

Appendix 3

Policy BE1: Built Environment

The Council will require all new development to improve and maintain the quality of the built environment in order to create successful and sustainable neighbourhoods, where people enjoy living and working and that serve the long-term needs of all residents. All new developments should:

1. Achieve a high quality of design in all new buildings, alterations, extensions and the public realm which enhances the local distinctiveness of the area, contributes to community cohesion and a sense of place;
2. Be designed to be appropriate to the identity and context of Hillingdon's buildings, townscapes, landscapes and views, and make a positive contribution to the local area in terms of layout, form, scale and materials and seek to protect the amenity of surrounding land and buildings, particularly residential properties;
3. Be designed to include "Lifetime Homes" principles so that they can be readily adapted to meet the needs of those with disabilities and the elderly, 10% of these should be wheelchair accessible or easily adaptable to wheelchair accessibility encouraging places of work and leisure, streets, neighbourhoods, parks and open spaces to be designed to meet the needs of the community at all stages of people's lives;
4. In the case of 10 dwellings or over, achieve a satisfactory assessment rating in terms of the latest Building for Life standards (as amended or replaced from time to time);
5. Improve areas of poorer environmental quality, including within the areas of relative disadvantage of Hayes, Yiewsley and West Drayton. All regeneration schemes should ensure that they are appropriate to their historic context, make use of heritage assets and reinforce their significance;
6. Incorporate a clear network of routes that are easy to understand, inclusive, safe, secure and connect positively with interchanges, public transport, community facilities and services;
7. Improve the quality of the public realm and provide for public and private spaces that are attractive, safe, functional, diverse, sustainable, accessible to all, respect the local character and landscape, integrate with the development, enhance and protect biodiversity through the inclusion of living walls, roofs and areas for wildlife, encourage physical activity and where appropriate introduce public art;
8. Create safe and secure environments that reduce crime and fear of crime, anti-social behaviour and risks from fire and arson having regard to Secure by Design standards and address resilience to terrorism in major development proposals.
9. Not result in the inappropriate development of gardens and green spaces that erode the character and biodiversity of suburban areas and increase the risk of flooding through the loss of permeable areas;

10. Maximise the opportunities for all new homes to contribute to tackling and adapting to climate change and reducing emissions of local air quality pollutants. The Council will require all new development to achieve reductions in carbon dioxide emission in line with the London Plan targets through energy efficient design and effective use of low and zero carbon technologies. Where the required reduction from on-site renewable energy is not feasible within major developments, contributions off-site will be sought. The Council will seek to merge a suite of sustainable design goals, such as the use of SUDS, water efficiency, lifetime homes, and energy efficiency into a requirement measured against the Code for Sustainable Homes and BREEAM. These will be set out within the Hillingdon Local Plan: Part 2- Development Management Policies LDD. All developments should be designed to make the most efficient use of natural resources whilst safeguarding historic assets, their settings and local amenity and include sustainable design and construction techniques to increase the re-use and recycling of construction, demolition and excavation waste and reduce the amount disposed to landfill;
11. In the case of tall buildings, not adversely affect their surroundings including the local character, cause harm to the significance of heritage assets or impact on important views. Appropriate locations for tall buildings will be defined on a Character Study and may include parts of Uxbridge and Hayes subject to considering the Obstacle Limitation Surfaces for Heathrow Airport. Outside of Uxbridge and Hayes town centres, tall buildings will not be supported. The height of all buildings should be based upon an understanding of the local character and be appropriate to the positive qualities of the surrounding townscape.

Support will be given for proposals that are consistent with local strategies, guidelines, supplementary planning documents and Hillingdon Local Plan: Part 2- Development Management Policies.

Implementation of Policy BE1- how we will achieve this

This policy will be operated through the Council's and Hillingdon Partners development programmes in relation to both buildings and the public realm. The Council will:

- Identify in the Hillingdon Local Plan: Part 2- Site Specific Allocations LDD, Local Plan sites where redevelopment would provide an opportunity to improve the local environment;
- Adopt the Draft Public Realm SPD to ensure that all works within the public realm contribute to maintaining and improving the quality of the local environment.
- Produce a borough-wide Character Study to inform the parameters for appropriate residential and non-residential densities including defining inappropriate locations for tall buildings.

In relation to new development, developers will have to justify their design decisions within a Design and Access Statement for each application. For residential schemes of over 10 units, developers will need to demonstrate how the 'Building for Life' criteria are met and how the proposal will meet a satisfactory standard. There will be more detailed policies within the Development Management Policies Local Development Document and Supplementary Planning Documents on specific design and public realm issues.

This policy will be implemented, in conjunction with the other policies in the plan, through the determination of planning applications and the preparation of the Development Management Policies and Site Specific Allocations LDDs and Supplementary Planning Documents which could include Design Briefs.

Monitoring of Policy BE1- how we will measure success

1. Public satisfaction with visual character of the built environment (Local);
2. Amenity space standards (Local);
3. Public art provision (Local): and
4. The Annual Monitoring Report (Core Indicator H6 on Housing Quality) will monitor the number and proportion of total new build completions on housing sites reaching a satisfactory rating against the Building for Life Criteria.
5. All new housing proposals are required to meet Lifetime Home Standards and 10% of all housing units on major planning applications (10 units or more) are also required to be wheelchair accessible and these will be monitored under BVPI 156.

Housing Growth

6.13 The following policies have been developed to deliver the key objectives for housing and to address the main challenges outlined in Table 3.1 of this Hillingdon Local Plan: Part 1- Strategic Policies.

Policy H1: Housing Growth

The Council will meet and exceed its minimum strategic dwelling requirement, where this can be achieved, in accordance with other Local Plan policies.

The borough's current target is to provide an additional 4,250 dwellings, annualised as 425 dwellings per year, for the ten year period between 2011 and 2021.

Rolled forward to 2026, this target equates to a minimum provision of 6,375 dwellings over the period of the Hillingdon Local Plan: Part 1- Strategic Policies. Sites that will contribute to the achievement of this target will be identified in the Hillingdon Local Plan: Part 2- Site Specific Allocations Local Development Document (LDD).

6.14 The following documents are relevant to housing growth in Hillingdon and are examined in this chapter:

- The London Plan (2011) which sets Hillingdon's current annual monitoring target;
- The Housing Trajectory.

6.15 The London Plan (2011) sets an annual monitoring target for Hillingdon to provide 425 new homes per annum. In accordance with Government advice, this target has been rolled forward over the period of the Hillingdon Local Plan: Part 1- Strategic Policies. Hillingdon's annual monitoring target will be met through the identification of sustainable sites for new housing development in the Hillingdon Local Plan: Part 2- Site Specific Allocations LDD.

6.16 The Council's Housing Trajectory is contained in the Annual Monitoring Report and at Appendix 3 of this document. Table 6.2 summarises the number of completions expected to come forward in the next five year period. The infrastructure required to deliver expected housing growth is outlined in the Strategic Infrastructure Plan and the Council recognises the need to ensure that new housing is supported by sufficient social infrastructure. Table 6.3 shows the expected split of Hillingdon's annual monitoring target between 'conventional' and non self contained units.

Policy DMH 1: Safeguarding Existing Housing

A) The net loss of existing self-contained³ housing, including affordable housing, will be resisted unless the housing is replaced with at least equivalent residential floorspace.

B) The Council will grant planning permission for the subdivision of dwellings only if:

- i) car parking standards can be met within the curtilage of the site without being detrimental to the street scene;**
- ii) all units are self contained with exclusive use of sanitary and kitchen facilities and provided with individual entrances and internal staircases to serve units above ground floor level;**
- iii) adequate amenity space is provided for the benefit of residents; and**
- iv) adequate living space standards are met.**

Housing Mix

4.6 The Council's current information on housing need indicates a substantial borough-wide requirement for larger affordable and private market units, particularly three bedroom properties. Applicants proposing residential schemes will be required to demonstrate that this need has been taken into account.

Policy DMH 2: Housing Mix

The Council will require the provision of a mix of housing units of different sizes in schemes of residential development to reflect the Council's latest information on housing need.

³ Self-containment is where all the rooms (including kitchen, bathroom and toilet) in a household's accommodation are behind a single door which only that household can use. See <https://www.gov.uk/definitions-of-general-housing-terms>

amenity space and garages and will not have a detrimental impact upon the residential amenity of adjoining properties.

Garden and Backland Development

4.15 In general, the Council will not accept proposals for developments on garden land but proposals for development of backland sites in other uses will be considered subject to the criteria in Policy DMH 6: Garden and Backland Development and other relevant policies.

