

# Stratford-on-Avon District

# **Draft Infrastructure Delivery Plan**

(to form Appendix 1 of the Core Strategy)

OCTOBER 2013

## **Draft Infrastructure Delivery Plan**

## 1. Introduction

This Infrastructure Delivery Plan (IDP) sets o ut the main infrastruct ure items ne cessary to facilitate the level and di stribution of growth set out in the C ore Strategy. It also identifies other items of infrastructure necessary to achieve the plan's wider objectives and those of its partners.

A Schedule of Infrastructure Projects is provided in the table at the end of this section. This describes in dividual projects, where these are known, and broad descriptions of the type of infrastructure that might be needed where individual projects have not been ident ified. Where the infrastructure is essential to support the growth outlined in the Core Strategy, it is shown as 'critical' on the Schedule.

Physical infrastructure that will be delivered on site as a normal part of a development, and that will be paid for by the developer as a normal part of development costs, is not generally included in this IDP. The infrastructure ite — ms shown — will generall y be financed through developer contributions (S106 and the Community Infra — structure Le vy), as well as through — the capita I programmes of the District Council, County Council, their key partners and other agencies.

Similarly, small local projects that will be determined by Town and Parish Council's through the Neighbourhood Development Plan process are not identified in the IDP. They may, however, be indirectly funded by the Community Infrastructure Levy (CIL), via the proportion of the levy that is passed to Town and Parish Councils.

Two further documents will be produced as background evidence for CIL:

- A more highly costed do cument which seeks to demonstrate that there is a funding gap and therefore a rationale for introducing CIL; and
- A draft Regulation 123 list which sets out details of which items of infra structure will be funded through S106 and which will be funded in whole or part through the levy.

## 2. Transport Infrastructure

Work to identify the transport infrastructure required as part of the Core Strategy has been led by Warwickshire County Council a s the Local Hig hways Authority. It dra ws upon the Stratford on Avon District Strategic Transport Assessment completed by Warwick shire County Council in October 2012; the Strategic Transport Assessment Phase 2 Modelling Report, WCC/Arup (June 2013); the Local Transport Plan for Warwickshire (2011-2026) and other sources.

Infrastructure improvements identified include highways infrastructure, public tran sport and o n and off road pedestrian and cycle routes. Some schemes are critical to enable the development of specific sites – these are generally to be p rovided by t he develop er either as part of the development using S278/S38, or as an asso ciated planning obligation secured t hrough S106 (for example as part of the potential new settlement at Gaydon/Lighthorne Heath or the Stratford Regeneration Zone). Other projects such a s the package of measures referred to as the Town Centre Initiatives will be wholly or partly CIL funded as they will deal with the cumulative impacts of development across a number of sites.

The transport infrastructure required to 2028 a lso includes some strategic schemes of regional or sub-regional significance such as the upgrading of the Shakespeare L ine (led by Centro) and improvements to the A46(T) and M4 2, led by the Highways Agency. Some contribution may be sought from developers but these projects will be mostly delivered with external agency funding.

Other public transport projects will be determined as pla ns evolve d uring the Core Strategy period, especially the detail of public transport provision in conjunction with a new settlement or sustainable urban extension.

The IDP also includes enhanced pedestrian and cycle routes in Stratford at Birmingham Road/Guild Street and a number of fairly minor cycle infrastructure improvements to help deliver the Cycle Strategy within the Local Transport Plan. As with highways infrastructure, the creation of new or enhanced pedestrian and cycle links will ge nerally be funded as part of the development package where they relate to specific si tes, or with a contribution from CIL if the y deal with the cumulative impact of a number of developments.

Community transport initiatives and other local projects may be identified in Neighbourhood and Parish Plans and may secure a share of CIL funding indir ectly from Town and Parish Councils. These small local projects are not identified on the IDP.

Local pede strian and cycle links, including off-road sche mes that improve access to or the amenity value of open space, will generally either be nego tiated as part of a S106 package in lieu of on-site open space contributions (if the need can be linked to a particular development), or they will be identified through the Neighbourhood Development Plan process.

## 3. Education

The relative ly dispersed pattern of growth outlined in the Core Strategy will help ensure the continuing financial viability of man y small villa ge schools that currently have declining pupil numbers. Any proposals for new housing in the main rural centres will present some challenges in terms of providing school places but these can be overcome with investment in existing schools.

It is potentially more difficult to accommodate an increase in pupils within Stratford-upon-Avo n where there is currently little spare capacity. In addit ion to the pro posed development at Shottery, which would provide a new prima ry school and a financial contribut ion towards secondary provision, a significant a mount of de velopment is proposed in the Core Strategy at the Stratford Regeneration Zone. This will also require the provision of additional primary and secondary places which will be delivered either through the expansion of existing schools or the development of new ones.

A new settlement or sustainable urban extension would include one or more n ew primary schools and a financial contributio n (and most likely a n ew site) to wards secondary school provision. Any new secondary schools would also be expected to attract Academy Funding.

Whilst there remains a high level of uncertainty over how schools will meet education needs over the next 15 years, a list of potentia. I new sc hools and those schools likely to need expanding, and an initial estimate of the overall costs involved is provided in the Schedule of In frastructure Projects.

## 4. Primary and Acute & Community Health Care Infrastructure

## 4.1 Primary Care

Reorganisation of the NHS means that the impact of the growth outlined in the Core Strategy on the delivery of primary health care cannot be a ssessed at the current time. It is u nderstood, however, that the following medical centres already have capacity issues which would be compounded by further development unless new premises were built or existing premises enhanced:

- Bidford Health Centre
- Fenny Compton Surgery
- Henley -in-Arden Medical Centre
- Pool Medical Centre, Studley
- Shipston Medical Centre
- Southam Surgery and
- Trinity Court Surgery, Stratford-upon-Avon.

