

Greater Norwich Growth Board

Greater Norwich Infrastructure Plan

May 2015



Jobs, homes, prosperity for local people



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Appendix 1 Infrastructure Framework

This section lists all the currently planned strategic infrastructure projects.

1. Introduction

- 1.1 The Greater Norwich area, covering the districts of Broadland, Norwich and South Norfolk, is a key engine of growth for the United Kingdom. The Joint Core Strategy for the area (JCS) aims to deliver 27,000 jobs and 37,000 homes between 2008 and 2026. Greater Norwich is one of the fastest growing areas in the country and has established itself as a leader in science, technology and manufacturing. The Greater Norwich City Deal, signed with government in December 2013, aims to bring an additional 13,000 jobs and 3,000 homes to the area, as well as 6,000 jobs in construction. Through the City Deal the Greater Norwich Growth Board partners' ambition is to enable the existing world class knowledge to develop and grow into world class jobs and a thriving economy.
- 1.2 There are three strands to the City Deal – Enterprise, Skills and Infrastructure. As part of the deal, the government announced £3.9m of funding for the LEP-wide enterprise and innovation element, while the 'skills for growth' aspect, worth £4m, was secured in October 2013.
- 1.3 The Greater Norwich Infrastructure Plan helps co-ordinate and manage the delivery of strategic infrastructure to support growth, a high quality of life and an enhanced natural environment¹. It informs prioritisation of investment and delivery. It is not an exhaustive list. It is a living document, updated every 6 months to reflect the latest information.
- 1.4 The Greater Norwich Infrastructure Plan supports the delivery of the JCS, other Local Plan documents for the area, local economic strategies, the Greater Norwich City Deal, and the Strategic Economic Plan (produced by the New Anglia Local Economic Partnership). It draws on work to identify and secure the key infrastructure required to support growth as set out in the Joint Core Strategy Infrastructure Framework (included in JCS Appendix 7 and 7a). The updated Infrastructure Framework is included as Appendix 1.
- 1.5 While mainstream funding provides the primary support for new infrastructure, contributions from new development, such as Section 106 agreements and Community Infrastructure Levy are also important. Section 2 provides an overview of funding and delivery mechanisms.
- 1.6 Section 3 outlines the range of infrastructure required to support growth including that delivered and funded by other means – e.g. Asset Management Plans, or infrastructure directly delivered or funded as part of the development.
- 1.7 The Greater Norwich Infrastructure Plan concentrates on the key infrastructure requirements that support the major growth locations (see figure one – Joint Core Strategy Key Diagram) or the overall scale of growth. Individual developments tend to require smaller scale infrastructure that is not detailed here. Section 4 provides an overview of progress expected in the next few years on significant sites.
- 1.8 Many elements of key infrastructure can be implemented incrementally to reflect emerging patterns of growth. This includes enhancements to public

¹ The GNIP evolved from the previous Local Investment Plan and Programme to provide a more focused delivery plan.