4.16 The restrictive approach reflects the direct and indirect value of gardens which contribute to local character, provide safe and secure amenity and play space, support biodiversity, help to reduce flood risk and mitigate the effects of climate change, including the 'heat island' effect.

4.17 The London Plan recognises the contribution of gardens (especially back gardens) and suggests a presumption against their loss where it can be locally justified.

4.18 In addition, the Council's Townscape Character Study produced in November 2013 notes the contribution that front gardens make to local character. The Council will take account of the conclusions of the Study when assessing proposals that involve the loss of front gardens in certain character areas.

Policy DMH 6: Garden and Backland Development

There is a presumption against the loss of gardens due to the need to maintain local character, amenity space and biodiversity. In exceptional cases a limited scale of backland development may be acceptable, subject to the following criteria:

- i) neighbouring residential amenity and privacy of existing homes and gardens must be maintained and unacceptable light spillage avoided;**
- ii) vehicular access or car parking should not have an adverse impact on neighbours in terms of noise or light. Access roads between dwellings and unnecessarily long access roads will not normally be acceptable;**
- iii) development on backland sites must be more intimate in mass and scale and lower than frontage properties; and**
- iv) features such as trees, shrubs and wildlife habitat must be retained or re-provided.**

daylight and sunlight. The Council will expect the impact of the development to be assessed following the methodology set out in the most recent version of the Building Research Establishments (BRE) "Site layout planning for daylight and sunlight: A guide to good practice".

Design of waste storage facilities in new development

5.42 The sustainable management of waste is integral to any development and needs to be factored into its design at the outset. Local authorities have increasing targets to separate out materials for re-use and recycling and to reduce the amount of waste sent to landfill. Waste has the potential to be a nuisance and may cause serious problems if it is not managed properly, therefore all proposals for new development are expected to provide satisfactory arrangements for the internal and external storage and collection of general waste, recycling and organic waste. External bins should be located and screened to avoid adverse visual impacts and nuisance to both occupiers and neighbours.

Policy DMHB 11: Design of New Development

A) All development, including extensions, alterations and new buildings will be required to be designed to the highest standards and, incorporate principles of good design including:

- i) harmonising with the local context by taking into account the surrounding:**
 - scale of development, considering the height, mass and bulk of adjacent structures;
 - building plot sizes and widths, plot coverage and established street patterns;
 - building lines and setbacks, rooflines, streetscape rhythm, for example, gaps between structures and other streetscape elements, such as degree of enclosure;
 - architectural composition and quality of detailing;
 - local topography, views both from and to the site; and
 - impact on neighbouring open spaces and their environment.
- ii) ensuring the use of high quality building materials and finishes;**
- iii) ensuring that the internal design and layout of development maximises sustainability and is adaptable to different activities;**
- iv) protecting features of positive value within and adjacent to the site, including the safeguarding of heritage assets, designated**

and un-designated, and their settings; and

- v) landscaping and tree planting to protect and enhance amenity, biodiversity and green infrastructure.

B) Development proposals should not adversely impact on the amenity, daylight and sunlight of adjacent properties and open space.

C) Development will be required to ensure that the design safeguards the satisfactory re-development of any adjoining sites which have development potential. In the case of proposals for major development⁵ sites, the Council will expect developers to prepare master plans and design codes and to agree these with the Council before developing detailed designs.

D) Development proposals should make sufficient provision for well designed internal and external storage space for general, recycling and organic waste, with suitable access for collection. External bins should be located and screened to avoid nuisance and adverse visual impacts to occupiers and neighbours.

Streets and Public Realm

5.43 Strategic Objectives SO2 and SO4 seek to create neighbourhoods that are distinctive, safe, functional and accessible, whilst ensuring that due regard is given to achieving high quality design. It is important that new development contributes to the delivery of a safe and secure environment, which includes buildings, spaces and inclusive communities.

5.44 Policy DMHB 12: Streets and Public Realm sets out how we can deliver a well-designed, high quality, durable public realm. Development will be required to be well integrated with the surrounding areas to produce a coordinated and legible public realm. Connectivity and legibility around transport interchanges can be key to the delivery of a successful local environment and neighbourhood centre. It is particularly important to ensure that developments in and around these locations support and improve connections between different transport modes. Improvements to the public realm may also be sought through Planning Obligations, in accordance with the adopted Planning Obligations SPD.

5.45 Development should create streets and spaces with an appropriate degree of enclosure, which can define the boundaries of public areas whilst promoting natural surveillance and self policing to ensure they are well used and safe.

⁵ Major Development: Residential development of 10 dwellings or more; any building with a floor space of 1000 square metres or more; development on a site of 1 hectare or more.

5.46 Policy DMHB 13: Shopfronts also establishes the need to incorporate the principles of inclusive design. Inclusive design principles seek to:

- improve access to, from and within the site and buildings for all users without undue effort, separation or special treatment;
- prevent the creation of barriers to movement;
- improve way-finding legibility, signage, and evacuation routes; and
- ensure layouts create ease of movement and direct pedestrian links.

5.47 Development that restricts public access and movement, for example gated communities, are not considered to contribute to a well-connected and permeable public realm. They may also have a negative impact on sustainable communities and social cohesion and will generally not be supported.

Policy DMHB 12: Streets and Public Realm

A) Development should be well integrated with the surrounding area and accessible. It should:

- i) improve legibility and promote routes and wayfinding between the development and local amenities;
- ii) ensure public realm design takes account of the established townscape character and quality of the surrounding area;
- iii) include landscaping treatment that is suitable for the location, serves a purpose, contributes to local green infrastructure, the appearance of the area and ease of movement through the space;
- iv) provide safe and direct pedestrian and cycle movement through the space;
- v) incorporate appropriate and robust hard landscaping, using good quality materials, undertaken to a high standard;
- vi) where appropriate, include the installation of public art; and
- vii) deliver proposals which incorporate the principles of inclusive design. Proposals for gated developments will be resisted.

B) Public realm improvements will be sought from developments located close to transport interchanges and community facilities to ensure easy access between different transport modes and into local community facilities.

amenity particularly in areas deficient in green infrastructure.

C) Where space for ground level planting is limited, such as high rise buildings, the inclusion of living walls and roofs will be expected where feasible.

D) Planning applications for proposals that would affect existing trees will be required to provide an accurate tree survey showing the location, height, spread and species of trees. Where the tree survey identifies trees of merit, tree root protection areas and an arboricultural method statement will be required to show how the trees will be protected. Where trees are to be removed, proposals for replanting of new trees on-site must be provided or include contributions to offsite provision.

Safety and Security

5.57 The Council aims to maintain and enhance the amenity of its town centres to ensure that they continue to attract investment and footfall and are attractive places to meet, shop and work. As part of development proposals in the town centres Council will encourage enhancements to the public realm that encourage regular pedestrian activity and passive surveillance.

Policy DMHB 15: Planning for Safer Places

The Council will require all new development to ensure safe and attractive public and private spaces by referring to the Council's latest guidance on Secured by Design principles. Where relevant, these should be included in the Design and Access Statement.

Development will be required to comprise good design and create inclusive environments whilst improving safety and security by incorporating the following specific measures:

- i) providing entrances in visible, safe and accessible locations;**
- ii) maximising natural surveillance;**
- iii) ensuring adequate defensible space is provided;**
- iv) providing clear delineations between public and private spaces; and**
- v) providing appropriate lighting and CCTV.**

Housing Standards

5.58 Overcrowding in residential properties can have adverse impacts on the health and well being of occupants. In order to ensure that all new

housing serves the practical and social needs of occupiers, the Council will require housing proposals to provide adequate internal space and facilities.

5.59 Table 5.1 sets out minimum internal floor space standards for new dwellings which must be met in all future planning applications. Should this standard change through national or regional policies and guidance, the Council will implement the most up to date floorspace standards.

Table 5.1: Minimum Floorspace Standards (National Space Standards)

Number of bedrooms	Number of bed spaces	Minimum Gross Internal Area (m ²)			Built-in storage (m ²)
		1 storey dwellings	2 storey dwellings	3 storey dwellings	
1b	1p	39 (37)*			1.0
	2p	50	58		1.5
2b	3p	61	70		2.0
	4p	70	79		
3b	4p	74	84	90	2.5
	5p	86	93	99	
	6p	95	102	108	
4b	5p	90	97	103	3.0
	6p	99	106	112	
	7p	108	115	121	
	8p	117	124	130	
5b	6p	103	110	116	3.5
	7p	112	119	125	
	8p	121	128	134	
6b	7p	116	123	129	4.0

Notes to Table 5.1

1. * Where a studio has a shower room instead of a bathroom, the floor area may be reduced from 39m² to 37m²
2. The Gross Internal Area (GIA) of a dwelling is defined as the total floor space measured between the internal faces of perimeter walls that enclose a dwelling. This includes partitions, structural elements, cupboards, ducts, flights of stairs and voids above the stairs. GIA should be measured and denoted in square metres (m²).
3. The nationally described space standards sets a minimum ceiling height of 2.3 metres for at least 75% of the gross internal area of a the dwelling. To address the unique heat island effect of London and the distinct density and flatted nature of most of its residential development, a minimum ceiling height of 2.5m for at least 75% of the gross internal area is strongly encouraged so that new housing is of adequate quality, especially in terms of light, ventilation and sense of space.