There would also need to be a new medical cent reat a new settlement or su stainable urban extension.

It is unli kely that the District Council will put CIL money into meeting primary care needs a s these are provided by GPs on a commercial basis. However, it is important that needs are understood so that lan d can be made available for this purpose as site s co me forward for development. Furthermore, should any community health function be co-located with the primary care facilities, these may be entitled to a cross-subsidy from development via S106 or CIL.

## 4.2 Acute and Community Health Services

The South Warwickshire NHS Foundation Tru st (SWFT) is the major provider of acute and community health services to the population of South Warwickshire providing a range of planned and emergency services to patients from sites across War wick and Stratford-on-Avon Districts. These are:

- Warwick Hospital This site houses the majo rity of the T rust's Acute Services in cluding; Accident and Emergen cy services, Diagnostic and Pathology depart ments, Mat ernity and SCBU (Special Care Baby Unit), Main and Day Surgery Theatres together with an Intensive Care Unit and Coronary Care Unit.
- Stratford-upon-Avon Hospital This is one of the Trust's community hospitals and it includes a minor injuries unit, outpatients department, radiology department and an intermediate care ward.
- Royal Lea mington Spa Rehabilitation Hospital This site offers rehabilitation services to adults and includes a Neuro-rehabilitation Unit together with a number of outpatient services.
- Ellen Badger Hospital This co mmunity ho spital has a 26 bedded ward which offe rs rehabilitation to patients to enable them to re turn to the community. In addition , a Da y Hospital o perates, which offers continuing rehabilitat ion and h elp with medicines management and reduced mobility. Due to its rural location , some out-patient appointments are also offered.

In addition, the Trust's community services teams operate out of a number of clinics, some of the larger ones include Saltisford House, Cape Road Clinic and the Orchard Centre.

Over the past 2 years the Trust has made good progress in establishing out-of-hospital services and pathways to deliver care closer to pat ients' homes to avoid unnecessary hospital admissions and shorten stays in hospital. These changes have enabled the Trust to make bette r use of hospital capacity. However, there are now limited opportunities to further improve hospital capacity util isation. This means the at additional healthcare infrastructure will be needed to support future population growth.

SWFT has explored the impact of the level of growth outlined in the Core Strategy on community and acute health services' infrastructure (Infrastructure Requirements for South Warwickshire NHS Foundation Trust to Meet Projected Demographic Growth – 2008 – 2028 (June 2013)). It has developed a capacity modelling tool to assess the impact of different population and service delivery scenarios. The model focuses on the healthcare needs of the new population that will come forward as a result of the Core Strategy, rather than the existing population who will have

aged and increased t heir healthcare needs over the d uration of the Plan. Two growth assumptions have been modelled:

- 9,500 dwellings with an associated population increase of 14,500 (the Core Strategy growth 2008-2028); and
- 4,500 dwellings with an associated population increase of 6,900 (the estimated amount of growth likely to come forward during the plan period, once CIL is in place).

The acute and communi ty healthcare needs of 9,500 dwellings will generate hospit al demand equivalent to 4,200 ad missions per year by the end of plan period and 19,00 0 outpatient appointments. This will require about 32 acute hospital be ds, 4 outpat ient clinics, associated diagnostic and intervention facilities, maternit y and support service infrastruct ure. This is estimated to cost around £17 million. Until CIL is adopt ed, SWFT will seek a contribution towards Acute and Community Care from large sites through S106 agreements.

The acute and community healthcare needs of an additional 4,500 dwellings (i.e. post CIL) will generate hospital demand equivalent to 2,500 admissions per year by the end of the plan period and 12,000 outpatient appointments. This will require about 19 acute hospital beds, 3 outpatient clinics, a ssociated d iagnostic and intervention facilities, maternity and support service infrastructure. This is estimated to cost around £10 million.

SWFT proposes meeting these infrastructure requirements through two development projects:

- 1. A new ward block at the Warwick Hospital site the main acute hosp ital services site; and
- 2. A new hosp ital at the S tratford Hospital site including outpatient, diagnostic, treatment and inpatient facilities and a hub for community healthcare teams.

SWFT expect to borrow to raise the primary funding for bot h projects. They also expect to raise charitable donations towards the projects and will request a CIL contribution from Stratford and Warwick District Councils to reflect the additional demands on healthcare arising from growth in housing.

## 5. Green Infrastructure, Public Health, Open Space, Play & Built Recreation

## 5.1 Introduction

The green infrastructure package put forward in the Sche dule of Infra structure Projects has a number of purposes:

- To enhance ecology and biodiversity;
- To address climate change;
- To foster health and wellbeing through participation in sports and recreation;
- Related to this, to encourage active ageing; and
- To improve public access to open space.

## 5.2 Biodiversity

The Warwickshire Coventry and Solihull Local Biodiversity Action Plan (LBAP) identifies the costs of achieving the LBAP habitat requirements to 2026. The figures cover the costs of creating, restoring and enhancing habitats across the District to meet LBAP targets at £792,000 per annum.

It is further estimated by Warwickshire County Council (Ecology) that around 90% of the £792,000 will be de livered through partners, including agri-environment schemes, Environment

Agency schemes, biodiversity offsetting and public open space provision and enhancement delivered through S106.

This leaves a deficit of £79,200 per annum to deliver local green infrastructure needs. These will predominately be identified in Neighbourhood and Parish Plans and be funded by Town an department of Parish Councils' CIL receipts and other sources.

## 5.3 Open Space Strategy and Active Communities Strategy

Open space and active communities infrastruct ure proposed in this ID P is underpinned by the District Council's Open Space Str ategy and Active Communities Str ategy and is in line with guidance from Sport England, Fields in Trust, Natural England and CABE.

