUTSIDE THE TERMS OF REFERENCE}

The Audit Team has no issues to raise within this section.

\subsection*{5.0 SIGNATURES AND SIGN-OFF}

\subsection*{5.1 AUDIT TEAM STATEMENT}

We certify that we have examined the drawings and documents listed in Appendix A. to this Safety Audit report. The Road Safety Audit has been carried out in accordance with TfL Procedure SQA-0170 dated May 2014, with the sole purpose of identifying any feature that could be removed or modified in order to improve the safety of the measures. The problems identified have been noted in this report together with associated suggestions for safety improvements that we recommend should be studied for implementation.
No one on the Audit Team has been involved with the design of the measures.

\section*{AUDIT TEAM LEADER:}

Name:

Position: Associate Transport Planner

Signed:


Organisation: Royal HaskoningDHV
Address: Royal HaskoningDHV, Rightwell House
Bretton, Peterborough, PE3 8DW
Contact: sam.taylor@rhdhv.com

\section*{AUDIT TEAM MEMBER:}
\begin{tabular}{lll} 
Name: & \begin{tabular}{l} 
Vicky Seaton \\
BSc (Hons), MCIHT, MSoRSA
\end{tabular} & Signed: \\
Position: & Principal Transport Planner \\
Organisation: & Royal HaskoningDHV \\
Address: & \begin{tabular}{l} 
Royal HaskoningDHV, \(5^{\text {th }}\) Floor Newater House, 11 Newhall Street, \\
\\
Birmingham, B3 3NY
\end{tabular} \\
Contact: & \begin{tabular}{l} 
vicky.seaton@rhdhv.com
\end{tabular} &
\end{tabular}

\subsection*{5.2 DESIGN TEAM STATEMENT}

In accordance with SQA-0170 dated May 2014, I certify that I have reviewed the items raised in this Stage 1 Safety Audit report. I have given due consideration to each issue raised and have stated my proposed course of action for each in this report. I seek the Client Organisations endorsement of my proposals.

\section*{Name:}

Position:
Organisation:

\section*{Signed:}

Dated:

\subsection*{5.3 CLIENT ORGANISATION STATEMENT}

I accept these proposals by the Design Organisation.
Name:
Position:
Organisation:
Signed: Dated:

\subsection*{5.4 SECONDARY CLIENT ORGANISATION STATEMENT (where appropriate)}

I accept these proposals by the Design Organisation.

\section*{Name:}

Position:
Organisation:
Signed:
Dated:

\title{
APPENDIX A
}

\section*{Documents Forming the Audit Brief}

\section*{DRAWING NUMBER}

PB9144-RHD-GE-SW-DR-R-0096

\section*{DOCUMENTS}Safety Audit Brief
Site Location PlanTraffic signal details
TfL signal safety checklist
Departures from standard
Previous Road Safety Audits
Previous Designer Responses
Collision data
Collision plot
Traffic flow / modelling dataPedestrian flow / modelling dataSpeed survey data
Other documents

\section*{DRAWING TITLE}

Proposed Highway Arrangements - Underpass
Retained

DETAILS (where appropriate)
Stage 1 Road Safety Audit Briefing Note Within the Stage 1 Road Safety Audit Briefing Note

Within the Stage 1 Road Safety Audit Briefing Note
Within the Stage 1 Road Safety Audit Briefing Note
Within the Stage 1 Road Safety Audit Briefing Note Within the Stage 1 Road Safety Audit Briefing Note