5.60 When assessing the size of households the Council will assume that any bedroom over 11.5 sqm is capable of being occupied by two persons. Similarly any "study", "bonus room" or third living/reception room that is not

annotated as a bedroom will be assumed to be capable of serving as a bedroom.

5.61 In order to provide for the privacy of household members and to alleviate future potential for overcrowding, new family homes (3+ bedrooms) should include at least two separate living areas, one of which might be a kitchen/dining room, in addition to the requisite number of bedrooms and other facilities. Dwellings created by the conversion or subdivision of buildings or by a change of use will need to meet national internal space standards. Unless the building is a Listed Building, the retention by conversion of a building will not outweigh any proposed reductions in living standards and amenities of occupants.

5.62 All new homes should be designed to meet accessibility criteria as detailed in the Council's 'Accessible Hillingdon' SPD or subsequent guidance document(s). All housing of ten or more dwellings will be required to provide 10% of units which are accessible to wheelchair users and must comply with the design criteria of "Wheelchair Standard Homes" as defined in the Council's "Accessible Hillingdon" SPD.

Policy DMHB 16: Housing Standards

All housing development should have an adequate provision of internal space in order to provide an appropriate living environment. To achieve this all residential development or conversions should:

- i) meet or exceed the most up to date internal space standards, as set out in Table 5.1; and**
- ii) in the case of major developments, provide at least 10% of new housing to be accessible or easily adaptable for wheelchair users.**

Residential Density

5.63 London Plan 2016 Policy 3.4: Optimising housing potential, aims to optimise the housing potential of sites whilst recognising that there are a wide range of factors that need to be taken into account in determining planning decisions relating to the residential density of any proposal.

5.64 The London Plan 2016 includes a density matrix at Table 3.2, and in paragraph 3.28 it recognises that the ranges within the density matrix are broad. It goes on to state that these broad ranges 'provide the framework within which boroughs can refine local approaches to implementation of this strategic policy through their LDFs [Local Plans].'

Policy DMHB 17: Residential Density

All new residential development should take account of the Residential Density Matrix contained in Table 5.3. Developments will be expected to meet habitable rooms standards.

Private Outdoor Amenity Space

5.68 As with other forms of open spaces, private outdoor amenity space can make a positive contribution to the health and wellbeing of residents. Private gardens also provide a setting for buildings; space for landscaping and growing vegetables; and help to maintain a more natural environment for wildlife and surface water drainage.

5.69 Private outdoor space is highly valued by many people and an integral part of the quality of life of residents in outer London. The pattern of houses and gardens in Hillingdon's 'metroland' and other suburban areas form an important and positive attribute of the Borough's residential character and quality. The Council considers higher standards of private amenity space should be possible in the Borough, exceeding the requirements of the London Housing SPG.

5.70 Dwellings on upper floors should all have access to a private balcony or terrace, where this is consistent with the overall design of the building. Houses and ground floor flats should have private gardens. The Council is keen to improve the quality of housing in the Borough and therefore communal provision of private outdoor space is generally not supported unless there are strong planning reasons and the proposed scheme is of high quality with clear planning merits.

5.71 Roof gardens should only be considered where balconies are not achievable. High quality design should aim to resolve any potential conflicts between creating green roofs, providing renewable energy and supplying amenity space on roofs for residents. Table 5.3 sets out the Council's minimum private amenity space requirements which must be met or exceeded in all development proposals.

Table 5.3: Private Outdoor Amenity Space Standards

Dwelling type	No of bedrooms	Minimum amenity space provision (sqm)
Houses	1 bedroom	40
	2 and 3 bedrooms	60
	4 + bedrooms	100
Flats	Studio and 1 bedroom	20
	2 bedrooms	25
	3 + bedrooms	30

5.72 Private outdoor amenity space will be required to be well located, well designed and usable for the private enjoyment of the occupier. In assessing the quality of all amenity space in development proposals, whether individual or communal, consideration will be given to the shape and position and whether the layout has regard to matters such as daylight and sunlight, noise, enclosure and privacy.

5.73 Front boundary treatment will be required to respect the character of the streetscene. Traditional front boundaries will comprise hedges and natural materials such as brick walls, timber fences and gates. Walls and fences over 1m in front gardens require planning permission and should make positive contribution to the street scene. They should not obstruct sight lines required for road and public safety.

5.74 Outdoor amenity space will be required to provide an appropriate mix of hard and soft landscaping, including grass, shrubs and trees.

Policy DMHB 18: Private Outdoor Amenity Space

A) All new residential development and conversions will be required to provide good quality and useable private outdoor amenity space. Amenity space should be provided in accordance with the standards set out in Table 5.3.

B) Balconies should have a depth of not less than 1.5 metres and a width of not less than 2 metres.

C) Any ground floor and/or basement floor unit that is non-street facing should have a defensible space of not less than 3 metres in depth in front of any window to a bedroom or habitable room. However, for new developments in Conservation Areas, Areas of Special Local Character or for developments, which include Listed

Buildings, the provision of private open space will be required to enhance the streetscene and the character of the buildings on the site.

D) The design, materials and height of any front boundary must be in keeping with the character of the area to ensure harmonisation with the existing street scene.

Children and Young People's Play Facilities

5.75 In accordance with Policy 3.6: Children and young people's play and informal recreation facilities of the London Plan, all children and young people should have safe access to good quality, well designed, secure and stimulating play and informal recreational facilities that incorporate trees and greenery wherever possible.

5.76 New residential development, especially schemes which include family housing, will result in an increase in child yields that will require additional play space provision. Larger housing developments will therefore be required to provide at least five square metres of suitable formal play space onsite, based on the child yield of the development as a whole. This requirement needs to be seen within the context of the London-wide target of 10 square metres per child as set out in the Mayor of London's Children and Young People's Play and Informal Recreation SPG (2012).

5.77 Where it is not possible to provide sufficient on-site provision, offsite provision of new facilities or improvements to existing play spaces in the local area should be considered. If offsite provision can be shown to satisfy the needs of the new development and at the same time continue to meet the needs of existing residents, an appropriate financial contribution will be secured by legal agreement.

5.78 The Council's Open Space Strategy proposes an accessibility standard for children's playgrounds based on a 400 metre travel distance. Whilst Hillingdon contains approximately 100 equipped playgrounds within parks and other areas of open space, there are areas of deficiency in relation to the accessibility standard. The main areas of deficiency are located in Pinkwell, Botwell, South Ruislip and West Ruislip Wards. There are small areas of deficiency in Cavendish, Manor, Hillingdon East, Yiewsley, Barnhill, Yeading and West Drayton Wards.

5.79 Residential developments, whether large or small, that would increase pressures on existing play space, particularly within areas of deficiency, will be required to make an appropriate financial contribution, which will be secured by legal agreement.

Policy DMT 1: Managing Transport Impacts

A) Development proposals will be required to meet the transport needs of the development and address its transport impacts in a sustainable manner. In order for developments to be acceptable they are required to:

- i) be accessible by public transport, walking and cycling either from the catchment area that it is likely to draw its employees, customers or visitors from and/or the services and facilities necessary to support the development;**
- ii) maximise safe, convenient and inclusive accessibility to, and from within developments for pedestrians, cyclists and public transport users;**
- iii) provide equal access for all people, including inclusive access for disabled people;**
- iv) adequately address delivery, servicing and drop-off requirements; and**
- v) have no significant adverse transport or associated air quality and noise impacts on the local and wider environment, particularly on the strategic road network.**

B) Development proposals will be required to undertake a satisfactory Transport Assessment and Travel Plan if they meet or exceed the appropriate thresholds. All major developments¹¹ that fall below these thresholds will be required to produce a satisfactory Transport Statement and Local Level Travel Plan. All these plans should demonstrate how any potential impacts will be mitigated and how such measures will be implemented.