Future development and associated population growth will create a need for new and improved public open spaces including urban and village green infra structure (e.g. street tre es, pocket parks) and improved access to the countryside. There will also be a need for new and improved indoor and outdoor sport and recreation facilities to support the health and wellbeing agenda of an increase d population, including measures to improve levels of physical activity, mental wellbeing and social inclusion.

In addition the manage ment of ope n spaces and recreational facilities will need to change to mitigate and adapt to climate change, including facilitating community food production (reducing air miles on food), planting drought and flood resistant species, planting to reduce surface water run-off and the introduction of water efficiency measures and low carbon energy usage at leisure facilities across the District.

The Schedule of Infrastructure Projects includes an indicative list of projects to achieve the aims and objectives of the Open Space and Active Communities Strategies.

## 6. Emergency Services

## 6.1 Police

This section is based on a paper from Warwickshire Police: Stratford-on-Avon Infrastructure Delivery Plan - Policing Infrastructure June 2013 which draws on an earlie republication: Warwickshire Police Authority Policy and Guidance on Developer Contributions.

Policing infr astructure includes veh icles, I T and communi cations, off icer equipment, custod y facilities, buildings and fixtures, plus all manner of other items from traffic connected historian surveillance equipment. Patterns of crime and disorder change and, accordingly, policing services must be flexible to changing demands. For this reason it is not useful to try and identify exactly what policing infrastructure will be required into the future. It is however reasonable to expect that the most important infrastructure will enable mobility and communications i.e. the bulk of future policing infrastructure spending will relate to IT systems and equipment, plus vehicles. New police buildings will not be the norm.

The proportional cost of providing new policing infrastructure equates to £566 per new home, or £396 per dwelling where 'Secured by Design' is incorpor ated into the new building. The total proportional increase in the required policing infrastructure is therefore £5.37m when related to the proposed housing growth of 9,500 in Stratford District between 2008 and 2028, reducing to £3.76 m with Secured by Design.

Until CIL is adopted, Warwickshire Police will continue to seek contributions through S106. In this respect, for the 5,0 00 new ho mes expected before CIL, the total 'Section 106' developer contribution request will be £2.83m (reducing to £1.98m if Secured By Design is incorporated in

every development). The total CIL request for the estimated remaining 4,500 new h omes will be up to £2.55m (reducing to £1.78m if Secured By Design is adopted in every development).

Where there is a large concentration of new homes, as in the case of the new settlement at Gaydon/Lighthorne Heath, Warwickshire Police will review the existing structure of Neighbourhood Policing and evaluate whether a new Safer Neighbourhood Team (SNT) needs to be set u p. Where a new team is required there will be a need for a Safer Neighbourhood Office and Warwickshire Police would see k an arrangement via developer contributions to provide this. This is estimated to cost around £ 100,000. Warwickshire Police would be keen to explore the possibilities of multi-agency / shared service provision.

## 6.2 Warwickshire Fire and Rescue Service

The current objectives of the Warwickshire Fire & Rescue Service are to:

- Reduce the incidence of fires;
- Reduce loss of life in fires and accidents:
- Reduce the number and severity of injuries from fires and other
- emergencies;
- Safeguard the environment and protect the national heritage; and
- Provide communities with value for money.

In new developments these objectives would be supported by the provision of fire hydrants, sprinklers and smoke detector alar ms. Consultation is on-going with the Fire & Rescue Service to determine how this should be taken forward.

## 7. Water and Utility Services

## 7.1 Water Supply and Waste Water

Over most of the District, Severn Trent Water (STW) is responsible for water supply, the foul drainage ne twork and wastewater treatment. A very small part of the district is covered by Thames Water.

Every five years each water company is obliged to pub lish a 25 y ear 'Water Resources Management Plan' setting out its ove rall strategy. STW are currently developing a plan to cover the period 2015-2040 that will be finalised in 2014. STW's current plan covers the period 2010 – 2035 and aims to:

- Reduce water demand by cutting leakage, encouraging household metering and increasing water efficiency;
- Improve su pply resilie nce by investing in a queducts, a quifer stora ge and recovery, providing new groundwater sources and improving the supply network; and
- Improve water quality by treating nitrates and preventing loss of deployable output due to worsening water quality.

Under the Flood Wate r Management Act (20 10), new development will no I onger have the automatic right to connect surface water drainage to sewers. This, combined with wat er efficiency measures and metering of all new development, will reduce the new net burden on the wastewater network and at the treatment works (WwTWs).

Within the District there is generally capacity in the waste water treatment works to deal with the proposed level and distribution of growth set out in the Core Strategy. However, some works will require investment and development will need to be phased accordingly. STW request that they are consult ed at an e- arly stage of development proposals. Those WwTW likely to need

upgrading during the Core Strategy period are listed in the Schedule of Infrastructure Projects. Some upgrading of the foul drainage network will also be required.

Site based infrastructure and network connections for water supply and collection of waste water will be provided by developers. STW will generally meet the cost of any upgrades to water supply and foul drainage networks and waste water treatment facilities.

The water supply network is only likely to need significant upgrading in relation to a ne w settlement or sustaina ble urban extension. Discussions will continue with the potential developers of a new settlement as the implications of adding a new settlement to the rural water supply and foul drainage networks are very significant.

STW analysis shows that the most significant risk to long term supply and water quality is the impact of climate change. Policies in the Core Strategy address water conservation and the appropriate use of Sustainable Urban Drainage Systems to reduce pressure on water supply and treatment works.

#### 7.2 Flood Risk Assessment and Flood Alleviation and Defences

## **River Flood Management**

The Environment Agency is the lead agency on management of river flooding. Almost the entire district is covered by the River Severn Catchment Flood Management Plan (CFMP) with just the north west corner falling into the Trent's catchment. The CFMP is a high level document produced by the Environment Agency with strategic policies designed to plan flood risk management in the catchment over the next 50-100 years. The CFMP for the River Severn was published in September 2008.