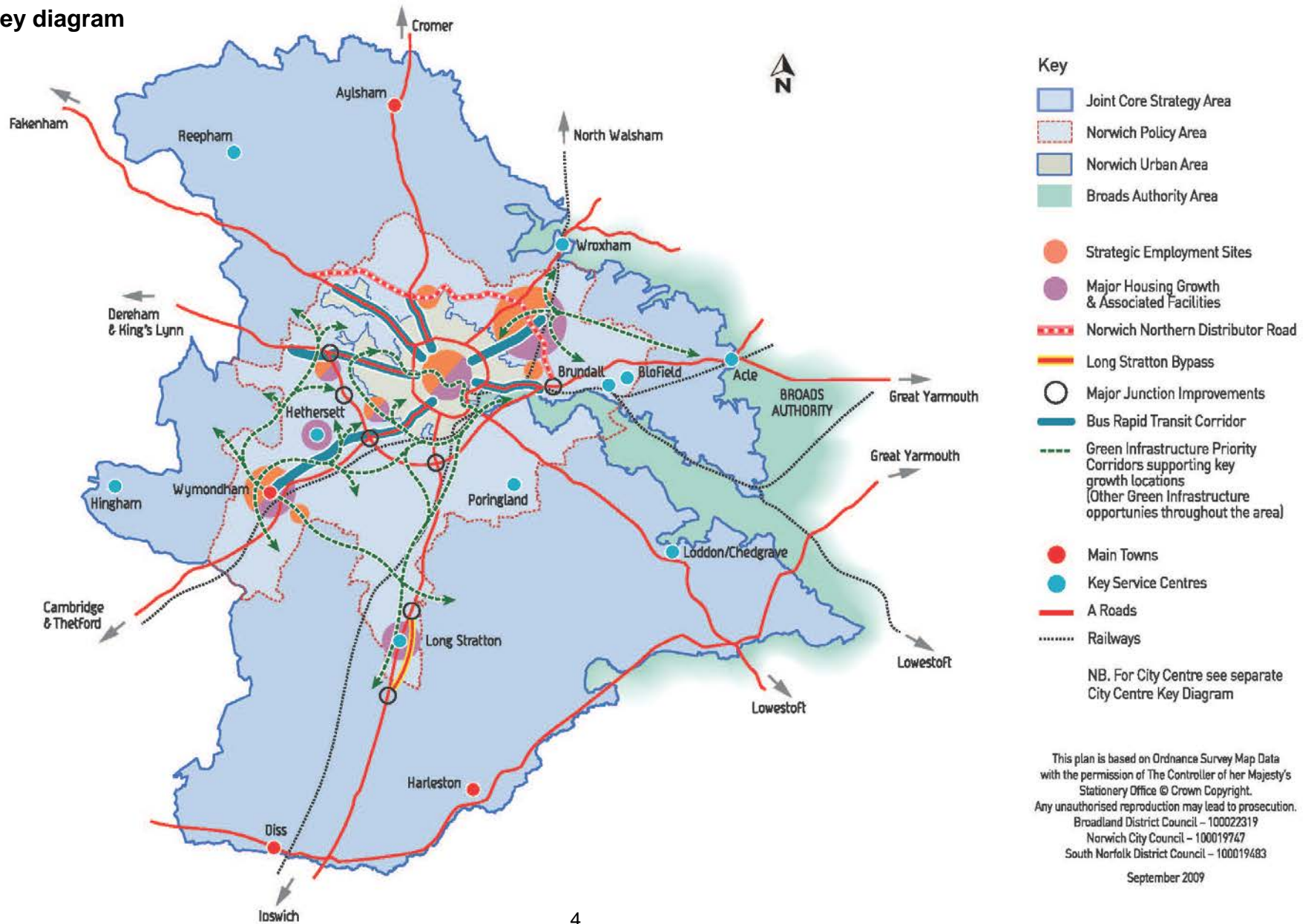
transport corridors to move them towards fully fledged Bus Rapid Transit, elements of the green infrastructure network and extensions to cycle routes.

1.9 The Greater Norwich Infrastructure Plan provides greater detail on the schemes for delivery in the shorter term. It does not seek to fundamentally review or re-prioritise agreed infrastructure, but is a means of refreshing and managing the strategic programme, keeping it up to date and fit for purpose.

1.10 However, as time moves on and projects evolve, some differences with previous work may be noted. This is because:

- Project titles can change to better reflect the details of the proposals.
- A Project can support more than one topic, for example a cycle route can be both Green infrastructure and transport infrastructure.
- The expected timing of infrastructure delivery can change, for example to reflect updated assumptions on the timing of the development it is intended to support, or because funding has become available.
- Significant changes in timing can alter the nature of any solution and the capacity of existing infrastructure to support growth can have changed in the interim.
- The original evidence identified the need for pre-school places separately. In fact, these places are delivered in new primary schools having taken account of any capacity in existing provision. Consequently, pre-school provision no longer appears as a separate line.