Highways Impacts

8.10 Managing traffic that arises from new development is a priority for the Borough. The Local Infrastructure Plan identifies that the strategic road network is at capacity, causing high levels of congestion and environmental impacts in the surrounding residential areas as well as delays which have a negative impact on the Borough's economy. Map 9.1 in the Local Plan Part 1 identifies congestion hotspots within the Borough. In addition, the Borough's

¹¹ Major Development: Residential development of 10 dwellings or more, any building with a floor space of 1000 square metres or more; development on a site of 1 hectare or more.

8.15 Internal roads must be constructed in accordance with Council standards for that development, and be suitable and safe for the vehicles that will use it, including any service vehicles. For larger developments that generate higher amounts of traffic (for example large residential sites), safe and direct pedestrian and cycle access, separate to vehicles, should be provided internally within the site linking to the highway.

Policy DMT 2: Highways Impacts

Development proposals must ensure that:

- i) safe and efficient vehicular access to the highway network is provided to the Council's standards;
- ii) they do not contribute to the deterioration of air quality, noise or local amenity or safety of all road users and residents;
- iii) safe, secure and convenient access and facilities for cyclists and pedestrian are satisfactorily accommodated in the design of highway and traffic management schemes;
- iv) impacts on local amenity and congestion are minimised by routing through traffic by the most direct means to the strategic road network, avoiding local distributor and access roads; and
- v) there are suitable mitigation measures to address any traffic impacts in terms of capacity and functions of existing and committed roads, including along roads or through junctions which are at capacity.

Road Safeguarding

8.16 Planning permission has been granted for the Pump Lane Link Road to serve the Southall Gas Works development site. The route of this link will continue to be safeguarded in the Plan until it is constructed in accordance with approved plans.

Policy DMT 3: Road Safeguarding

Permission will not be granted for development that would prejudice the implementation of the Hayes By-Pass link to the former gas works site, Southall.

8.24 The Council will seek to improve the pedestrian and cycle network in the Borough (as identified on Local Plan Part 2 Map 9.1 - Transport Infrastructure), including links to Hillingdon's canal and rivers network where appropriate.

8.25 All development proposals are required to provide good connectivity for pedestrians and cyclists and good permeability within the site where relevant. Connections are required to be of high quality, with safety and ease of access in mind. Development proposals must ensure that any existing pedestrian or cycle access is retained without deterioration to convenience or usability. Public routes must comply with the principles of Secured by Design through consultation with Hillingdon's Designing Out Crime Officer. They must comply with the principles of inclusive access and meet the requirements of the Accessible Hillingdon SPD.

8.26 Development proposals will be required to meet the Council's cycle parking standards as set out in Appendix C Table 1. Employment uses should include facilities for safe and secure cycle storage and changing facilities.

Policy DMT 5: Pedestrians and Cyclists

A) Development proposals will be required to ensure that safe, direct and inclusive access for pedestrians and cyclists is provided on the site connecting it to the wider network, including:

- i) the retention and, where appropriate, enhancement of any existing pedestrian and cycle routes;**
- ii) the provision of a high quality and safe public realm or interface with the public realm, which facilitates convenient and direct access to the site for pedestrian and cyclists;**
- iii) the provision of well signposted, attractive pedestrian and cycle routes separated from vehicular traffic where possible; and**
- iv) the provision of cycle parking and changing facilities in accordance with Appendix C, Table 1 or, in agreement with Council.**

B) Development proposals located next to or along the Blue Ribbon Network will be required to enhance and facilitate inclusive, safe and secure pedestrian and cycle access to the network. Development proposals, by virtue of their design, will be required to complement and enhance local amenity and include passive surveillance to the network.

addition to "blue badge" parking, the Council also operates a "brown badge" scheme for older residents with restricted mobility. In accordance with the Accessible Hillingdon SPD, 10% of car parking spaces must be for blue badge holders and 5% for brown badge holders, with at least one accessible on or off street parking bay designated for blue badge holders, even if no general parking is provided.

Policy DMT 6: Vehicle Parking

A) Development proposals must comply with the parking standards outlined in Appendix C Table 1 in order to facilitate sustainable development and address issues relating to congestion and amenity. The Council may agree to vary these requirements when:

- i) the variance would not lead to a deleterious impact on street parking provision, congestion or local amenity; and/or**
- ii) a transport appraisal and travel plan has been approved and parking provision is in accordance with its recommendations.**

B) All car parks provided for new development will be required to contain conveniently located reserved spaces for wheelchair users and those with restricted mobility in accordance with the Council's Accessible Hillingdon SPD.

Freight

8.33 The movement of freight by road is recognised as a contributor to air quality and noise issues in the Borough. While this may be in part attributed to the proximity of the motorway network and through traffic, freight movement in the Borough originates from industry and commercial operations which may include mineral workings and waste management. Heathrow Airport is recognised as a significant generator of freight traffic especially from areas to the west of the Borough.¹⁷

8.34 The Council will encourage new development proposals to locate in appropriate locations with safe and convenient access to the strategic road network and avoid lower classification of roads to minimise impacts on local amenity and air quality. Proposals should include, where relevant, delivery and servicing plans (DSP) and construction and logistic plans (CLP) as part of the transport appraisal and travel plan requirement. These plans should aim for the efficient and consolidated movement of goods with minimum disruption to local amenity.

¹⁷ Local Implementation Plan April 2011, London Borough of Hillingdon p28

Policy D1 London's form, character and capacity for growth

Defining an area's character to understand its capacity for growth

- A Boroughs should undertake area assessments to define the characteristics, qualities and value of different places within the plan area to develop an understanding of different areas' capacity for growth. Area assessments should cover the elements listed below:
- 1) demographic make-up and socio-economic data (such as Indices of Multiple Deprivation, health and wellbeing indicators, population density, employment data, educational qualifications, crime statistics)
 - 2) housing types and tenure
 - 3) urban form and structure (for example townscape, block pattern, urban grain, extent of frontages, building heights and density)
 - 4) existing and planned transport networks (particularly walking and cycling networks) and public transport connectivity
 - 5) air quality and noise levels
 - 6) open space networks, green infrastructure, and water bodies
 - 7) historical evolution and heritage assets (including an assessment of their significance and contribution to local character)
 - 8) topography and hydrology
 - 9) land availability
 - 10) existing and emerging Development Plan designations
 - 11) land uses
 - 12) views and landmarks.

Planning for growth

- B In preparing Development Plans, boroughs should plan to meet borough-wide growth requirements, including their overall housing targets, by:
- 1) using the findings of area assessments (as required in Part A) to identify suitable locations for growth, and the potential scale of that growth (e.g. opportunities for extensive, moderate or limited growth) consistent with the spatial approach set out in this Plan; and

- 2) assessing the capacity of existing and planned physical, environmental and social infrastructure to support the required level of growth and, where necessary, improvements to infrastructure capacity should be planned in infrastructure delivery plans or programmes to support growth; and
- 3) following the design-led approach (set out in Policy D3 Optimising site capacity through the design-led approach) to establish optimised site capacities for site allocations. Boroughs are encouraged to set out acceptable building heights, scale, massing and indicative layouts for allocated sites, and, where appropriate, the amount of floorspace that should be provided for different land uses.

- 3.1.1 This Plan provides a policy framework for delivering Good Growth through good design. Part A of this policy sets out the requirements for assessing an area's characteristics and Part B sets out the steps for using this information to establish the capacity for growth of different areas and ensure that sites are developed to an optimum capacity that is responsive to the site's context and supporting infrastructure.
- 3.1.2 **Understanding the existing character and context** of individual areas is essential in determining how different places may best develop in the future. An evaluation of the current characteristics of a place, how its past social, cultural, physical and environmental influences have shaped it and what the potential opportunities are for it to change will help inform an understanding of an area's capacity for growth and is crucial for ensuring that growth and development is inclusive.
- 3.1.3 It is important to understand **how places are perceived, experienced and valued**. Those involved in commissioning or undertaking area assessments should consider how they can involve the widest range of people appropriate depending on the scope and purpose of the work.
- 3.1.4 **Area assessments** should be used to identify the areas that are appropriate for extensive, moderate, or limited growth to accommodate borough-wide growth requirements. This analysis should form the foundation of Development Plan preparation and area-based strategies. This process will be fundamental to inform decision making on how places should develop, speeding up the Development Plan process and bringing about better-quality development. It will also help speed up planning decision making by providing an easily accessible knowledge-base about an area that is integrated in Development Plan policies.