The River Avon runs thr ough the District. Existing settlements are located within existing Flood Zones 2 and 3 and are therefore already at risk from fluvial flooding. The Core Strategy specifies that new development must not increase risk to existing development.

Support will be given to flood alleviation mea sures under considerati on by the Environment Agency by safeguarding possible sites for storage and oth er channel works where necessary. The Environment Agency is currently planning flood alleviation works in Ship ston-on-Stour, Henley-in-Arden and along the Racecourse Brook in Stratford.

The works in Shipston-on-Stour (e stimated to cost £500-800k) would benefit the heart of the town, mainly the Church Street, Mill Street, West Street and Telegraph Street area. The works in Henley-in-Arden would benefit the High Street/Beaudesert Lane and Prince Harry Road area and would cost approx imately £800k-£1.2m. Whilst the se schemes would offer protection to existing properties they would also significantly reduce the risk of flooding of central areas. This would encourage regeneration of currently disu sed units as well as openning up additional areas for commercial and residential development.

The Environment Agency is also planning an alleviation scheme along the Racecourse Brook to the north-west of Stratford-upon-Avon. This will provide additional stora ge to protect commercial and residential properties against f looding on the eastern side of Birmingham Roa d (including Tesco and land to the n orth west of that site). Adjacent fields in the up stream catchment have been identified as a potential location for the storage. This project is anticipated to cost approximately £750-900k.

The main sources of funding for these projects are likely to be the Environment Ag ency's Flood Defence Grant in Aid (FDGiA) and Local Levy, contribut ions from local busine sses and land owners, and Severn Tre nt Water for the scheme on the Racecourse Br ook. CIL or S106 could also contribute to the cost of works where they facilitate growth.

Level 1 Strategic Floo d Risk Asse ssments (SFRAs) provide information on current and future flood risk fr om all sources, taking into account climate change. They are designed to enable decision makers to allo cate development and infrastructur e where risks are minimised. They also seek to identify where flood alleviation measures are required to protect existing properties. Stratford District is currently reviewing its flood risk assessment and will do so ap proximately every five years to ensure that the risks are properly understood. A contribution may be sought from CIL for this purpose.

## **Surface Water Flood Management**

As surface water flooding is a kn own issue in Stratford-on-Avon Di strict, a Su rface Water Management Plan is r equired to enable opp ortunities to reduce existing risk t hrough new development to be maxi mised. This is the responsibility of Warwickshire County Council as the Lead Local Flood Authority.

Some areas suffer from surface water flooding from artificial drainage, surface water and field runoff, particularly at times of hea vy and prolonged rainf all. The Co re Strategy locates ne w development in areas of lowest flood risk and specifies that new development must not increase risk to existing development. Contri butions maybe sought from strategic sites to contribute to flood risk management facilities where there is flooding downstream of a development.

Under the Flood Wate r Management Act (20 10), new development will no I onger have the automatic right to connect surface water drainage to sewers. Developers will be re quired to put Sustainable Drainage Systems (SUDS) in place in new developments. These should ensure that the effect of surface water runoff is consistent with green field rates on green field sit es and that run off rates are attenuated on brownfield sites, as required by the Environment Agency.

Further detail is provided in the Warwickshir e Sub-Regional Water Cycle Study, Halcrow 2010 and the Water Cycle Study Update, URS, 2012.

## 7.3 Electricity, Gas and Renewable/Low Carbon Energy

## **Electricity**

National Grid owns, maintains and o perates the electricity transmission network in England and supplies energy from g enerating stations to local distribution companies. The lo cal distribution company in Stratford on Avon District is West ern Power distribution. It is their rolle to provide electricity to homes and businesses.

Western Power Distribution has stated that the electricity distribution networks can cope with the scale of gro wth predicted in the plan. They wo uld wish to be consulte d, however, at an early stage, on the development of any strategic sites.

On any individual site, connection to the network is the responsibility of the developer.

Policies in the Core Strategy aim to impro ve energy efficiency and encourage the use of renewable energy, thereby reducing pressure on the grid.

#### Gas

National Grid owns and operates the gas distribution networks through which gas is transported to users. It also is the gas supplier in the West Midlands. It has reported that it could cope with the scale of growth predicted in the Core Strategy.

On any individual site, connection to the network is the responsibility of the developer.

## Renewable and Low Carbon Energy

Policy CS.2 Climate Change and Sustainable Energy encourages the development of renewable and low carbon energy infrastructure.

The mechanism of 'Allo wable Solutions', where by payment is made into a fund to offset carbon reduction targets that cannot be met on site, is potentially a signif icant source of funding for low and zero carbon energy projects. Work is ongoing within central Government to establish a definition of zero carbon and the scope, governance or implementation of Allowa ble Solution's Funds.

The District Council is committed to establishing an Allowable Solutions Fund for I ocal projects. It could top this up with CIL revenues, or Town and Parish Councils could contribute a share of their CIL monies, for individual projects that meet local priorities.

#### 7.3 Broadband

For the short to medium term, growth in broadb and services across the district will be realised through a combination of:

- Commercial expansion of 'next g eneration' b roadband services in the more densely populated areas; and
- participation in the Coventry Solihull and War wickshire Superfast Br oadband Project, supported by BDUK, which is wor king in part nership with British Telecom to roll out superfast broadband to those areas that are not commercially viable.

This project, commenced in March 2011 and running until December 2 015, aims to deliver the Government's 2015 targets, as se tout in the December 2010 strategy document, *Britain's Superfast Broadband Future*, that everyone should be able to access broadband at speeds of at least 2Mbps and that su perfast broadband (minimum 24 Mbps) should be available to 90% of premises in each upper tier authority. It is expected to exceed these targets to provide the following benefits:

- By 2016 all domestic and business premises will have access to broadband speeds of at least 2Mbps, with 91% of premises in the sub-region able to access superfast services;
- Improved a ccess t o br oadband in rural and non-rural areas for small and medium enterprises (SMEs) and citizens through the delivery of increased spee ds to more areas in the sub-regions;
- An opportunity for community grou ps and SMEs to develop broadband facilit ies further still on a "Big Society" basis if their areas are not fully covered by the proposals; and
- An enabling of E-service delivery across the public sector.