\section*{APPENDIX B}

\section*{Problem Locations}


Royal
HaskoningDHV

\section*{Appendix Y - VISSIM Journey Time Results}

\section*{Royal}

HaskoningDHV
Enhancing Society Together

Road Safety Audit Decision Log
Address: Homebase site, Hounslow, TW7 5QE
Reference: PB9144-RHD-XX-ZZ-RP-R-0030
\begin{tabular}{|c|c|c|c|c|}
\hline RSA problem & RSA recommendation & Design organisation response & Overseeing Organisation response & Agreed RSA action \\
\hline \begin{tabular}{l}
3.1 - Problem 1 - Proposed parking bay to the east of Northumberland Avenue. \\
Summary - The location of the proposed parking bay could obstruct forward visibility of oncoming vehicles potentially leading to collisions. A proposed parking bay is shown to the east of Northumberland Avenue. Taller vehicles (such as a 'transit van') parked within the layby could obscure forward of vehicles approaching from the east. Reduced visibility could result in drivers pulling out of Northumberland Avenue into the path of an oncoming vehicle, leading to the potential for side impact collisions.
\end{tabular} & Relocate or amend the design of the proposed parking bay to ensure that visibility for drivers exiting Northumberland Avenue is not compromised. & \begin{tabular}{l}
Disagree - It is considered that parking provision in visibility splay is unlikely to cause any issues in practice. \\
Paragraph 7.8.5 of Manual for Streets, states that "Parking in visibility splays in built-up areas is quite common, yet it does not appear to create significant problems in practice. Ideally, defined parking bays should be provided outside the visibility splay. However, in some circumstances, where speeds are low, some encroachment may be acceptable." \\
\(85^{\text {th }}\) percentile speeds recorded further to the south (northbound movement) equates to 28.5 mph . Average speed 24 mph . Slower speeds expected at the junction due to its proximity to the A4. \\
Visibility splays of 2.4 m by 37.5 m based on the 85th percentile speed have been identified for Northumberland Avenue.
\end{tabular} & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline RSA problem & RSA recommendation & Design organisation response & Overseeing Organisation response & Agreed RSA action \\
\hline & & If necessary, the parking layby can be widened to 3 m to ensure sufficient visibility is achievable when vehicles are parked at kerbside. & & \\
\hline \begin{tabular}{l}
3.2.1 - Problem 2 - Proposed new Tesco / residential access to Syon Lane. \\
Summary: Constrained highway geometry at the junction of Syon Lane and the proposed new access could lead to collisions between right turning vehicles. Two lanes are proposed to allow vehicles to turn right from the new Tesco / residential access onto Syon Lane. The Audit Team are concerned that larger vehicles occupying the nearside lane may need to sweep out into the offside lane to avoid colliding with the central pedestrian crossing refuge. This could lead to side impact collisions between vehicles or with the vehicle colliding with the pedestrian crossing refuge.
\end{tabular} & Swept path drawings should be prepared for a range of vehicle types demonstrating that two vehicles can simultaneously turn right from the proposed new access onto Syon Lane. If this manoeuvre is not possible the junction layout should be amended. & \begin{tabular}{l}
Disagree - It should be noted that the proposed Tesco access is a customer vehicle and residential visitor vehicle access only. Vehicles would be limited in size to no larger than a transit van. Larger delivery and servicing vehicles would access the site from Syon Gate Way only. \\
Vehicle tracking for the junction is provided in the TA. The junction can adequately accommodate all movements with a large car.
\end{tabular} & & \\
\hline \begin{tabular}{l}
3.2.2 - Problem 3 - Southwestern corner of the junction of Syon Lane and the A4. \\
Summary: Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles. The proposed amendments to the junction of Syon Lane and the A4 would reduce the nearside radius. Large vehicles wishing to turn left from Syon Lane on to the A4 may therefore either sweep out into the path of vehicles going ahead (leading to side impact collisions) or overrun the
\end{tabular} & Swept path drawings should be prepared for a range of vehicle types demonstrating that vehicles can turn left from Syon Lane onto the A4 within their lane. If this manoeuvre is not possible the junction layout should be amended. & \begin{tabular}{l}
Agreed - Swept path analysis can show that it possible for a 10 m rigid vehicle to turn left onto the A4, while another vehicle routes north along Syon Lane at the junction. There is no conflict between vehicles undertaking these respective movements at this location. \\
It is worth noting that the junction radius has not changed in relation
\end{tabular} & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline RSA problem & RSA recommendation & Design organisation response & Overseeing Organisation response & Agreed RSA action \\
\hline inside footway/ cycleway, potentially leading to collisions with pedestrians or cyclists. & & to the existing junction layout arrangement. & & \\
\hline \begin{tabular}{l}
3.2.3 - Problem 4 - Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles. \\
Two lanes are proposed to allow vehicles to turn right from the A4 onto Syon Lane. The proposed markings appear to guide vehicles from the nearside lane (on the A4) to the offside lane on Syon Lane. This arrangement could lead to side impact collisions between turning vehicles, or vehicles colliding with the central refuge island.
\end{tabular} & Lane markings should be provided (similar to those currently provided for vehicles right turning) to guide vehicles. & Agreed - Lane marking and geometry of proposed markings at the centre of junction can be provided. These measures can be included in the next stage of junction design. & & \\
\hline \begin{tabular}{l}
3.2.4 - Problem 5 - Right turn from the A4 to Syon Lane. \\
Summary: Constrained highway geometry at the junction of Syon Lane and the A4 could lead to collisions between right turning vehicles. \\