Policy D4 Delivering good design

Design analysis and development certainty

- A Masterplans and design codes should be used to help bring forward development and ensure it delivers high quality design and place-making based on the requirements set out in Part B of Policy D3 Optimising site capacity through the design-led approach.
- B Where appropriate, visual, environmental and movement modelling/ assessments should be undertaken to analyse potential design options for an area, site or development proposal. These models, particularly 3D virtual reality and other interactive digital models, should, where possible, be used to inform plan-making and decision-taking, and to engage Londoners in the planning process.

Design scrutiny

- C Design and access statements submitted with development proposals should demonstrate that the proposal meets the design requirements of the London Plan.
- D The design of development proposals should be thoroughly scrutinised by borough planning, urban design, and conservation officers, utilising the analytical tools set out in Part B, local evidence, and expert advice where appropriate. In addition, boroughs and applicants should make use of the design review process to assess and inform design options early in the planning process. Development proposals referable to the Mayor must have undergone at least one design review early on in their preparation before a planning application is made, or demonstrate that they have undergone a local borough process of design scrutiny, based on the principles set out in Part E if they:
 - 1) include a residential component that exceeds 350 units per hectare; or
 - 2) propose a building defined as a tall building by the borough (see Policy D9 Tall buildings), or that is more than 30m in height where there is no local definition of a tall building.

- E** The format of design reviews for any development should be agreed with the borough and comply with the Mayor's guidance on review principles, process and management, ensuring that:
- 1) design reviews are carried out transparently by independent experts in relevant disciplines
 - 2) design review comments are mindful of the wider policy context and focus on interpreting policy for the specific scheme
 - 3) where a scheme is reviewed more than once, subsequent design reviews reference and build on the recommendations of previous design reviews
 - 4) design review recommendations are appropriately recorded and communicated to officers and decision makers
 - 5) schemes show how they have considered and addressed the design review recommendations
 - 6) planning decisions demonstrate how design review has been addressed.

Maintaining design quality

- F** The design quality of development should be retained through to completion by:
- 1) ensuring maximum detail appropriate for the design stage is provided to avoid the need for later design amendments and to ensure scheme quality is not adversely affected by later decisions on construction, materials, landscaping details or minor alterations to layout or form of the development
 - 2) ensuring the wording of the planning permission, and associated conditions and legal agreement, provide clarity regarding the quality of design
 - 3) avoiding deferring the assessment of the design quality of large elements of a development to the consideration of a planning condition or referred matter
 - 4) local planning authorities considering conditioning the ongoing involvement of the original design team to monitor the design quality of a development through to completion.

Policy D5 Inclusive design

- A Boroughs, in preparing their Development Plans, should support the creation of inclusive neighbourhoods by embedding inclusive design, and collaborating with local communities in the development of planning policies that affect them.
- B Development proposal should achieve the highest standards of accessible and inclusive design. They should:
 - 1) be designed taking into account London's diverse population
 - 2) provide high quality people focused spaces that are designed to facilitate social interaction and inclusion
 - 3) be convenient and welcoming with no disabling barriers, providing independent access without additional undue effort, separation or special treatment
 - 4) be able to be entered, used and exited safely, easily and with dignity for all
 - 5) be designed to incorporate safe and dignified emergency evacuation for all building users. In all developments where lifts are installed, as a minimum at least one lift per core (or more subject to capacity assessments) should be a suitably sized fire evacuation lift suitable to be used to evacuate people who require level access from the building.
- C Design and Access Statements, submitted as part of development proposals, should include an inclusive design statement.

3.5.1 The built environment includes the internal and external parts of buildings, as well as the spaces in between them. Despite recent progress in building a more accessible city, too many Londoners still experience barriers to living independent and dignified lives, due to the way the built environment has been designed and constructed or how it is managed. An **inclusive design approach** helps to ensure the diverse needs of all Londoners are integrated into Development Plans and proposals from the outset. This is essential to ensuring that the built environment is safe, accessible and convenient, and enables everyone to access the opportunities London has to offer.

3.5.2 **Inclusive design is indivisible from good design.** It is therefore essential to consider inclusive design and the development's contribution to the creation of inclusive neighbourhoods at the earliest possible stage in the development

Policy D6 Housing quality and standards

- A Housing development should be of high quality design and provide adequately-sized rooms (see [Table 3.1](#)) with comfortable and functional layouts which are fit for purpose and meet the needs of Londoners without differentiating between tenures.
- B Qualitative aspects of a development are key to ensuring successful sustainable housing. [Table 3.2](#) sets out key qualitative aspects which should be addressed in the design of housing developments.
- C Housing development should maximise the provision of dual aspect dwellings and normally avoid the provision of single aspect dwellings. A single aspect dwelling should only be provided where it is considered a more appropriate design solution to meet the requirements of Part B in [Policy D3 Optimising site capacity through the design-led approach](#) than a dual aspect dwelling, and it can be demonstrated that it will have adequate passive ventilation, daylight and privacy, and avoid overheating.
- D The design of development should provide sufficient daylight and sunlight to new and surrounding housing that is appropriate for its context, whilst avoiding overheating, minimising overshadowing and maximising the usability of outside amenity space.
- E Housing should be designed with adequate and easily accessible storage space that supports the separate collection of dry recyclables (for at least card, paper, mixed plastics, metals, glass) and food waste as well as residual waste.
- F Housing developments are required to meet the minimum standards below which apply to all tenures and all residential accommodation that is self-contained.

Private internal space

- 1) Dwellings must provide at least the gross internal floor area and built-in storage area set out in [Table 3.1](#).
- 2) A dwelling with two or more bedspaces must have at least one double (or twin) bedroom that is at least 2.75m wide. Every other additional double (or twin) bedroom must be at least 2.55m wide.

- 3) A one bedspace single bedroom must have a floor area of at least 7.5 sq.m. and be at least 2.15m wide.
- 4) A two bedspace double (or twin) bedroom must have a floor area of at least 11.5 sq.m..
- 5) Any area with a headroom of less than 1.5m is not counted within the Gross Internal Area unless used solely for storage (If the area under the stairs is to be used for storage, assume a general floor area of 1 sq.m. within the Gross Internal Area).
- 6) Any other area that is used solely for storage and has a headroom of 0.9-1.5m (such as under eaves) can only be counted up to 50 per cent of its floor area, and any area lower than 0.9m is not counted at all.
- 7) A built-in wardrobe counts towards the Gross Internal Area and bedroom floor area requirements, but should not reduce the effective width of the room below the minimum widths set out above. Any built-in area in excess of 0.72 sq.m. in a double bedroom and 0.36 sq.m. in a single bedroom counts towards the built-in storage requirement.
- 8) The minimum floor to ceiling height must be 2.5m for at least 75 per cent of the Gross Internal Area of each dwelling.

Private outside space

- 9) Where there are no higher local standards in the borough Development Plan Documents, a minimum of 5 sq.m. of private outdoor space should be provided for 1-2 person dwellings and an extra 1 sq.m. should be provided for each additional occupant, and it must achieve a minimum depth and width of 1.5m. This does not count towards the minimum Gross Internal Area space standards required in [Table 3.1](#)
- G The Mayor will produce guidance on the implementation of this policy for all housing tenures.

Policy D7 Accessible housing

- A To provide suitable housing and genuine choice for London's diverse population, including disabled people, older people and families with young children, residential development must ensure that:
- 1) at least 10 per cent of dwellings (which are created via works to which Part M volume 1 of the Building Regulations applies) meet Building Regulation requirement M4(3) 'wheelchair user dwellings'
 - 2) all other dwellings (which are created via works to which Part M volume 1 of the Building Regulations applies) meet Building Regulation requirement M4(2) 'accessible and adaptable dwellings'.

- 3.7.1 Many households in London require **accessible or adapted housing** to lead dignified and independent lives. In addition, Londoners are living longer and with the incidence of disability increasing with age, older people should have the choice of remaining in their own homes rather than moving due to inaccessible accommodation. To address these and future needs, Policy D7 Accessible housing should apply to all dwellings which are created via works to which Part M volume 1 of the Building Regulations applies,³⁰ which, at the time of publication of this Plan, generally limits the application of this policy to new build dwellings.
- 3.7.2 Where any part of an **approach route** – including the vertical circulation in the common parts of a block of flats – is shared between dwellings of different categories (i.e. M4(2) and M4(3)), the design provisions of the highest numbered category of dwelling served should be applied, to ensure that people can visit their neighbours with ease and are not limited by the design of communal areas. For residential disabled persons parking requirements – see Policy T6 .1 Residential parking.
- 3.7.3 To ensure that all potential residents have **choice within a development**, the requirement for M4(3) wheelchair user dwellings applies to all tenures. Wheelchair user dwellings should be distributed throughout a development to provide a range of aspects, floor level locations, views and unit sizes.