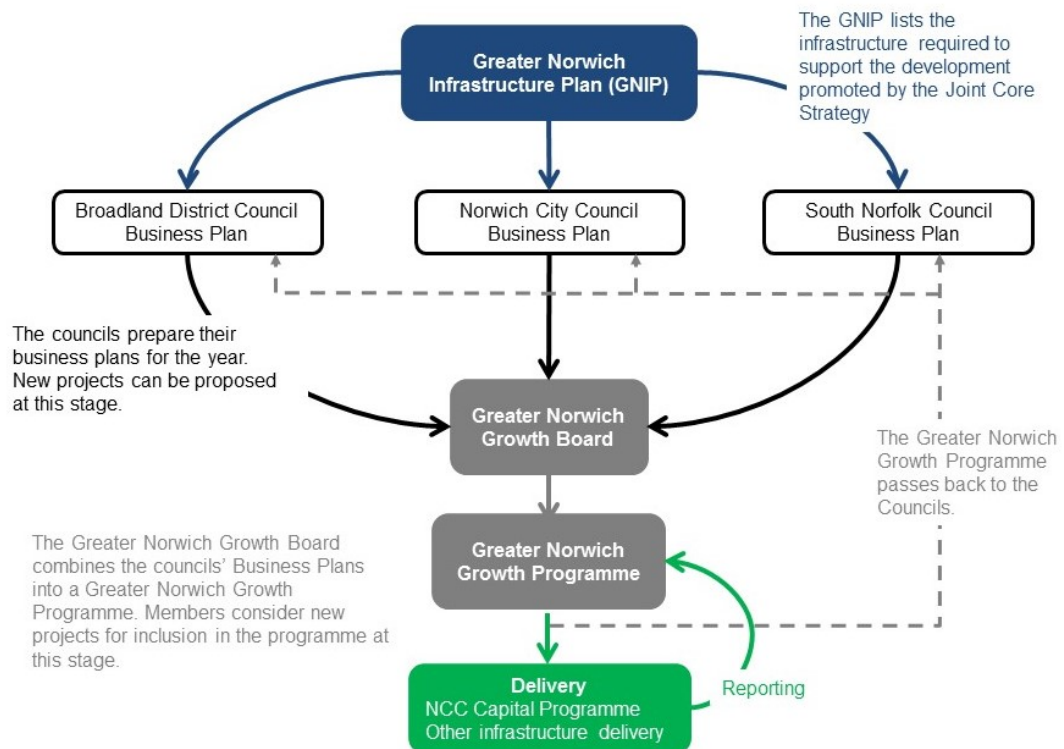
Figure 1: Key diagram



2. Funding sources and delivery planning

- 2.1 In December 2013, Broadland, Norwich City, Norfolk County, South Norfolk councils and the New Anglia LEP signed a City Deal with central government. A core theme supports infrastructure delivery to accelerate planned growth.
- 2.2 The City Deal identifies a £440m infrastructure investment programme developed from the JCS Infrastructure Framework. The councils, with the LEP, have put in place pooled funding and governance arrangements to manage timely delivery of the programme. To help fund the programme about £120m of Community Infrastructure Levy is identified from the housing trajectory (excluding the proportion retained for local communities).
- 2.3 The Greater Norwich Infrastructure Plan provides the longer term context to inform short term business plans and funding decisions. Each Council prepares and approves an Annual Business Plan. These plans are presented to the Greater Norwich Growth Board which puts together a Greater Norwich Growth Programme from the individual plans. Collectively, the councils manage this Programme, identifying projects for delivery and packages of funding. There is a collaborative approach to funding the Programme through pooling of the Community Infrastructure Levy, Local Growth Fund, use of mainstream funding, identification of other funding such as pooled business rates or New Homes Bonus, and, where required and agreed, the use of borrowing. The Greater Norwich Growth Board manages the risks to delivery and provides a robust means of agreeing ongoing priorities.

Figure 2: Greater Norwich Growth Programme process



- 2.4 The GNIP Infrastructure Framework looks over longer term and tends to identify the earliest date on which a piece of infrastructure can be delivered taking account of broad indications and reasonable assumptions of funding availability. The business plans and Growth Programme take a shorter term view and consequently prioritise schemes based only on known funding sources or those with a high degree of certainty.
- 2.5 Local communities will retain 15% of Community Infrastructure Levy contributions to deliver schemes within their area (25% where there is a Neighbourhood Plan in place).