## 8. Other Social Infrastructure

## 8.1 Libraries

Discussions are on-goi ng with Warwickshire County Council abou t appropriat e developer contributions towards the library service.

A new library is like ly to be required if a new se ttlement is taken forward at Gaydon/Lighthorne Heath and this would be expected to be supported by a S106 payment from the developer.

Money may also be so ught from CIL to support commu nity libraries (to fund st ock and Eservices, for example) and to support the mobile library service. An initial estimate from WCC

based on Department for Culture, Media an d Sport (DCMS) guidelines, sug gested a CIL contribution of £127,000 might be appropriate over the Core Strategy period.

This figure needs to be reviewed as it relates to a growth of 9,500 dwellings, over half of which is likely to have received planning permission before CIL is in place. Until such time S106 contributions are sought on large sites and, even once CIL is in place, a new settlement may be expected to pay for a new library through a S106 agreement.

## **8.2 Community Centres**

A new sett lement or sustainable urban ext ension will require a community centre to be supported by a S106 agreement. This is likely to be co-located with other community facilities.

## **Schedule of Infrastructure Projects**

Note: Phase 1 = 2008/9 - 2012/3; Phase 2 = 2013/4 - 2017/8; Phase 3 = 2018/19 - 2022/23; Phase 4 = 2023/24 - 2027/28.

Costs are indicative only as schemes are not yet defined in detail

	I - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Stratford Town Centre Traffic Management and Junction Improvements (TCI). This includes the following indicative schemes:	wcc	Highways Agency, developers,	Lifetime of Core Strategy	£3.75m	CIL, other	Critical
(a) Evesham Road/Evesham Place roundabout – reconfiguration to a traffic signalised junction (indicative cost = £0.75m)		SDC				
(b) Bridgeway Gyratory – further co-ordinated traffic signalisation of Warwick Road/Bridgefoot and Bridge Street entry arms (indicative cost = £0.75m)						
(c) Alveston Manor junction – traffic signalisation to co-ordinate with the Bridgeway Gyratory scheme in (b) above (indicative cost = £0.75m)						
(d) Banbury Road/Shipston Road roundabout – traffic signalisation cooridinated with the Alveston Manor scheme in (c) above (indicative cost = £0.75m)						
(e) Grove Road/Rother Street – possible one-way options to reduce incidence of queues blocking back into other junctions (indicative cost = £0.25m)						
(f) Birmingham Road/Windsor Street – remodelling of existing roundabout (indicative cost = £0.50m)						

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Birmingham Road/Guild Street Traffic Management Scheme	WCC Dev	elopers, SDC		£2.0 m	CIL, WCC	Some critical
Short Term (next 5 years)  (a) Inbound slip lane into Tesco car park (developer funded)			Phase 2			
(b) Kerbside detectors at pedestrian crossings						
(c) Improvements to strategic and variable message signing						
(d) Pedestrian and cycle route improvements (not covered by SRZ)						
Medium Term (5-10 years subject to further feasibility assessment) (a) Justins Avenue and Maybird access improvements			Phases 3 & 4			
(b) Improved pedestrian crossings in Guild Street						
Improvements to Bishopton Roundabout	WCC High	ways Agency, SDC	Phases 3 & 4	£1.75 m	CIL, WCC, Highways Agency	Critical
Improvements to Shipston Road/ Clifford Lane Roundabout	WCC SDC		Phases 3 & 4	£0.75 m	CIL	Critical
Improvements to Shipston Road/Severn Meadows Road/ Trinity Way Roundabout	WCC SDC		Phases 3 & 4	£0.75 m	CIL	Critical

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
On and and off road pedestrian and cycle projects, including:  (a) minor cycle infrastructure improvements contributing towards delivery of the Cycle Strategy within Local Transport Plan 2011-2026;	WCC or landowner/ developer	SDC, Sustrans, WCC, landowner/ developer	Lifetime of Core Strategy	(a) £30,000	CIL (cumulative impacts and completing strategic routes);	Some critical
<ul><li>(b) Stratford Station to Rother Market pedestrian/cycle route enhancement;</li><li>(c) improvement of pedestrian and cycle environment along the Historic Spine;</li></ul>				(b) £30,000 (feasibility stage only) (c) n/a	S106/ part of development (S278/ S38) where related to specific sites	
(d) other projects to facilitate walking and cycling across the district				(d) n/a		
Stratford Regeneration Zone mitigation package, including:  (a) Enhanced pedestrian and cycle link on Birmingham Road & Alcester Road incl spurs to Masons Road and town railway station (section to the south of the canal falls within the site and so is part of the development package);  (b) Pedestrian/ cycle bridge across the canal  (c) Roa d/junction improvements	Developers	WCC, SDC	Phases 3 & 4	(a) + (b) pedestrian/ cycle links (incl canal bridge) estimated at £0.8 m  (c) n/a	S106/ part of development (S278/ S38)	Critical
Stratford Western Relief Road	Developer	WCC	Phases 2-4	£8.0 m	Part of development (S278/38)	Critical