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This is governed by the Building Regulations 2010: http://www.legislation.gov.uk/uksi/2010/2214/pdfs/uksi_20102214_en.pdf and the Building Regulations &c. (Amendment) Regulations 2015: http://www.legislation.gov.uk/uksi/2015/767/pdfs/uksi_20150767_en.pdf

Policy D8 Public realm

Development Plans and development proposals should:

- A encourage and explore opportunities to create new public realm where appropriate
- B ensure the public realm is well-designed, safe, accessible, inclusive, attractive, well-connected, related to the local and historic context, and easy to understand, service and maintain. Landscape treatment, planting, street furniture and surface materials should be of good quality, fit-for-purpose, durable and sustainable. Lighting, including for advertisements, should be carefully considered and well-designed in order to minimise intrusive lighting infrastructure and reduce light pollution
- C maximise the contribution that the public realm makes to encourage active travel and ensure its design discourages travel by car and excessive on-street parking, which can obstruct people's safe enjoyment of the space. This includes design that reduces the impact of traffic noise and encourages appropriate vehicle speeds
- D be based on an understanding of how the public realm in an area functions and creates a sense of place during different times of the day and night, days of the week and times of the year. In particular, they should demonstrate an understanding of how people use the public realm, and the types, location and relationship between public spaces in an area, identifying where there are deficits for certain activities, or barriers to movement that create severance for pedestrians and cyclists
- E ensure both the movement function of the public realm and its function as a place are provided for and that the balance of space and time given to each reflects the individual characteristics of the area. The priority modes of travel for the area should be identified and catered for, as appropriate. Desire lines for people walking and cycling should be a particular focus, including the placement of street crossings, which should be regular, convenient and accessible
- F ensure there is a mutually supportive relationship between the space, surrounding buildings and their uses, so that the public realm enhances the amenity and function of buildings and the design of buildings contributes to a vibrant public realm

- G ensure buildings are of a design that activates and defines the public realm, and provides natural surveillance. Consideration should also be given to the local microclimate created by buildings, and the impact of service entrances and facades on the public realm
- H ensure appropriate management and maintenance arrangements are in place for the public realm, which maximise public access and minimise rules governing the space to those required for its safe management in accordance with the Public London Charter
- I incorporate green infrastructure such as street trees and other vegetation into the public realm to support rainwater management through sustainable drainage, reduce exposure to air pollution, moderate surface and air temperature and increase biodiversity
- J ensure that appropriate shade, shelter, seating and, where possible, areas of direct sunlight are provided, with other microclimatic considerations, including temperature and wind, taken into account in order to encourage people to spend time in a place
- K ensure that street clutter, including street furniture that is poorly located, unsightly, in poor condition or without a clear function is removed, to ensure that pedestrian amenity is improved. Consideration should be given to the use, design and location of street furniture so that it complements the use and function of the space. Applications which seek to introduce unnecessary street furniture should be refused
- L explore opportunities for innovative approaches to improving the public realm such as open street events and Play Streets
- M create an engaging public realm for people of all ages, with opportunities for social activities, formal and informal play and social interaction during the daytime, evening and at night. This should include identifying opportunities for the meanwhile use of sites in early phases of development to create temporary public realm
- N ensure that any on-street parking is designed so that it is not dominant or continuous, and that there is space for green infrastructure as well as cycle parking in the carriageway. Parking should not obstruct pedestrian lines
- O ensure the provision and future management of free drinking water at appropriate locations in the new or redeveloped public realm.

infrastructure. Further guidance will be provided in Supplementary Planning Guidance.

- 3.10.4 Most proposals for the construction of a basement will require planning permission. These proposals need to be managed sensitively through the planning application process to ensure that their potential impact on the local environment and residential amenity is acceptable.
- 3.10.5 Basement development (small or large) can also cause significant noise and vibration disturbance through the reflection/focusing of ground-borne vibration originating from existing infrastructure, such as London Underground infrastructure, if this issue is not considered and managed effectively during its design and construction. Impact assessments prior to construction should consider the effects on the ground-borne vibration environment and propose appropriate mitigation, especially for surrounding residents.
- 3.10.6 The Mayor considers that **smaller-scale basement excavations**, where they are appropriately designed and constructed, can contribute to the efficient use of land, and provide extra living space without the costs of moving house. In areas where basement developments could cause particular harm, boroughs can consider introducing **Article 4 Directions** to require smaller-scale proposals to obtain planning permission.

Policy D11 Safety, security and resilience to emergency

- A The Mayor uses his convening power to work with relevant partners and stakeholders to ensure and maintain a safe and secure environment in London that is resilient against emergencies including fire, flood, weather, terrorism and related hazards as set out in the London Risk Register.
- B Boroughs should work with their local Metropolitan Police Service 'Design Out Crime' officers and planning teams, whilst also working with other agencies such as the London Fire Commissioner, the City of London Police and the British Transport Police to identify the community safety needs, policies and sites required for their area to support provision of necessary infrastructure to maintain a safe and secure environment and reduce the fear of crime. Policies and any site allocations, where locally justified, should be set out in Development Plans.
- C Development proposals should maximise building resilience and minimise potential physical risks, including those arising as a result of extreme weather,

fire, flood and related hazards. Development should include measures to design out crime that – in proportion to the risk – deter terrorism, assist in the detection of terrorist activity and help mitigate its effects. These measures should be considered at the start of the design process to ensure they are inclusive and aesthetically integrated into the development and the wider area.

- 3.11.1 Londoners look to the Mayor as a civic leader for support, advice and reassurance in the event of a major incident taking place. The role of the Mayor in an attack is an interconnected one and is clarified via his attendance at COBR³² meetings about incidents affecting, or potentially affecting, London. The London Resilience Partnership maintains the **London Risk Register**³³. The London Risk Register provides a summary of the main risks affecting London and identifies the existing risk management arrangements for the risks.
- 3.11.2 New developments, including building refurbishments, should be constructed with resilience at the heart of their design. In particular they should incorporate appropriate **fire safety** solutions and represent best practice in fire safety planning in both design and management. The London Fire Commissioner should be consulted early in the design process to ensure major developments have fire safety solutions built-in. Flooding issues and designing out the effects of flooding are addressed in Chapter 9.
- 3.11.3 Measures to **design out crime**, including counter terrorism measures, should be integral to development proposals and considered early in the design process, taking into account the principles contained in guidance such as the Secured by Design Scheme³⁴ published by the Police. Further guidance is provided by Government on security design³⁵. This will ensure development proposals

³² COBR (often referred to as COBRA) stands for Cabinet Office Briefing Rooms, these are the locations the Government's emergency response committee set up to respond to major events and emergencies.

³³ For further details see <http://www.london.gov.uk/mayor-assembly/mayor/london-resilience>

³⁴ For further details see <http://www.securedbydesign.com/>

³⁵ Crowded Places Guidance, National Counter Terrorism Security Office, 2017: <https://www.gov.uk/government/publications/crowded-places-guidance>; Crowded Places: The Planning System and Counter-Terrorism, Home Office and DCLG, 2012; and Protecting crowded places: design and technical issues, Home Office, Centre for the Protection of National Infrastructure and the National Counter-Terrorism Security Office, 2014: <https://www.gov.uk/government/collections/crowded-places>



Policy H1 Increasing housing supply

- A** Table 4.1 sets the ten-year targets for net housing completions that each local planning authority should plan for. Boroughs must include these targets in their Development Plan Documents.
- B** To ensure that ten-year housing targets are achieved, boroughs should:
- 1) prepare delivery-focused Development Plans which:
 - a) allocate an appropriate range and number of sites that are suitable for residential and mixed-use development and intensification
 - b) encourage development on other appropriate windfall sites not identified in Development Plans through the Plan period, especially from the sources of supply listed in B2
 - c) enable the delivery of housing capacity identified in Opportunity Areas, working closely with the GLA.
 - 2) optimise the potential for housing delivery on all suitable and available brownfield sites through their Development Plans and planning decisions, especially the following sources of capacity:
 - a) sites with existing or planned public transport access levels (PTALs) 3-6 or which are located within 800m distance of a station³⁹ or town centre boundary⁴⁰
 - b) mixed-use redevelopment of car parks and low-density retail parks and supermarkets
 - c) housing intensification on other appropriate low-density sites in commercial, leisure and infrastructure uses
 - d) the redevelopment of surplus utilities and public sector owned sites
 - e) small sites (see [Policy H2 Small sites](#))
 - f) industrial sites that have been identified through the processes set out in [Policy E4 Land for industry, logistics and services to support](#)

³⁹ Tube, rail, DLR and tram stations

⁴⁰ District, major, metropolitan and international town centres – for the purposes of [Policy H1 Increasing housing supply](#) Part B2a, the 800m distance is measured from the edge of the town centre boundary

London's economic function, Policy E5 Strategic Industrial Locations (SIL), Policy E6 Locally Significant Industrial Sites and Policy E7 Industrial intensification, co-location and substitution.