Progress on delivering key infrastructure

- 2.6 The Postwick Hub is under construction with completion expected later in 2015. The Northern Distributor Road has been considered through the Nationally Strategic Infrastructure Projects process. The public examination hearings closed on 2 December 2014 with a decision due no later than the beginning of June 2015.
- 2.7 A major improvement at Thickthorn to address existing and future problems has been included in the trunk road programme 2015-21. The scheme had previously been identified in the Infrastructure Framework with an expectation that it would be developer funded at an indicative cost of £30m. The Government announcement essentially releases this level of CIL investment for other elements of the Infrastructure Framework. The £2m LGF previously allocated for Thickthorn has been switched to Longwater in 2015/16-17/18.
- 2.8 The Norwich Area Transportation Strategy is a New Anglia Strategic Economic Plan priority. The New Anglia Growth Deal announced in July 2014, and the more recent (February 2015) Growth Deal 2 announcement, confirmed Local Growth Funding of £11m for scheme delivery from 2015-2020. Final sign-off of the funding will be made by the New Anglia Local Transport Body (the Local Transport Body is set up across Norfolk and Suffolk to provide advice to the LEP Board and manage central government funding devolved to the LEP for transport schemes).
- 2.9 Improvements for buses and cyclists in the City centre have been introduced, funded from a variety of sources, on Grapes Hill, Chapelfield North, Theatre Street, Rampant Horse Street, St Stephens Street, Westlegate and Red Lion Street.
- 2.10 In August 2013 the area was awarded £3.7m Cycle City Ambition grant, which, with match funding, has led to over £5.5m investment in cycling for the period up to March 2016. A successful second round bid in February 2015 awarded a further £8.4m which, with match funding provides £15.4m investment for the period up to March 2019.

3. Key Infrastructure

- 3.1 There are a range of topic based mechanisms for the delivery of Infrastructure, including plans and strategies with their own objectives, priorities and implementation plans. The Greater Norwich Infrastructure Plan is guided by these topic plans and processes and also influences them to meet needs arising from emerging growth pressures. The GNIP's main focus is on green infrastructure, transport, schools and community facilities such as libraries, sports and recreation. This section also includes infrastructure which is required to support growth but is funded and delivered by other means and does not feature in the Infrastructure Framework. Work on utilities infrastructure and capacity constraints is ongoing.

Green Infrastructure

- 3.2 A Green Infrastructure Delivery Plan was produced in 2009 focusing on the two main geographical areas identified for significant development: South West and North East Norwich. It identifies a number of schemes or projects to contribute to the protection and enhancement of the strategic green infrastructure network and continues to inform delivery.
- 3.3 However the understanding of need and prioritisation is always under revision and as information becomes available, projects are refined and re-prioritised. The projects in the Greater Norwich Infrastructure Plan are based on the need to mitigate the potential impacts on European Sites under the Habitat Regulations and an understanding of the location and timeframe for development within the spatial framework of the identified green infrastructure corridors.
- 3.4 Green infrastructure is identified in the Strategic Infrastructure programme.

Transport

- 3.5 Provision is guided by the Norwich Area Transportation Strategy and its implementation plan developed alongside the Joint Core Strategy. The proposals in the Implementation Plan (updated in 2013) include:
- plans for improving transport and accessibility in the city centre
 - improving the cycling and walking network across Norwich
 - further improvements to rail and bus services building towards a Bus Rapid Transit system for the city.
 - capacity improvements to the A47 Postwick interchange (Postwick Hub)
 - delivering the Northern Distributor Road
 - taking additional steps to improve traffic flows in the area
- 3.6 A number of elements in the Implementation Plan are directly related to the delivery of growth, such as Bus Rapid Transit routes associated with major growth locations. Implementation is kept under review to reflect housing and employment delivery and the availability of further funding.

Schools

- 3.7 The County Council is responsible for ensuring sufficient school places and works with a variety of providers. Growth can often be accommodated through expansion of existing schools but new schools are also required to serve large scale growth. Funding comes from a mainstream capital funding, S106 and CIL. The County Council develops a capital programme which is reflected in this GNIP.

Waste and recycling

- 3.8 Responsibility for waste disposal and planning, including Household Waste Recycling Centres, lies with Norfolk County Council. The County Council has to ensure that waste facilities coming forward provide adequate capacity to dispose of and/or treat all other kinds of waste, including commercial and industrial, construction and demolition, and hazardous waste.
- 3.9 There are currently seven Household Waste Recycling Centres in the area. One additional centre will be required by 2026, with the preferred location being the Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle.