Two lanes are proposed to allow vehicles to turn right from the A4 onto Syon Lane. The geometry of Syon Lane close to the junction with the A4 is shown at 5.3 m . The Audit Team are concerned that the proposed geometry does not provide sufficient space for two vehicles (especially larger vehicles) to right turn simultaneously. Constrained width at the junction could lead to side impact collisions between turning vehicles or vehicles colliding with the central refuge island or nearside kerb line.
\end{tabular} & Swept path drawings should be prepared for a range of vehicle types demonstrating that two vehicles can simultaneously turn right from the A4 on to Syon Lane. If this manoeuvre is not possible the junction layout should be amended. & Agreed - At 10 m rigid vehicle and 7.5t box van are able to both turn right from A4 west onto Syon Lane south without conflict with the central refuge, nearside kerb line. & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline RSA problem & RSA recommendation & Design organisation response & Overseeing Organisation response & Agreed RSA action \\
\hline \begin{tabular}{l}
3.3.1 - Problem 6 Proposed new Tesco / \\
residential access with Syon Gateway. \\
Summary: Insufficient forward visibility of traffic signal heads could lead to sudden breaking resulting in rear end shunt type collisions. No stop line or signal heads are shown on the proposed layout (drawing PB9144-RHDGE-SW-DR-R0096). The Audit Team are concerned that the sharp left turn at the site access may compromise forward visibility of the signal head. Insufficient forward visibility of the primary signal heads could lead to late braking and rear end shunt type collisions.
\end{tabular} & The primary traffic signal heads should be located to ensure sufficient forward visibility. & \begin{tabular}{l}
Agreed - Proposed signal head location located at the central pedestrian island, positioned to allow approaching vehicle drivers driving down the ramp to see the signal head. \\
The required level of inter-visibility between the stop line at the site access and the stop lines on Syon Lane East and Syon Lane West can be achieved at the junction.
\end{tabular} & & \\
\hline \begin{tabular}{l}
3.4.1 - Problem 7 - Northern side of Syon Lane between the A4 and Syon Gateway. \\
Summary: Failure to provide a safe transition from off-road to on road cycling could lead to collisions with passing vehicles. The proposals would create a new shared use footway/ cycleway along the northern side of Syon Lane, from its junction with the A4 continuing east towards the junction Syon Gateway. Drawing PB9144-RHD-GE-SW-DR-R-0096 S3 P16 notes that cyclists are 'required to use Syon Lane carriageway south of Syon Gate Way'. \\
No details have been provided at this stage however, of how cyclists wishing to continue east along Syon Lane would transition from off-road to on road cycling. Failure to provide a safe transition from the off-road cycleway back onto the road could lead to cyclists re-joining into the
\end{tabular} & Provide a suitable transition to allow cyclists to safely transition from off-road to on-road cycling. & \begin{tabular}{l}
Agreed - It is proposed that cyclists would use Syon Gate Way as a transition zone from the proposed shared surface, flanking the Homebase site along Syon Lane, in accessing onto the carriageway for on-road cycling. \\
The entrance to Syon Gate Way would be treated to form a raised table with the shared surface pedestrian footway. The proximity to the pedestrian crossing would also offer an opportunity for cyclists to enter the carriageway whilst vehicles are stationary.
\end{tabular} & & \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|}
\hline RSA problem & RSA recommendation & Design organisation response & Overseeing Organisation response & Agreed RSA action \\
\hline path of passing vehicles, leading to side impact type collisions. & & & & \\
\hline \begin{tabular}{l}
3.4.2 - Problem 8 - Location: Proposed bus stop along the southern side of the A4. \\
Summary: Bus passengers could step off the bus into the path of cyclists. The proposals show that the proposed cycle lane would terminate either side of the proposed bus stop, cyclists are however likely to continue straight through. Passengers getting off the bus may not be aware of the potential for cyclists to be on the footway which could lead to collisions.
\end{tabular} & In the vicinity of the bus stop, relocate the footway to the front, nearest the carriageway, and cycleway to the back to create a 'floating' bus stop arrangement. & The bus stop along the southern flank of the A4 is to be provided in line with a design which is consistent with bus stops along the A4. It is anticipated that a bus shelter would be provided, and consequently it is unlikely that passengers exiting the bus would conflict with the desire line of cyclists at this location. The bus stop layout and shelter would follow the design of existing stops further along the A4 & & \\
\hline \begin{tabular}{l}
3.4.3 - Problem 9 - Location: Proposed \\
cycleway along the southern side of the A4 \\
Summary: Failure to provide a safe transition from off-road to on road cycling could lead to collisions with passing vehicles. The proposals would extend the existing cycleway along the southern side of the A4 to the junction with Syon Lane. No details have been provided of how cyclists wishing to continue west along the A4 (past Syon Lane) transition safely on to and then off the A4 back on the cycleway to the west of Syon Lane. Failure to provide a safe transition from the off-road cycleway back onto the road and vice versa could lead to cyclists re-joining into the path of passing vehicles leading to side impact
\end{tabular} & Provide a transition to allow cyclists to safely transition from off-road to on-road cycling. In addition, provide an advanced cycle stop line to allow cyclists to re-join the road ahead to traffic. & Agreed - The removal of the bus layby on the A4 (Westbound) in the immediate vicinity of the sit frontage would permit the off-road cycleway to be extended, before tying back in to the carriageway. A transition section with dropped kerbs would be provided. The provision of ASL would be investigated at the detailed design stage to provide cyclists with greater segregation from vehicles on the A4 carriageway. & & \\
\hline
\end{tabular}

