

10.3 Infrastructure Delivery Plan

- 10.3.1** Infrastructure is required to support new development within the Borough through the Plan period to ensure that communities are sustainable. The requirement for local authorities to assess quality and capacity of infrastructure, as part of the Local Plan process, is identified in the National Planning Policy Framework. The suggested broad categories are physical, green and social infrastructure.
- 10.3.2** In preparing this Local Plan, the Council has been in liaison with a range of infrastructure providers to determine long term strategic infrastructure needs which would result from the level and distribution of planned growth within the Borough. This has resulted in an Infrastructure Delivery Plan (IDP), which sets out in full how infrastructure to support the levels of development set out in this plan will be provided, and the IDP is on the Council's website. An Infrastructure Delivery Schedule (Figure 10.2) derived from the IDP is included here, and summarises the key infrastructure projects which will be required to support the level of proposed growth. These have been identified through this process of consultation and liaison with internal departments and external organisations. This schedule sets out the project, the need for it, requirements, costs, funding, timescales and who has responsibility for delivery.
- 10.3.3** The majority of housing development will occur on brownfield sites and represent 100 dwellings or less. Therefore, in most cases there will not be the requirement for significant infrastructure on a site by site basis. The infrastructure schemes will be strategic in nature, serving the impacts of growth from groupings of sites. Where there is need for site specific infrastructure, this will be addressed and negotiated at the detailed planning stage. The Infrastructure Delivery Schedule identifies key infrastructure requirements for major sites that are known at this time.
- 10.3.4** A range of different infrastructure requirements have been reviewed in the IDP report, but only infrastructure needed to support sustainable growth has been identified within the delivery schedule in Figure 10.2. These include core transport projects, health provision, additional capacity for primary and secondary education places, community and youth provision and additional neighbourhood police infrastructure. The IDP will be a 'living' document; a snapshot in time, based on the best available information at this time. This will need to be updated as and when further information becomes available.

Figure 10.2: Summary Infrastructure Delivery Schedule

LOCATION	SCHEME	NEED FOR SCHEME	SCHEME REQUIREMENTS	CAPITAL COST AND FUNDING	TIMESCALES (where known)	LEAD DELIVERY AGENCY
PHYSICAL						
	Cycle Hire	Encouraging active travel and promoting an alternative to car use	Operation, maintenance and expansion of publicly available bike hire scheme	Unknown–LTP block grant, S106	Ongoing	Reading Borough Council (RBC)
	Cycling Strategy	Encouraging active travel and promoting an alternative to car use	Local measures to encourage cycling routes, lighting, cycle parking, etc.; new areas of development to be connected to existing network	Unknown–LTP block grant, S106	Ongoing	RBC
	Major Repair and Improvement Projects	Improving and maintaining existing infrastructure	Continuous maintenance and improvement of existing facilities and infrastructure including retaining walls, culverts, subways, footbridges and flood defence schemes	Unknown–LTP block grant	Ongoing	RBC
Borough-Wide	Mass Rapid Transit (MRT) Schemes	Providing alternatives to car use and encourage sustainable transport use; reduce congestion; improve accessibility and air quality	Dedicated express, limited stop bus-based rapid transit connected to Park and Ride locations; focused in key areas of growth and key routes in urban areas	Approx. £100,000,000–LTP block grant, LGF	2018-2036	RBC
	National Cycle Network Route 422	Increase connectivity and the National Cycle Network, encourage uptake of cycling	East-west national cycle route with shared use facilities & cycle routes; improvements of existing infrastructure & links; new facilities	Approx. £1,100,000–LTP Growth Deal, S106	2016-2018	RBC
	Network Management, Junction Improvements and Road Safety	Increase attractiveness of public transport, reduce congestion, promote sustainable travel and improve road safety	Improvements to existing infrastructure and enhanced provision	Unknown–LTP block grant, S106	Ongoing	RBC

	Park & Ride Sites	Reduce the mode share of trips by car to central Reading, thereby reducing congestion and improving accessibility and air quality	A series of new Park and Ride sites and local transport interchanges will be provided on key routes to Reading	Approx. £19,000,000 - S106, LTP, LGF	2018-2036	RBC, adjoining authorities
	Public Transport and Enhancements	Increase attractiveness of public transport, reduce congestion, promote sustainable travel, improve accessibility and air quality	Improvements to existing public transport infrastructure and provision enhancement including bus stops, bus lanes, bus priority at junctions	Unknown – LTP block grant, S106	Ongoing	RBC
	Third Thames Crossing	Reduce congestion	Provide alternative north-south route across the River Thames via a new road bridge	Approx. £109-165,000,000, depending on option – LGF (not including any mitigation measures on road network)	2020-2036	Wokingham, RBC, Oxfordshire, South Oxfordshire
	Walking Strategy	Encouraging active travel and promoting an alternative to car use	Local measures to encourage walking; new areas of development to be connected to existing pedestrian networks; improve walking route, pedestrian crossings, lighting and accessibility	Unknown – LTP block grant, S106	Ongoing	RBC
	Borough-Wide	Decentralised Renewable Energy Site	To reduce the carbon footprint of the Borough, and reduce and stabilise energy costs, through the development of low carbon, localised energy infrastructure, to reduce the dependency on fossil fuels and assist in meeting local and national targets for reducing CO ₂ emissions, in line with global action to avert severe climate change.	CII, Section 106	Ongoing	RBC