Police, Ambulance and Fire services

- 3.10 Development will be well designed, to include safe and accessible space where crime and fear of crime are minimised. Access to police services through Safer Neighbourhood Teams will require new local facilities in major growth locations, though there may be scope to co-locate these with other community facilities. Norfolk Constabulary has indicated the need for a deployment base at Postwick junction and Beat Offices at Thorpe St Andrew and Rackheath.
- 3.11 Additional ambulance service capacity is expected to be met through a reorganisation of existing provision and the use of strategically located stand-points or facilities at hospitals, with limited impact on capital expenditure.
- 3.12 Fire appliances must be based at stations for most of the time. The existing fire stations across the area are well positioned in relation to the strategic growth locations and are expected to provide the necessary levels of service.

Healthcare

- 3.13 Health care facilities and the infrastructure needed to promote healthy lifestyles are required. The precise scale and nature of the facilities required will be dependent on the evolving nature of healthcare provision and will be kept under review.
- 3.14 NHS England continue to engage with the GNGB partners about the need for health and social care facilities, including potential facilities at Old Catton/Sprowston and Rackheath, and the expansion of existing facilities elsewhere.

Community infrastructure

- 3.15 Parishes will receive 15% of the CIL to deliver community infrastructure projects that they deem as necessary to support growth in their area. This rises to 25% where there is an adopted Neighbourhood Plan. Broadland District Council and South Norfolk Council continue to engage with parishes about the delivery of infrastructure, including how this relates to the development and implementation of Neighbourhood Plans. In the Norwich City Council area there are no parishes and the council will be consulting directly with communities.

Libraries

- 3.16 The County Council has a statutory responsibility to provide a comprehensive and efficient library service. New housing development may be served by a new library building, fixtures and stock, upgrading or providing extra capacity at an existing library or providing a mobile service. Funding requirements may be phased throughout the Plan period dependent on the trajectory of development at any particular location.

Recreation

- 3.17 Recreational facilities are provided and maintained by a number of different organisations, both public and private. Additional recreational facilities required to serve growth will be provided on-site on larger new developments and through improvements to existing facilities. Up to date evidence from the playing pitch and built sports facilities strategies will be used to inform prioritisation decisions and will assist sports facilities providers in accessing grant funding.

Housing

- 3.18 The Joint Core Strategy policy target for delivery of affordable housing is 33% of total housing delivery. Affordable housing will continue to be negotiated on a site by site basis alongside other direct development requirements. As strategic infrastructure is funded from pooled sources, negotiations on Affordable Housing provision do not directly impact on delivery of the Strategic Infrastructure programme.

Electricity

- 3.19 The partners continue to work with UK Power Networks to explore mechanisms to ensure the cost of electricity infrastructure is shared proportionately between planned developments. No significant barriers to the delivery of require infrastructure have been identified.

Gas

- 3.20 Limited improvements to gas infrastructure are required across the area and do not provide a constraint.

Water

- 3.21 Significant investment is required in infrastructure to support growth and meet the requirements of the Habitat Regulations. Water quality is crucial, due to the number of protected sites relying on high water quality, including the Broads.

3.22 Anglian Water's "Water Resource Management Plan 2015" was approved in 2014 and covers the period 2015 to 2040. Some £25.6m of investment is proposed in the Norwich and the Broads water resource management zone during the period 2015-20 to deliver a relocation of the direct intake, improve water efficiency and enhanced metering. Further investment is proposed during post-2030 to resolve longer term issues. The plan also identifies additional options for maintaining the supply-demand balance should the future deficit significantly exceed current expectations.

Waste Water

3.23 Growth in several parts of the area is dependent on investment at sewage treatment works. Investment in sewerage capacity is required to the north and the south of Norwich and to serve the city centre. The timing of these investments will have an important effect on the phasing of development. The partners are working closely with Anglian Water to identify the best means of ensuring infrastructure is provided in a timely manner to serve development. Anglian Water works in five-year Asset Management Programmes with the forthcoming period for 2015-2020.