Royal HaskoningDHV
\begin{tabular}{|l|l|l|l|l|l|l|l|l|}
\hline RSA problem & RSA recommendation & Design organisation response & \begin{tabular}{l} 
Overseeing Organisation \\
response
\end{tabular} & Agreed RSA action \\
\hline \begin{tabular}{l} 
type collisions or cyclists falling whilst trying to \\
bump up/ down a kerb.
\end{tabular} & & & \\
\hline
\end{tabular}

I certify that I have reviewed the items raised in the Stage 1 Road Safety Audit and given due consideration to each issue raised. I have stated my proposed course of action in this report and seek the Client Organisations endorsement of my proposals.

\section*{Name: Andrew Ward}

Position: Transport Planning Director
Organisation: Royal HaskoningDHV

Signed:
Dated: \(10^{\text {th }}\) September 2020

Royal
HaskoningDHV



Royal
HaskoningDHV

Syon Lane - AM Peak Journey Times
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Travel Time section & Section reference & & Base VISSIM & \begin{tabular}{l}
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\end{tabular} & Proposed Option 3 VISSIM & \begin{tabular}{l}
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\end{tabular} \\
\hline A to D & Syon Lane - North to A4 West & SB & 143 & 236 & 262 & 26 & 11\% & 262 & 26 & 11\% & 232 & -4 & -1\% \\
\hline D to A & A4 West to Syon Lane - North & NB & 85 & 93 & 101 & 8 & 9\% & 101 & 8 & 9\% & 277 & 184 & 198\% \\
\hline A to F & Syon Lane - North to A4 East & SB & 144 & 203 & 161 & -42 & -20\% & 163 & -40 & -20\% & 169 & -34 & -17\% \\
\hline F to A & A4 East to Syon Lane - North & NB & 130 & 273 & 158 & -115 & -42\% & 159 & -113 & -42\% & 121 & -152 & -56\% \\
\hline A to I & Syon Lane - North to Syon Lane - East & SB & 169 & 240 & 259 & 19 & 8\% & 259 & 19 & 8\% & 238 & -2 & -1\% \\
\hline Ito A & Syon Lane - East to Syon Lane - North & NB & 129 & 154 & 149 & -5 & -3\% & 151 & -3 & -2\% & 153 & -1 & 0\% \\
\hline D to F & A4 West to A4 East & EB & 77 & 83 & 95 & 12 & 15\% & 95 & 12 & 15\% & 99 & 16 & 20\% \\
\hline F to D & A4 East to A4 West & WB & 56 & 57 & 67 & 10 & 18\% & 66 & 9 & 16\% & 73 & 16 & 29\% \\
\hline D to I & A4 West to Syon Lane - East & SB & 172 & 295 & 156 & -139 & -47\% & 157 & -138 & -47\% & 170 & -125 & -42\% \\
\hline 1 to D & Syon Lane - East to A4 West & NB & 103 & 119 & 116 & -2 & -2\% & 117 & -1 & -1\% & 123 & 4 & 4\% \\
\hline 1 to F & Syon Lane - East to A4 East & NB & 148 & 152 & 173 & 21 & 14\% & 174 & 22 & 14\% & 177 & 25 & 17\% \\
\hline F to 1 & A4 East to Syon Lane - East & SB & 89 & 82 & 166 & 84 & 102\% & 171 & 88 & 107\% & 186 & 104 & 126\% \\
\hline
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\hline Travel Time section & Section reference & & \[
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\end{tabular} \\
\hline \multirow[b]{2}{*}{H28} & Syon Lane Station to Tesco Osterley & NB & 122 & 144 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline & Tesco Osterley to Syon Lane Station & SB & 195 & 342 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline \multirow[b]{2}{*}{H91} & Wood Lane to West Cross Way & EB & 315 & 415 & 394 & -21 & -5\% & 419 & 5 & 1\% & 1275 & 860 & 207\% \\
\hline & West Cross Way to Wood Lane & WB & 207 & 209 & 227 & 19 & 9\% & 224 & 15 & 7\% & 229 & 20 & 10\% \\
\hline \multirow[t]{2}{*}{E1} & West Cross Way to Syon Lane & WB & N/A & 401 & 282 & -119 & -30\% & 288 & -114 & -28\% & 217 & -184 & -46\% \\
\hline & Syon Lane to West Cross Way & EB & N/A & 392 & 246 & -146 & -37\% & 245 & -147 & -38\% & 267 & -125 & -32\% \\
\hline
\end{tabular}