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Transport and highways infrastructure for potential new settlement at Gaydon/Lighthorne Heath (NB. based on a new community of 5,000 dwellings):			Phases 3 & 4		Developer (S278/38 and S106); Highways Agency, bus	Most provision critical
<ul> <li>1. Strategic Highways Infrastructure</li> <li>(a) Managed Motorways – to mitigate the impacts of development on the M40 between J12 and 14;</li> <li>(b) New north bound (NB) slip onto the M40 at J12 from B4451 (may be replaced by an arrangement involving signalisation of the right turn from the B4451 south bound (SB) towards the M40 NB;</li> <li>(c) Introduction of signals at NB off-slip of J13;</li> <li>(d) Widening of the circulating carriageway and all approaches to the Fosse Way/A452 roundabout plus provision of 2 lane exit flares on the Fosse Way in both directions;</li> <li>(e) Further enhancements to Grey's Mallory (over those provided by WDC);</li> <li>(f) Addition of a left turn slip from Oakely Wood Rd NB to Harbury Lane west bound</li> </ul>	1.Developer	1. Highways Agency, WCC		1. c £18 m	operator	
2. Localised traffic mitigation/management measures TBC	2. Developer	2. Highways Agency, WCC		2. tbc		
3. Public Transport TBC – likely to include Park & Ride and express bus service	3. Bus operator	3. Developer, WCC		3. tbc		
4. Pedestrian and Cycle Links TBC	4. Developer	4. WCC, Highways Agency, SDC, other		4. tbc		

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Transport and highways infrastructure for potential new settlement at Long Marston (NB. based on a new community of 3,000 dwellings):			Phases 3 & 4		Developer (S278/38 and S106); Highways Agency, bus	Most provision critical
1. Strategic Highways Infrastructure     (a) Eastern Relief Road (Southern Section)	1(a) Developer	1(a). WCC		1(a) £30 m	operator	
(b) Eastern Relief Road (Northern Section including river bridge)	1(b) WCC	1(b) Developer, Highways Agency, Environment Agency		1(b) £15 m (major scheme bid)		
2. Localised traffic mitigation/management measures TBC	2. Developer	2. WCC		2. tbc		
3. Public Transport TBC – likely to include Park & Ride and express bus service	3. Bus operator	3. Developer, WCC, other		3. tbc		
4. Pedestrian and Cycle Links TBC	4. Developer	4. WCC, SDC, other		4. tbc		

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Transport and highways infrastructure for potential sustainable urban extension at South East Stratford (NB. based on a new community of 2,000 dwellings):	1(a)	1(a). WCC	Phases 3 & 4	1(a) £30 m	Developer (S278/38 and S106); Highways	Most provision critical
I <u>. Strategic Highways Infrastructure</u> a) Eastern Relief Road (Southern Section)	Developer	, (a). 1100		.(a) 200	Agency, bus operator	
(b) Eastern Relief Road (Northern Section including river bridge)	1(b) WCC	1(b) Developer, Highways Agency, Environment Agency		1(b) £15 m (major scheme bid)		
2. Localised traffic mitigation/management measures  TBC	2. Developer	2. WCC		2. tbc		
3. <u>Public Transport</u> FBC – likely to include Park & Ride and express bus service	3. Bus operator	3. Developer, WCC, other		3. tbc		
4. Pedestrian and Cycle Links TBC	4. Developer	4. WCC, SDC, other		4. tbc		
Widening of M42 north of Junction 3A  Highways Agency has retained this route protection as widening may be required in future	Highways Agency		Possible Phase 3 or 4 (or longer term)	n/a High	ways Agency	
mproving the A46(T) between Alcester and Stratford-upon-Avon (long term aspiration in LTP3)	Highways Agency		Possible Phase 3 or 4 (or longer term)	n/a High	ways Agency	

	1 - Transport &	Highways				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Improving M40 Junction 12 Includes capacity for an additional 5,000 jobs at JLR/Aston Martin (excludes further improvements associated with a new settlement at Gaydon/Lighthorne Heath)	Highways Agency	Land owner/ JLR	Phase 2 (due for completion 2015)	£12 m approx	Highways Agency, WCC, Regional Growth Fund, Local Pinch Point Funding	Critical
Upgrading of train services between Birmingham and Stratford- upon-Avon (LTP3 aspiration)	Centro WC	C, SDC, developers/ landowners	Lifetime of Core strategy	n/a Centro,	could include some S106 from strategic sites at railway stations	

2 - Education									
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?			
Primary Schools Investment likely to be needed to increase capacity at the following:  Stratford primary schools (new schools and investment in existing provision) Southam primary schools St Nicholas CE Primary, Alcester Bidford Primary Ettington Primary Temple Herdewycke Primary Temple Herdewycke Primary The Dassett CE Primary, Fenny Compton Quinton Primary Shipston Primary At potential new settlement at Gaydon/Lighthorne Heath: Relocation and expansion of the existing primary school Lighthorne Heath; and One or more new primary schools  At potential new settlement at Long Marston: Expansion of Quinton Primary School New primary school	Various	WCC, other education providers, SDC, private sector	Lifetime of Core Strategy	Approx. £11.0 m excluding:  • land costs at SuA;  • new school at Shottery;  • nurse ry and special needs  • co sts associated with new settlement or SUE	CIL, S106, Government	Critical			

2 - Education									
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?			
At potential SUE at Stratford-upon-Avon  • Two new primary schools									
Secondary Schools Investment may be needed to increase capacity at the following:  • Stratford (expansion of existing provision or possible new school) • Southam College • Henl ey High • Kineton High (with possible upgrade in facilities) • A Icester Academy • Grammar schools and Catholic High Schools • Shipston High Academy (6 <sup>th</sup> Form provision)  At potential new settlement at Gaydon/Lighthorne Heath: • New secondary capacity (several delivery options would be considered)  At potential new settlement at Long Marston: • Expansion of Shipston Secondary School plus Sixth Form  At potential SUE at Stratford-upon-Avon • New secondary capacity (several delivery options would be considered)	Various	WCC, Academy, Foundation and other Schools, SDC, private sector	Lifetime of Core Strategy	Approx. £20.0 m excluding:  • land costs at SuA;  • post 16 provision;  • special needs;  • grammar and Catholic High School expansions;  • costs associated with new settlement or SUE	CIL, S106, Academy Funding, other	Critical			