Table 1: Sewerage investment required to support major growth

Broadland : North East Growth Triangle	A new strategic sewer to Whitlingham would use existing way leaves on the route of the existing sewer and can be upgraded in sections. Delivered by developers and Anglian Water through requisition order process.
Norwich : Three Score, Bowthorpe South Norfolk : North Hethersett; Costessey, Lodge; Farm, Easton	Yare Valley sewer upgrade
Long Stratton	Strategic sewer

Flooding

3.24 The great majority of development proposed in the JCS is located in areas with no fluvial/tidal flood risk. Any development proposed in areas of some flood risk (zone 2), will have to provide a flood risk assessment to show how flood risk can be mitigated. This will apply mainly to limited areas of the city centre. In Broadland and South Norfolk, the site allocations documents have actively avoided allocating any new sites with any Zone 2 or 3 flood risk.

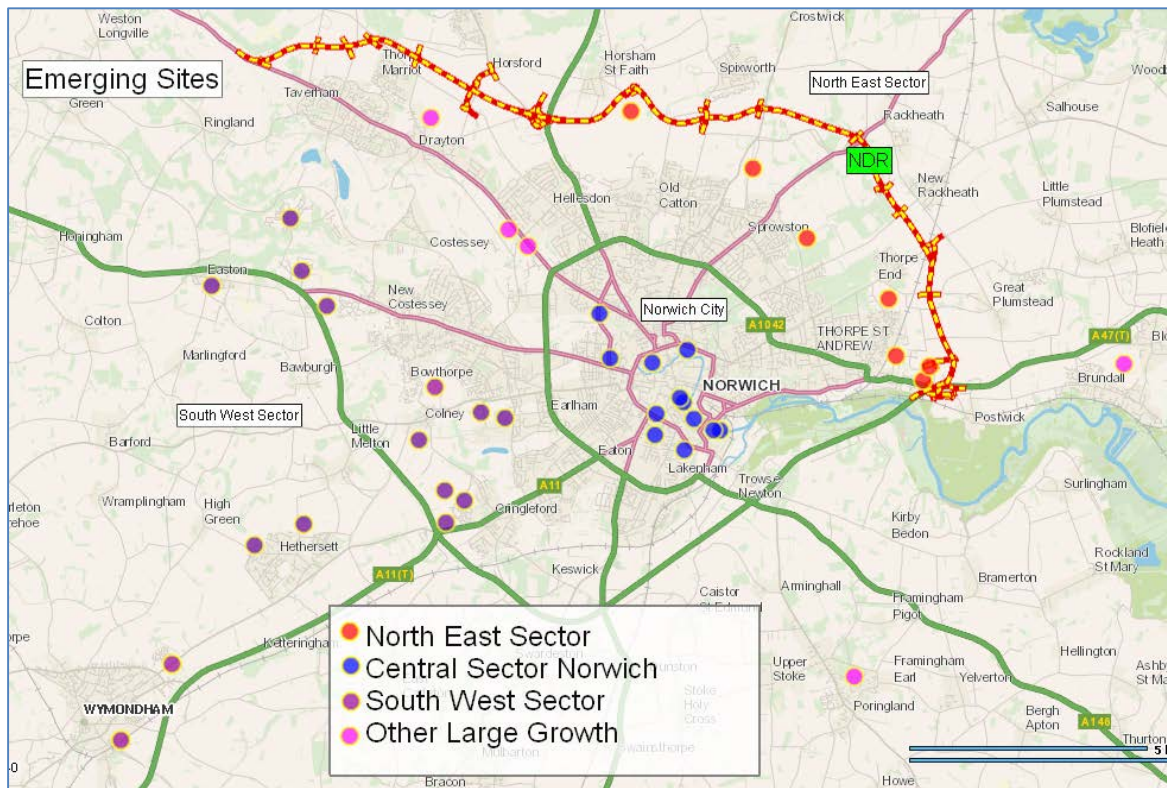
3.25 Developers will work with the relevant public authorities in minimising flood risk through a combination of high quality urban design and green infrastructure, as well as use of Sustainable Drainage Systems.