Syon Lane - PM Peak Journey Times
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Travel Time section & Section reference & & Base VISSIM & \begin{tabular}{l}
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\end{tabular} \\
\hline A to D & Syon Lane - North to A4 West & SB & 236 & 242 & 117 & -125 & -52\% & 117 & -125 & -52\% & 114 & -128 & -53\% \\
\hline D to A & A4 West to Syon Lane - North & NB & 80 & 83 & 76 & -7 & -8\% & 76 & -7 & -8\% & 187 & 104 & 125\% \\
\hline \(A\) to \(F\) & Syon Lane - North to A4 East & SB & 130 & 132 & 108 & -24 & -18\% & 108 & -23 & -18\% & 118 & -14 & -10\% \\
\hline F to A & A4 East to Syon Lane - North & NB & 132 & 129 & 136 & 7 & 5\% & 137 & 8 & 6\% & 117 & -12 & -10\% \\
\hline A to I & Syon Lane - North to Syon Lane - East & SB & 147 & 148 & 116 & -32 & -21\% & 117 & -30 & -21\% & 127 & -21 & -14\% \\
\hline I to A & Syon Lane - East to Syon Lane - North & NB & 125 & 129 & 142 & 13 & 10\% & 141 & 12 & 9\% & 146 & 17 & 14\% \\
\hline D to F & A4 West to A4 East & EB & 61 & 61 & 60 & -2 & -2\% & 60 & -1 & -2\% & 95 & 33 & 54\% \\
\hline F to D & A4 East to A4 West & WB & 66 & 65 & 83 & 17 & 27\% & 81 & 16 & 25\% & 116 & 50 & 77\% \\
\hline D to I & A4 West to Syon Lane - East & SB & 125 & 243 & 267 & 24 & 10\% & 262 & 19 & 8\% & 254 & 11 & 4\% \\
\hline I to D & Syon Lane - East to A4 West & NB & 82 & 86 & 108 & 22 & 26\% & 108 & 22 & 25\% & 119 & 32 & 38\% \\
\hline I to F & Syon Lane - East to A4 East & NB & 107 & 109 & 126 & 17 & 16\% & 124 & 16 & 14\% & 137 & 29 & 26\% \\
\hline F to I & A4 East to Syon Lane - East & SB & 95 & 92 & 135 & 43 & 47\% & 135 & 43 & 47\% & 209 & 118 & 128\% \\
\hline
\end{tabular}
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Travel Time section & Section reference & & \[
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\end{tabular} \\
\hline \multirow[b]{2}{*}{H28} & Syon Lane Station to Tesco Osterley & NB & 136 & 132 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline & Tesco Osterley to Syon Lane Station & SB & 187 & 170 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline \multirow[b]{2}{*}{H91} & Wood Lane to West Cross Way & EB & 278 & 283 & 279 & -4 & -1\% & 278 & -5 & -2\% & 351 & 68 & 24\% \\
\hline & West Cross Way to Wood Lane & WB & 274 & 271 & 270 & -1 & 0\% & 270 & -1 & 0\% & 489 & 218 & 80\% \\
\hline \multirow[b]{2}{*}{E1} & West Cross Way to Syon Lane & WB & N/A & 195 & 262 & 66 & 34\% & 265 & 70 & 36\% & 422 & 227 & 116\% \\
\hline & Syon Lane to West Cross Way & EB & N/A & 260 & 209 & -52 & -20\% & 212 & -49 & -19\% & 216 & -45 & -17\% \\
\hline
\end{tabular}