3 – Primary and Acute & Community Health Services' Infrastructure								
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?		
Primary Health Care  a) Possible new and/or enhanced primary facilities across the district (to be determined)	South Warwickshire Core Commissioni ng Group	Public Health Warks, NHS England, NHS Property	Lifetime of Core Strategy	n/a	Private sector	Critical		

3 – Primary and Acute	<b>&amp; Community</b>	Health Services	s' Infrastructure	•		
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
b) New primary care facilities at potential new settlement or SUE	(CCG) Serv	ices, GPs and other private sector, SDC				
Community and Acute Hospital Services' Infrastructure  a) A new ward block at the Warwick Hospital site - the main acute hospital services site  b) A new hospital at our Stratford Hospital site including outpatient, diagnostic, treatment and inpatient facilities and a hub for community healthcare teams	South Warwickshire NHS Foundation Trust	WCC, SDC, primary health organisations	Lifetime of Core Strategy	a) £12 m b) £40 m of which some £10 m sought from CIL	Private borrowing, charitable donations, S106, CIL	Critical

4 -Public Health, Green Infr	astructure, O <sub>l</sub>	oen Space, Play	/ & Built Recreat	ion		
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Green Infrastructure (biodiversity aspects)  The Coventry Solihull and Warwickshire Biodiversity Action Plan for Stratford-upon-Avon District. Projects to be identified on an on-going basis; including on-site and off-site measures by developers; agrienvironment schemes; local projects identified by Town and Parish Councils in Neighbourhood Development Plans and Parish Plans etc.	Various	WCC, SDC, Parish and Town Councils, land owners, others	Lifetime of Core Strategy	Biodiversity Action Plan estimated to cost £792 per annum in Stratford District	Grants (landfill tax, HLF etc. Developers/land owners with on-site green infrastructure; Biodivers ity offsetting; CIL; Agrienvironment schemes; Environment Agency; Voluntary sources; Town & Parish Councils (CIL monies)	Some provision critical
Open Spaces Strategy Improvement to pathways on the following SDC green spaces; Recreation Ground (3,000m2), Shottery Fields (1,600m2) in Stratford-upon-Avon  Creation of pathways on Bridgetown Meadowlands (approx 3,000m2) in Stratford-upon-Avon	SDC Public	Health Warwickshire Health Warwickshire	Lifetime of Core Strategy	£276,000	Lotter y Funds     S106     Capit al/     Revenue     Budgets     Lotter y Funds     S106	Some provision critical
New signage & seating on North and South Recreation Ground, Stratford-upon-Avon	SDC Public	Warwickshire		£30,100	Capit al Funds  S106 Capit al/ Revenue Budget	
Landscaping to create contours ('lumps and bumps') on existing open spaces and play areas in the district to promote increased and different usage.	SDC Public	Health Warwickshire		£20,000	• S106 • Capital/ Revenue	

4 -Public Health, Green Inf	rastructure, O	pen Space, Play	/ & Built Recrea	ition		
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
					Budget	,
Ground reinstatement to redevelop existing surfaces at North Recreation	SDC Public		1	£90,000	• S106	1
Ground and Bancroft Gardens sites in Stratford-upon-Avon to reflect		Warwickshire			• Capit al/	
increased usage and soil compaction (107,500m2)					Revenue	
					Budget	
Tree planting on all existing sites to mitigate climate change through	SDC Public			£31,000	The Landscape	
provision of greater shade and tree species suited to changing weather		Warwickshire,			Group Carbon	
patterns		WCC			Offsetting	
		Ecology			• T he Tree	
					Council	
					<ul> <li>Lan dfill Tax</li> </ul>	
					Credits	
Enhancement and development of the Warwick Road Lands to include	SDC Public			£100,000	<ul> <li>Lan dfill Tax</li> </ul>	
pathway improvements, information boards to improve accessibility to		Warwickshire,			Credits	
nature and education on the site.		WCC Ecology			Lotter y Funds	
Creation of 7 new allotments across the district (175 plots in total)	Town &	£35,00		0	• Town &	
	Parish				Parish	
	Councils				Councils	
					Lottery Funds	
					<ul> <li>Capit al Funds</li> </ul>	
Creation of 2 community orchards within the district	Town &	£14,00	1	0	• Town &	
	Parish				Parish	
	Councils				Councils	
					• T he Tree	
					Council	
					Natura I England	
					• Lan dfill Tax	
					Credits	
					• DEFRA	
Creation of 4,000m2 of landscaped wildflower meadow within Stratford-	SDC Public		£20,00	0	• Town &	
upon-Avon		Warwickshire,			Parish	
		WCC			Councils	
		Ecology, Stratford			Prince Charles	
		Town			fund	
		Trust/Town				

4 -Public Health, Green Infr						
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
		Council			Stratford Town     Trust/Town     Council	
Active Communities Strategy  7 Multi Use Games Areas (MUGA's) to be installed in Stratford Town and the main rural centres across the District	SDC or	Public Health Warwickshire	Lifetime of Core Strategy	£100k per facility	• CIL	Some provision critical
	Parish Councils				External health related grants	
5 Measured Miles (400 metre loop) and improved signage (Rural & urban) to be installed in Stratford Town and the main rural centres across the District	SDC or Town/ Parish Council	SDC or Town/ Parish Council, Public Health Warwickshire		Rural £50k per facility £10k Urban signage	<ul> <li>CIL</li> <li>External health related grants</li> <li>Town &amp; Parish Councils</li> </ul>	
3 Outdoor Gyms to be installed in Stratford Town and the main rural centres across the District	SDC or Town/ Parish Council	SDC or Town/ Parish Council, Public Health Warwickshire		£15k per facility	<ul> <li>CIL</li> <li>External play space related grants</li> <li>Town &amp; Parish Councils</li> </ul>	
Enhancement of the 3 District Council leisure centres outside of Stratford Town	SDC Town/	Parish Council, Public Health Warwickshire		£1m per facility	<ul><li>CIL</li><li>SDC capital budget</li><li>External health related grants</li></ul>	
Enhancement of destination play spaces – recreation ground and skate park (play equipment)	SDC Public	Health Warwickshire		£150k per facility	CIL SDC capital budget External	