Telecoms

- 3.26 A high speed and reliable broadband infrastructure is critical to economic development. It is also a key component in tackling deprivation and improving access to services amongst disadvantaged communities.
- 3.27 The 'Broadband Strategy for Norfolk' highlights the importance of broadband to enable businesses to grow, encourage investment and reduce the digital divide and is being used to identify priorities and investment opportunities in the area.
- 3.28 The "Better Broadband for Norfolk" project began in 2012 and phase 1 completes at the end of 2015. Phase 2 was announced in January 2015. On completion the project aims to ensure that 92% of premises in Broadland, 99% in Norwich and 86% in South Norfolk, are connected to the broadband fibre network providing access to 24mb/s. The aim of the project will be to supply the majority of Norfolk with access to superfast broadband and everyone with at least 2mb/s.

4. Major Growth Locations

4.1 Infrastructure planning reflects the distribution of planned growth illustrated in figure one. Progress is illustrated on the following map



North East Norwich

- 4.2 The North East sector includes the Old Catton, Sprowston, Rackheath Thorpe St Andrew Growth Triangle as well as a number of adjacent developments. It is the largest single growth location in the Joint Core Strategy seeking to deliver 10,000 additional new homes (on top of existing commitments in 2008), a 25 hectare expansion of Broadland Business Park, 25 hectares of new employment land at Rackheath and 30 hectares of new employment land at the airport. In addition, planning permissions have been granted for a 40 hectare Aeropark on the north side of the airport, and a 12,750m² office development on the old hospital site at Thorpe St Andrew.
- 4.3 Successful delivery is dependent on the Postwick Hub and the Norwich Northern Distributor Road. The Postwick Hub is under construction. The decision on development consent order for the Northern Distributor Road is due by June 2015 and this timetable will not delay housing delivery.
- 4.4 Broadland District Council is producing an Area Action Plan to coordinate planning and delivery across the triangle. The Area Action Plan has been submitted for examination with hearings due later in 2015.
- 4.5 Although the Area Action Plan has yet to be adopted there are significant planning consents in the Growth Triangle that total over 5,300 dwellings. While delivery will span a number of years all these are planned to be on site within the next 3 years. Emerging developments in the north east sector as a whole are summarised in table two below.

Table 2: North East sector – significant sites for early delivery

Site/ Location	Development	Status	Expected start
Norwich International Airport	Aeropark 40ha aviation related business development	Permitted	2015
Land East of Buxton Road (Spixworth)	225 New Homes (minimum)	Resolution to permit	2016/17
Beeston Park (North of Sprowston and Old Catton)	3,520 dwellings, employment, shops, services, cafes, restaurants and pubs, a hotel, two primary schools, community space	Resolution to permit	2016
White House Farm (Sprowston)	1233 dwellings, a link road, a primary school, and a large woodland park	Permitted (pre-CIL)	Commenced
Land Adj. Salhouse Road (Rackheath)	79 dwellings and ancillary works	Permitted	2015
Brook & Laurel Farms including Broadland Business Park North (Thorpe St Andrew)	600 dwellings, 14.6ha of employment land and local centre plus a link road between Plumstead Rd and BBP.	Permitted	2017/18
Broadland Business Park South (Thorpe St Andrew)	5 ha undeveloped	Remainder of allocation	
Broadland Gate (Thorpe St Andrew)	c18ha of employment land associated with the Postwick Hub junction	Permitted junction under construction	
Former northside hospital (Thorpe St Andrew)	12,750m ² office development	Permitted existing buildings demolished	
Pinebanks – (Thorpe St Andrew)	231 dwellings	Resolution to permit	2016/17
Griffin Lane - (Thorpe St Andrew)	71 dwellings & community building	Permitted	2016/17

4.6 The original delivery trajectory and infrastructure delivery profile was developed to support a strong start within the Triangle. This remains the case.

Norwich City

4.7 The city is unique as a growth location as the majority of the commitment of 8,600 dwellings will be delivered on many smaller sites within the existing urban area. Some of the more significant sites with early delivery are identified in table three below. The largest site, for 1000 dwellings at Bowthorpe, and developments at UEA are included under the South West Sector as they will share some of the same infrastructure.