<p>To ensure sufficient capacity to accommodate future growth</p> <p>Water and wastewater</p>	<p>There are a number of areas within the Borough including some parts of west and south Reading where Thames Water has identified potential capacity issues with water and wastewater, in particular with the overall scale of development in the catchment draining to Blakes Lock SPS. For these areas, detailed investigation and modelling will be required to determine if a local infrastructure upgrade is required.</p> <p>Borough-Wide</p>	<p>Costs to be determined by Thames Water with developer</p> <p>To be confirmed as and when a development comes forward and where issues have been highlighted by Thames Water. Thames Water has indicated that upgrades to assets can take up to 3 years lead in time.</p>	<p>Thames Water and relevant developer</p>
		<p>Implementation of broadband infrastructure to 24mb wherever possible; ensure a minimum superfast infrastructure for 98% of properties by 2019; private sector is developing fibre based gigabit solutions</p>	<p>£192,000 RBC capital funding; private funding from a variety of providers</p>
		<p>In order to accommodate development as proposed in the central area major reinforcement works to the 13200 and 33000 volt infrastructure would need to be carried out. Large amount of cables and plant which, may require diverting and relocating as a result of development designs and layouts.</p>	<p>Costs to be determined by SSE chargeable to developments on an apportionment basis and major extension to the 11000 volt and low voltage networks, which is fully rechargeable to the developments</p>

	Air Quality Monitoring	To assess the levels of pollutants at hotspot locations where further development is likely to worsen air quality	NOx analyser, enclosure and associated infrastructure	£70,000 - Section 106, DEFRA Air Quality Grant	Ongoing	RBC
South	Green Park Station Multi-Modal interchange	Reducing congestion and improving sustainable travel options to major employment sites and future housing development	A new train station and multi-modal interchange at Green Park on the Reading-Basingstoke Line with enhanced facilities	Approx. £16,000,000	2018-2020	RBC, Network Rail, Great Western Railway
	South Reading MRT	Providing alternative modes to car use and encourage sustainable transport use; reduce congestion; improve accessibility and air quality	Dedicated express, limited stop bus-based rapid transit connected to Mereoak Park and Ride, areas of growth and key routes in the urban area	Approx. £55,000,000 – LGF, S106	2016-2020 (phases 1-4); further phases subject to funding	RBC
	Cow Lane Improvements	Allow freight, public transport and sustainable modes to use this strategic route to central Reading and remove a major bottleneck	Remove major bottleneck caused by restricted height and width at Cow Lane	Unknown	2018-2020	Network Rail, RBC
	Low Emission Zone	Improve air quality	Unknown	Unknown – LTP block grant, S106	Unknown	RBC
	Reading West Station Upgrade	Facilitate current and future passenger numbers, improve accessibility and step-free access	Improve standard of passenger waiting facilities and platforms; increase bike parking; provide step-free access with two lifts on either side of the footbridge; improved ticket vending machines and low ticket counter window	Approx. £3,500,000 – LGF, S106	Unknown	RBC
Central/ East		Reducing the impact of congestion; delivering a higher quality public realm; encouraging healthier lifestyles; improving access to central Reading	Junction improvements; accident remediation scheme; improved way finding	Unknown – LTP block grant, S106, BID	Ongoing	RBC

Central/ East	East Reading MRT	Providing alternative modes to car use and encourage sustainable transport use; reduce congestion; improve accessibility and air quality	Dedicated express, limited stop bus-based rapid transit connecting Reading town centre/Reading Station and TfP Park and Ride along key commuting corridor	Approx. £24,000,000 – LGF, CIL	2018-2021	RBC, Wokingham
	TfP Park and Ride	Reduce congestion and improve accessibility and air quality	New Park and Ride site in the vicinity of Thames Valley Park Business Park	Approx. £3,600,000 – LGF, S106	2017-2020	Wokingham, RBC, Oxfordshire, South Oxfordshire
GREEN INFRASTRUCTURE						
	Thames Parks Plan	To increase the capacity of these regionally important parks to accommodate the outdoor/leisure recreation needs of the expanding population and to protect and enhance ecological value.	Physically link the eight Thames Parks creating a chain of quality green space with high amenity, ecological and landscape value.	£5,000,000 (est.) - S106, other funding sources being sought	From 2017 onwards	RBC
	Open Spaces Strategy	Improve the quality of existing public open space and facilities particularly in larger parks to benefit the wider population.	Improvement to strategically important open-spaces.	£2,000,000 Dependent on receipt of grant funding and/ or S106 contributions	Ongoing	RBC
	Green Infrastructure/ Access to Open Space	To develop green infrastructure network and links, including along watercourses.	Linking existing green links, and formalising off-road routes between parks, with signage and surfacing.	Unknown	Ongoing	RBC
	Play Requirements	Most of the current stock of play equipment is more than a decade old. At current levels of use, this is declining; an increasing population accelerates the rate of decline, so that equipment needs continually to be refreshed.	When deemed a Health & Safety liability with over-use, it needs to be replaced or removed. Continuous investment is needed simply to sustain the existing provision. Because many of the Council's 55 play areas are used to capacity, increases in the local population require increases in equipment; needs to be upgraded with technological advances to sustain the interest of children of all ages.	£3.2 million dependent on receipt of grant funding or CIL/ S106 contributions	2017-2027	RBC
Borough-Wide						