					health related	
					grants	
Enhancement of local play spaces arising from greater use linked to the	SDC or	SDC or	1	£15k per	• S106	
new development (play equipment)	Town/	Town/ Parish		facility	<ul> <li>SDC capital</li> </ul>	
	Parish	Council,			budget	
	Council	Public Health			<ul> <li>External</li> </ul>	
		Warwickshire			health related	
					grants	

5	- Emergency	Services				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Police	_					_
a) Money requested for investment to support mobile policing (IT systems & equipment and vehicles).	Warwickshire Police	Developers, WCC, SDC	Lifetime of Core Strategy	£5.37 m or £3.76m with Secured by Design. (Equivalent to £566 per dwelling, or £396 with Secured by Design x 9500 dwellings). Some £1.78- £2.55m to be sought from CIL.	CIL , S106, other sources	
b) A Safer Neighbourhoods Unit is likely to be required at any potential new settlement	Developer	Warwickshire Police	Phase 4	£100,000	S106	
Fire & Rescue  Consultations are ongoing about the provision of hydrants, sprinklers and smoke alarms in new development	Warwickshire Fire & Rescue Service	Developers, WCC, SDC	Lifetime of Core Strategy	n/a	S106, other sources	

6 –	Water and Util	ity Services				
Infrastructure	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?
Water Supply and Waste Water Treatment						
Water Supply – development of a new settlement or SUE will require upgrading of the water supply infrastructure.	Severn Trent Water	Private developers, Environment Agency, SDC	Phases 2- 4	n/a	Severn Trent Water (private developers for on-site works and local	Critical
2. Waste Water					connections)	
The following Waste Water Treatment Works are likely to need upgrading:					,	
<ul> <li>Itchen Bank</li> <li>Kineton</li> <li>Wellesborne</li> <li>Butlers Marston</li> <li>C herington</li> <li>Gaydon</li> <li>Illmington</li> <li>Lightho rne Heath</li> <li>Long Compton</li> <li>Long Marston</li> <li>Napto n</li> <li>Pr iors Marston</li> </ul> Certain areas of the foul drainage network will also need upgrading, especially in relation to the proposed new settlement or SUE						
Strategic Flood Risk Assessment (SFRA)	SDC WC	C, other districts and boroughs, Environment Agency	Every 5 years during lifetime of Core Strategy	£5-10,000 per FRA; 2-3 further FRAs are likely to be needed by 2028	Capital Reserves, CIL	Critical
Flood Alleviation and Defences  The Environment Agency is currently planning flood alleviation works in Shipston-on-Stour, Henley-in-Arden and along the upper reaches of Racecourse Brook, Stratford.	Environment Agency	Defra, WCC, SDC, STW, landowners/	Phases 2-3	£2.0 - £2.9 m	Environment Agency (FDGiA, Local	Critical

6 -	6 – Water and Utility Services									
Infrastructure	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?				
		developers, Town and Parish Councils			Levy), commercial contributions, STW at Racecourse Brook					
The SFRA currently being commissioned will help identify any necessary further works to flood defences but these will not generally be related directly to new growth (use of SUDS and water recycling measures will ensure no developments increase flood risk). S106 may be required to deal with on-site or downstream flooding on large developments. CIL may also be sought where the works will facilitate further growth.	Environment Agency	Defra, WCC, SDC, landowners/ developers, Town and Parish Councils	Phases 3-4	n/a	Environment Agency (FDGiA, Local Levy), STW, commercial contributions, S106/CIL					
Surface Water Management Plan and Local Flood Risk Management Strategy	WCC EA,	SDC, landowners/ developers, Town and Parish Councils	Lifetime of Core Strategy	n/a WCC		Critical				
Gas and Electricity	National Grid	Western Power Distribution, developers, SDC	Lifetime of Core Strategy	n/a Utility	(power) companies and developers	Critical				
Renewable/Low Carbon Energy Projects	Various Variou	s	Lifetime of Core Strategy	n/a Allowabl	e solutions fund, CIL, other					
Improving Telecommunications										
Stratford-on-Avon District Local Broadband Plan (part of the Coventry, Solihull and Warwickshire Superfast Broadband Project)	Coventry Solihull and Warwickshire Broadband Partnership (CSWBP) and private	SDC, LEP, Parish and Town Councils, Coventry University, DEFRA,	Government funds to be spent by 2015; Overall plan to be complete by 2018.	£14.47 million across the CSW partnership area	Central government; CSWBP, European Regional Development Fund (ERDF),					

6 – Water and Utility Services									
Infrastructure	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?			
	contractor (British Telecom)	European Commission			Lottery Funds, DEFRA, CIL, British Telecom				

7 – Other Social Infrastructure									
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Costs (£)	Funding	Critical to Delivery?			
Libraries/Community Facilities  a) support to community libraries (stock purchase and E-services)	a) Town & Parish Councils	a) SDC, WCC	a) and b) Lifetime of Core Strategy	n/a	CIL, S106, WCC, Town & Parish Councils				
b) support to Mobile Library Service	b) WCC	b) SDC, Town & Parish Councils							
c) new community library at any new settlement/SUE	c) developer	c) WCC, SDC, Town & Parish Councils	c) Ph 4	£1.9-£3.8 m	S106				