Syon Lane - Saturday Peak Journey Times
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline Travel Time section & Section reference & & Base VISSIM & Future Base VISSIM & Proposed Option 1 VISSIM & \begin{tabular}{l}
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\end{tabular} \\
\hline A to D & Syon Lane - North to A4 West & SB & 235 & 281 & 156 & -125 & -45\% & 159 & -122 & -43\% & 122 & -159 & -57\% \\
\hline D to A & A4 West to Syon Lane - North & NB & 77 & 86 & 81 & -5 & -6\% & 80 & -6 & -6\% & 210 & 125 & 145\% \\
\hline A to F & Syon Lane - North to A4 East & SB & 161 & 131 & 118 & -13 & -10\% & 120 & -12 & -9\% & 90 & -42 & -32\% \\
\hline \(F\) to A & A4 East to Syon Lane - North & NB & 105 & 112 & 108 & -5 & -4\% & 108 & -5 & -4\% & 117 & 4 & 4\% \\
\hline A to I & Syon Lane - North to Syon Lane - East & SB & 205 & 152 & 149 & -3 & -2\% & 152 & 0 & 0\% & 128 & -24 & -16\% \\
\hline I to A & Syon Lane - East to Syon Lane - North & NB & 110 & 114 & 127 & 13 & 11\% & 129 & 15 & 13\% & 126 & 12 & 10\% \\
\hline D to F & A4 West to A4 East & EB & 61 & 67 & 63 & -4 & -6\% & 63 & -4 & -6\% & 92 & 25 & 38\% \\
\hline F to D & A4 East to A4 West & WB & 57 & 66 & 64 & -2 & -3\% & 64 & -2 & -3\% & 118 & 51 & 77\% \\
\hline D to I & A4 West to Syon Lane - East & SB & 112 & 112 & 130 & 17 & 15\% & 130 & 17 & 15\% & 253 & 140 & 125\% \\
\hline I to D & Syon Lane - East to A4 West & NB & 77 & 78 & 103 & 25 & 32\% & 103 & 25 & 32\% & 97 & 19 & 24\% \\
\hline I to F & Syon Lane - East to A4 East & NB & 113 & 103 & 123 & 20 & 20\% & 124 & 21 & 20\% & 146 & 43 & 41\% \\
\hline F to I & A4 East to Syon Lane - East & SB & 80 & 90 & 141 & 51 & 56\% & 141 & 51 & 57\% & 309 & 219 & 244\% \\
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\hline Travel Time section & Section reference & & Base VISSIM & \begin{tabular}{l}
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\hline \multirow[b]{2}{*}{H28} & Syon Lane Station to Tesco Osterley & NB & 110 & 112 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline & Tesco Osterley to Syon Lane Station & SB & 244 & 183 & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A & N/A \\
\hline \multirow[b]{2}{*}{H91} & Wood Lane to West Cross Way & EB & 242 & 251 & 244 & -7 & -3\% & 244 & -6 & -3\% & 310 & 59 & 24\% \\
\hline & West Cross Way to Wood Lane & WB & 229 & 243 & 233 & -11 & -4\% & 233 & -11 & -4\% & 722 & 478 & 197\% \\
\hline \multirow[b]{2}{*}{E1} & West Cross Way to Syon Lane & WB & N/A & 177 & 229 & 51 & 29\% & 231 & 54 & 30\% & 627 & 450 & 253\% \\
\hline & Syon Lane to West Cross Way & EB & N/A & 221 & 187 & -34 & -15\% & 186 & -36 & -16\% & 160 & -61 & -28\% \\
\hline
\end{tabular}```