Biodiversity Plan	To protect, enhance and increase biodiversity in parks, open spaces, allotments, cemeteries, woodland, watercourses, riparian corridors and wetland areas	Reading's Biodiversity Plan identifies a number of actions including: enhancing and increasing habitats for plants and wildlife; creating links between existing habitats; increasing plant diversity across grassland open spaces; improvement and additional planting of hedgerows; improving diversity of tree species in woodlands; improving and enhancing the Borough's watercourses and riparian corridors.	£375,000	2017 - 2027	RBC
Borough-Wide	Allotment Creation & Enhancement	Ongoing development pressure on existing private allotments. Very long waiting lists for allotments, which will be exacerbated by additional growth	To improve allotment provision within the Borough (especially in the North and West)	Dependent on funds becoming available or on a development opportunity making land available	Ongoing requirement
South	John Rabson Recreation Ground and the Cowsey	Public open space improvements within a deprived area; This is the only park in South Reading which has been identified as being a sufficient size to develop as a Neighbourhood Park with varied facilities and providing a range of experiences. Grass pitches suffer from waterlogging reducing availability and effectiveness.	Extend range of sports facilities and support more intensified use; landscaping and additional facilities as resources become available	£500,000 Further phases dependent on receipt of additional grant funding or S.106 contributions	2017 onwards
Central/East	Kenavon Drive and surrounding open space provision	To create and improve links with adjacent open space and the town centre.	Enhance recreational / open space that serves this area; Increased levels of residential accommodation require broader range of facilities capable of sustaining increased levels of use.	£1,000,000	2017 onwards
Christchurch Meadows	Increase capacity and quality of facilities to cater for increased growth in population and demand.	Enhance sports facilities including team sports, tennis and update leisure facilities	£500,000	2017 onwards	RBC

SOCIAL AND COMMUNITY					
Updating and improving Reading's indoor sports provision	Create high quality leisure venues to encourage and support greater levels of physical activity by Reading residents.	Reprovide Arthur Hill Swimming Pool at Palmer Park Stadium, Central Swimming Pool within town centre catchment and refurbish/extend Meadoway and refurbish other indoor sports centres to provide activities reflecting modern needs and demands. Ensure facilities support increased activity and health initiatives.	Unknown-- Potential-Sport England, New Opportunities Fund, RBC, Capital funds from sale of land	2017 - 2022	RBC
Police Facilities	To make communities safer, increase public confidence, reduce costs by improving efficiency, improve service delivery and improve outcomes for victims of crime, as well as to aid in the prevention and investigation of crime with ANPR cameras.	Premises - New police station in South Reading, touchdown space in central Reading and potentially other areas.	Unknown, ANPR is £11,000/ camera	Ongoing	Thames Valley Police
Borough-Wide	Townsafe and CCTV	Digital Policing Program including smartphones, tablets, body-worn video, vehicle wifi and other new capabilities, including enhanced and new ANPR cameras at strategic locations within the Borough.	Updates to CCTV infrastructure in the future; initial investment to provide Townsafe radios to new businesses throughout the borough	Section 106, CIL	Medium to long term
Extra Care Housing	To update aging CCTV infrastructure in the town centre and continue expansion of the Townsafe radio program	Delivery of extra care housing provision, mental health accommodation, learning disability friendly provision	Not known at this time	Ongoing	RBC, HA partners
Primary Education	Dated existing provision and providing more options for an ageing population to reduce the demands on other care services	Moorlands Primary School expansion from 1FE to 2FE by Sept. 2019; additional primary places needed in the north and centre in shorter term, and in the south in longer term.	Education Funding Authority, CIL, Section 106	Ongoing	RBC

			Required by 2021	RBC
Secondary Education	To provide sufficient secondary school places to accommodate Reading's growing population.	Need for additional 9 forms of entry to 2026, comprising: <ul style="list-style-type: none"> One new 6FE secondary school, preferably close to town centre - site identification process underway; Expansion of existing schools to provide 3 forms of entry. 	Education Funding Authority, CIL, Section 106	Clinical Commissioning Groups, NHS
Healthcare	Additional capacity at existing surgeries and new surgeries associated with major development (particularly in the north, centre and south); Additional A&E and Maternity capacity is expected to be needed at the Royal Berkshire Hospital	Identifying and securing sites for new surgeries on major residential developments; expanding existing surgeries in line with CCG estate and staffing strategies; expansion of A&E and Maternity facilities	CIL, Section 106	Ongoing
Borough-Wide	Postal Services	Additional capacity for universal postal services.	Royal Mail	Royal Mail, RBC to keep RM updated of scale and timing of development