- 3) establish ambitious and achievable build-out rates at the planning stage, incentivising build-out milestones to help ensure that homes are built quickly and to reduce the likelihood of permissions being sought to sell land on at a higher value.
- C Boroughs should proactively use brownfield registers and permission in principle to increase planning certainty for those wishing to build new homes.
 - D Boroughs should publish and annually update housing trajectories based on the targets in Table 4.1 and should work with the Mayor to resolve any anticipated shortfalls.
 - E Where new sustainable transport infrastructure is planned, boroughs should re-evaluate the appropriateness of land use designations and the potential to accommodate higher-density residential and mixed-use development, taking into account future public transport capacity and connectivity levels.
 - F On sites that are allocated for residential and mixed-use development there is a general presumption against single use low-density retail and leisure parks. These developments should be designed to provide a mix of uses including housing on the same site in order to make the best use of land available for development.
- 4.1.1 The Mayor has carried out a London-wide Strategic Housing Market Assessment (SHMA) and Strategic Housing Land Availability Assessment (SHLAA). The SHMA has identified **need for 66,000 additional homes per year**. The SHMA covers overall housing need as well as exploring specific requirements for purpose-built student accommodation and specialist older persons' accommodation within the overall figure.
 - 4.1.2 For the purposes of the Plan, London is considered as a single housing market area, with a series of complex and interlinked sub-markets. The advantage of **strategic planning** is that it allows London to focus development in the most sustainable locations, allowing all of London's land use needs to be planned for with an understanding of how best to deliver them across the capital. Because of London's ability to plan strategically, boroughs are not required to carry out

- 9.11.5 The United Kingdom Onshore Oil and Gas Group (UKOOG), which represents the industry, has established a **Community Engagement Charter** for new onshore oil and gas proposals.¹⁷² The Charter sets out a number of commitments for operators which includes engagement with local communities at each of the three main stages of operations (exploration, appraisal and production). Where any proposals for fracking to come forward, applicants who are members of UKOOG would be expected to comply with these commitments.

Policy SI 12 Flood risk management

- A Current and expected flood risk from all sources (as defined in paragraph 9.2.12) across London should be managed in a sustainable and cost-effective way in collaboration with the Environment Agency, the Lead Local Flood Authorities, developers and infrastructure providers.
- B Development Plans should use the Mayor's Regional Flood Risk Appraisal and their Strategic Flood Risk Assessment as well as Local Flood Risk Management Strategies, where necessary, to identify areas where particular and cumulative flood risk issues exist and develop actions and policy approaches aimed at reducing these risks. Boroughs should cooperate and jointly address cross-boundary flood risk issues including with authorities outside London.
- C Development proposals should ensure that flood risk is minimised and mitigated, and that residual risk is addressed. This should include, where possible, making space for water and aiming for development to be set back from the banks of watercourses.
- D Developments Plans and development proposals should contribute to the delivery of the measures set out in Thames Estuary 2100 Plan. The Mayor will work with the Environment Agency and relevant local planning authorities, including authorities outside London, to safeguard an appropriate location for a new Thames Barrier.
- E Development proposals for utility services should be designed to remain operational under flood conditions and buildings should be designed for quick recovery following a flood.

¹⁷²

Community Engagement Charter – oil and gas from unconventional reservoirs, UKCOOG, 2013, <http://www.ukoog.org.uk/community/charter>



- F Development proposals adjacent to flood defences will be required to protect the integrity of flood defences and allow access for future maintenance and upgrading. Unless exceptional circumstances are demonstrated for not doing so, development proposals should be set back from flood defences to allow for any foreseeable future maintenance and upgrades in a sustainable and cost-effective way.
- G Natural flood management methods should be employed in development proposals due to their multiple benefits including increasing flood storage and creating recreational areas and habitat.

- 9.12.1 In London, the boroughs are **Lead Local Flood Authorities** (LLFAs) and are responsible, in particular, for local surface water flood risk management and for maintaining a flood risk management assets register. They produce Local Flood Risk Management Strategies. LLFAs should cooperate on strategic and cross-boundary issues.
- 9.12.2 The **Regional Flood Risk Appraisal** (RFRA) considers all sources of flood risk including tidal, fluvial, surface water, sewer, groundwater and reservoir flooding and has been updated in collaboration with the Environment Agency. The RFRA provides a spatial analysis of flood risk including consideration of risks at major growth locations such as Opportunity Areas and Town Centres and key infrastructure assets. The Government's updated allowances for climate change are reflected in the expected sea level rise and increased flood risks considered in the RFRA. The updated allowances consider the lifetime, vulnerability and location of a development.
- 9.12.3 The **Thames Estuary 2100 Plan** (TE2100), published by the Environment Agency, and endorsed by Government, focuses on a partnership approach to tidal flood risk management. It requires the ability to maintain and raise some tidal walls and embankments. The Environment Agency estimates that a new Thames Barrier is likely to be required towards the end of the century. Potential sites will be needed in Kent and/or Essex requiring close partnership working with the relevant local authorities.
- 9.12.4 The concept of Local Authorities producing **Riverside Strategies** was introduced through the TE2100 Plan to improve flood risk management in the vicinity of the river, create better access to and along the riverside, and improve the riverside environment. The Mayor will support these strategies.



- 9.12.5 The Environment Agency's Thames River Basin District **Flood Risk Management Plan** is part of a collaborative and integrated approach to catchment planning for water. Measures to address flood risk should be integral to development proposals and considered early in the design process. This will ensure they provide adequate protection, do not compromise good design, do not shift vulnerabilities elsewhere, and are cost-effective. Natural flood risk management in the upper river catchment areas can also help to reduce risk lower in the catchments. Making space for water when considering development proposals is particularly important where there is significant exposure to flood risk along tributaries and at the tidal-fluvial interface. The Flood Risk Management Plan should inform the boroughs' Strategic Flood Risk Assessments.
- 9.12.6 In terms of mitigating **residual risk**, it is important that a strategy for resistance and then resilience including safe evacuation and quick recovery to address such risks is in place; this is also the case for utility services. In the case of a severe flood, especially a tidal flood, many thousands of properties could be affected. This will make rescue and the provision of temporary accommodation challenging. Designing buildings such that people can remain within them and be safe and comfortable in the unlikely event of such a flood, will improve London's resilience to such an event.

Policy SI 13 Sustainable drainage

- A Lead Local Flood Authorities should identify – through their Local Flood Risk Management Strategies and Surface Water Management Plans – areas where there are particular surface water management issues and aim to reduce these risks. Increases in surface water run-off outside these areas also need to be identified and addressed.
- B Development proposals should aim to achieve greenfield run-off rates and ensure that surface water run-off is managed as close to its source as possible. There should also be a preference for green over grey features, in line with the following drainage hierarchy:
- 1) rainwater use as a resource (for example rainwater harvesting, blue roofs for irrigation)
 - 2) rainwater infiltration to ground at or close to source
 - 3) rainwater attenuation in green infrastructure features for gradual release (for example green roofs, rain gardens)



- 4) rainwater discharge direct to a watercourse (unless not appropriate)
- 5) controlled rainwater discharge to a surface water sewer or drain
- 6) controlled rainwater discharge to a combined sewer.
- C Development proposals for impermeable surfacing should normally be resisted unless they can be shown to be unavoidable, including on small surfaces such as front gardens and driveways.
- D Drainage should be designed and implemented in ways that promote multiple benefits including increased water use efficiency, improved water quality, and enhanced biodiversity, urban greening, amenity and recreation.

- 9.13.1 London is at particular risk from surface water flooding, mainly due to the large extent of impermeable surfaces. Lead Local Flood Authorities have responsibility for managing surface water drainage through the planning system, as well as ensuring that appropriate maintenance arrangements are put in place. **Local Flood Risk Management Strategies and Surface Water Management Plans** should ensure they address flooding from multiple sources including surface water, groundwater and small watercourses that occurs as a result of heavy rainfall.
- 9.13.2 Development proposals should aim to get as close to greenfield run-off rates¹⁷³ as possible depending on site conditions. The **well-established drainage hierarchy** set out in this policy helps to reduce the rate and volume of surface water run-off. Rainwater should be managed as close to the top of the hierarchy as possible. There should be a preference for green over grey features, and drainage by gravity over pumped systems. A blue roof is an attenuation tank at roof or podium level; the combination of a blue and green roof is particularly beneficial, as the attenuated water is used to irrigate the green roof.
- 9.13.3 For many sites, it may be appropriate to use **more than one form of drainage**, for example a proportion of rainwater can be managed by more sustainable methods, with residual rainwater managed lower down the hierarchy. In some cases, direct discharge into the watercourse is an appropriate approach, for example rainwater discharge into the tidal Thames or a dock. This should include suitable pollution prevention filtering measures, ideally by using soft engineering or green infrastructure. In addition, if direct discharge is to a watercourse where

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The runoff that would occur from a site in undeveloped natural state.



Policy T5 Cycling

- A 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:
- 1) supporting the delivery of a London-wide network of cycle routes, with new routes and improved infrastructure
 - 2) 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 set out in Table 10.2 and Figure 10.3, ensuring that a minimum of two short-stay and two long-stay cycle parking spaces are provided where the application of the minimum standards would result in a lower provision.
- B Cycle parking should be designed and laid out in accordance with the guidance contained in the London Cycling Design Standards.¹⁸² Development proposals should demonstrate how cycle parking facilities will cater for larger cycles, including adapted cycles for disabled people.
- C Development Plans requiring more generous provision of cycle parking based on local evidence will be supported.
- D Where it is not possible to provide suitable short-stay cycle parking off the public highway, the borough should work with stakeholders to identify an appropriate on-street location for the required provision. This may mean the reallocation of space from other uses such as on-street car parking. Alternatively, in town centres, adding the required provision to general town centre cycle parking is also acceptable. In such cases, a commuted sum should be paid to the local authority to secure provision.
- E Where it is not possible to provide adequate cycle parking within residential developments, boroughs must work with developers to propose alternative solutions which meet the objectives of the standards. These may include options such as providing spaces in secure, conveniently-located, on-street parking facilities such as bicycle hangers.

¹⁸²

London Cycling Design Standards, Transport for London, <https://tfl.gov.uk/corporate/publications-and-reports/streets-toolkit#on-this-page-2>

long-stay spaces and where the full provision could not otherwise be provided. Provision of cycle hire caters for a different market of cyclist and also should not be accepted in lieu of cycle parking.

- 10.5.10 Where standards are based on floorspace, these have been calculated on the basis of the level of demand and potential growth in relation to Gross External Area (GEA). This calculation already takes into account that not all of the area covered by GEA will generate cycling trips.

Policy T6 Car parking

- A Car parking should be restricted in line with levels of existing and future public transport accessibility and connectivity.
- B Car-free development should be the starting point for all development proposals in places that are (or are planned to be) well-connected by public transport, with developments elsewhere designed to provide the minimum necessary parking ('car-lite'). Car-free development has no general parking but should still provide disabled persons parking in line with Part E of this policy.
- C An absence of local on-street parking controls should not be a barrier to new development, and boroughs should look to implement these controls wherever necessary to allow existing residents to maintain safe and efficient use of their streets.
- D The maximum car parking standards set out in Policy T6 .1 Residential parking to Policy T6 .5 Non-residential disabled persons parking should be applied to development proposals and used to set local standards within Development Plans.
- E Appropriate disabled persons parking for Blue Badge holders should be provided as set out in Policy T6 .1 Residential parking to Policy T6 .5 Non-residential disabled persons parking.
- F Where provided, each motorcycle parking space should count towards the maximum for car parking spaces at all use classes.
- G Where car parking is provided in new developments, provision should be made for infrastructure for electric or other Ultra-Low Emission vehicles in line with Policy T6 .1 Residential parking, Policy T6 .2 Office Parking, Policy T6 .3 Retail parking, and Policy T6 .4 Hotel and leisure uses parking.

All operational parking should make this provision, including offering rapid charging. New or re-provided petrol filling stations should provide rapid charging hubs and/or hydrogen refuelling facilities.

- H Where electric vehicle charging points are provided on-street, physical infrastructure should not negatively affect pedestrian amenity and should ideally be located off the footway. Where charging points are located on the footway, it must remain accessible to all those using it including disabled people.
 - I Adequate provision should be made for efficient deliveries and servicing and emergency access.
 - J A Parking Design and Management Plan should be submitted alongside all applications which include car parking provision, indicating how the car parking will be designed and managed, with reference to Transport for London guidance on parking management and parking design.
 - K Boroughs that have adopted or wish to adopt more restrictive general or operational parking policies are supported, including borough-wide or other area-based car-free policies. Outer London boroughs wishing to adopt minimum residential parking standards through a Development Plan Document (within the maximum standards set out in [Policy T6.1 Residential parking](#)) must only do so for parts of London that are PTAL 0-1. Inner London boroughs should not adopt minimum standards. Minimum standards are not appropriate for non-residential use classes in any part of London.
 - L Where sites are redeveloped, parking provision should reflect the current approach and not be re-provided at previous levels where this exceeds the standards set out in this policy. Some flexibility may be applied where retail sites are redeveloped outside of town centres in areas which are not well served by public transport, particularly in outer London.
- 10.6.1 To manage London's road network and ensure that people and businesses can move about the city as the population grows and housing delivery increases significantly, new parking provision must be carefully controlled. The **dominance of vehicles on streets** is a significant barrier to walking and cycling, reduces the appeal of streets as public places and has an impact on the reliability and journey times of bus services. Reduced parking provision can facilitate higher-density development and support the creation of mixed and vibrant places that are designed for people rather than vehicles. As the population grows, a

- 10.6.7 The general principles outlined in paragraphs 10.6.4 to 10.6.6 above apply to the parking standards set for residential, office (and Use Classes B2 and B8), retail, and hotel and leisure uses under Policy T6 .1 Residential parking to Policy T6 .5 Non-residential disabled persons parking. In relation to Policy T6 Car parking Part L, where industrial sites are redeveloped parking will be considered on a case by case basis as set out in paragraph 10.6.18.
- 10.6.8 Surface-level car parking should be **permeable** in accordance with Policy Policy SI 13 Sustainable drainage.

Policy T6.1 Residential parking

- A New residential development should not exceed the maximum parking standards set out in Table 10.3. These standards are a hierarchy with the more restrictive standard applying when a site falls into more than one category.
- B Parking spaces within communal car parking facilities (including basements) should be leased rather than sold.
- C All residential car parking spaces must provide infrastructure for electric or Ultra-Low Emission vehicles. At least 20 per cent of spaces should have active charging facilities, with passive provision for all remaining spaces.
- D Outside of the CAZ, and to cater for infrequent trips, car club spaces may be considered appropriate in lieu of private parking. Any car club spaces should have active charging facilities.
- E Large-scale purpose-built shared living, student accommodation and other sui generis residential uses should be car-free.
- F The provision of car parking should not be a reason for reducing the level of affordable housing in a proposed development.
- G Disabled persons parking should be provided for new residential developments. Residential development proposals delivering ten or more units must, as a minimum:
 - 1) ensure that for three per cent of dwellings, at least one designated disabled persons parking bay per dwelling is available from the outset
 - 2) demonstrate as part of the Parking Design and Management Plan, how an additional seven per cent of dwellings could be provided with one designated disabled persons parking space per dwelling in future upon

request as soon as existing provision is insufficient. This should be secured at the planning stage.

- H All disabled persons parking bays associated with residential development must:
- 1) be for residents' use only (whether M4(2) or M4(3) dwellings)
 - 2) not be allocated to specific dwellings, unless provided within the curtilage of the dwelling
 - 3) be funded by the payment of a commuted sum by the applicant, if provided on-street (this includes a requirement to fund provision of electric vehicle charging infrastructure)
 - 4) count towards the maximum parking provision for the development
 - 5) be designed in accordance with the design guidance in BS8300vol.1
 - 6) be located to minimise the distance between disabled persons parking bays and the dwelling or the relevant block entrance or lift core, and the route should be preferably level or where this is not possible, should be gently sloping (1:60-1:20) on a suitable firm ground surface.

Table 10.3 - Maximum residential parking standards

Location	Number of beds	Maximum parking provision*
Central Activities Zone Inner London Opportunity Areas Metropolitan and Major Town Centres All areas of PTAL 5 – 6 Inner London PTAL 4	All	Car free~
Inner London PTAL 3	All	Up to 0.25 spaces per dwelling
Inner London PTAL 2 Outer London Opportunity Areas	All	Up to 0.5 spaces per dwelling
Inner London PTAL 0 – 1	All	Up to 0.75 spaces per dwelling