Table 3: Norwich City - significant sites for early delivery

Site/ Location	Development	Status	Expected start
City Centre			
St Ann's Wharf, King Street	Mixed use development of 437 dwellings plus retail and leisure uses	Permitted	2016/17
Mountergate West	180 dwellings	Allocation	2016/17
Wherry Road	66 dwellings	Permitted	Underway
Muspole Street	57 dwellings	Permitted	2016/17
Barrack Street	Mixed use office (20,500sqm), shop units, hotel and 200 dwellings	Permitted	Part implemented
All Saints Green/Bus Station	228 student bedrooms	Permitted	Underway (Complete 2015)
Edge of centre (Dereham Rd corridor)			
Goldsmith street	100 dwellings	Allocated	2015/16
Edge of centre to south east sector			
Aviva Car Park, Brazengate	86 dwellings	Permitted	Underway (near completion)
Kerrison Rd / Carrow Road	NR1 (Taylor Wimpey) 174 dwellings	Permitted	Complete March 2015
	Carrow Quay 250 dwellings	Permitted	2015/16
Lakenham Sports Club	75 dwellings	Permitted	Underway
North west sector (Fakenham Rd corridor)			
Havers Road	100 dwellings	Allocated	2017/18

4.8 These sites generally only require improvements to provide open space requirements and access but do pressure the city wide transportation networks and education provision. Education, transport and green infrastructure projects are required across the city to meet current development rates, although because of the area wide nature of many of these improvements development is not directly dependent on infrastructure delivery.

South West

Table 4: South West sector - significant sites for early delivery

Site/ Location	Development	Status	Expected start
Threescore- Bowthorpe	1000 dwellings, plus housing with care	Permitted (pre-CIL)	Underway
UEA	1,000 student bedrooms	Permitted / allocated	220 by 2015 remainder 2016/17
Norwich Research Park (UEA)	Enterprise Centre	Permitted	Underway
Norwich Research Park (Colney)	43ha available for expansion. Centrum and Medical Research buildings completed	Permitted	
Roundhouse Park (Cringleford)	280 dwellings remaining	Permitted (pre-CIL)	Underway
Newfound Farm (Cringleford)	620 dwellings	Allocation with resolution to permit	2015/16
Land north and south of A11 (Cringleford)	Around 650 dwellings	Allocation	2016/17
North village (Hethersett)	1196 dwellings	Permitted (pre-CIL)	2015/16
Gt Melton Rd (Hethersett)	158 dwellings	Permitted (pre-CIL)	2015/16
Wymondham	2420 dwellings on a range of sites	Permitted (pre-CIL)	Underway/ 2015
Queens Hills (Costessey)	390 dwellings remaining	Permitted (pre-CIL)	Underway
West of Lodge Farm (Costessey)	490 dwellings	Permitted	Underway
Longwater (Costessey)	6,660m2 Major retail development (for Next)	Permitted	Underway
Easton	900 dwellings	Application submitted	2015/16

- 4.9 The South West includes four major growth locations in South Norfolk, Wymondham, Hethersett, Cringleford and Easton, plus Three Score (Bowthorpe) in Norwich. It also includes UEA (Norwich) and the strategic employment locations at Longwater, Hethel and Norwich Research Park.
- 4.10 Collectively the growth at Wymondham, Hethersett, Cringleford and the NRP is dependent on an improvement at the A11/A47 Thickthorn junction and public transport corridor enhancements. A major improvement at Thickthorn has been included as a commitment in the Government's Road Investment Strategy Investment Plan with delivery commencing in the period 2015-21.
- 4.11 Similarly, growth at Easton and Costessey is served by investment in the A1074 Dereham Rd public transport route and improvements at Longwater junction. The A47 Easton junction will be affected by proposed dualling of the A47 between Easton and North Tuddenham which is also a commitment in the Road Investment Strategy Investment Plan.

Long Stratton

- 4.12 There is a long-standing desire for a bypass to be constructed to improve quality of life for existing residents. Moreover, the delivery of a bypass is a prerequisite for planned growth. South Norfolk Council is preparing an Area Action Plan for Long Stratton. The Area Action Plan has been submitted for examination. In addition there have been pre-application discussions with potential developers promoting land for 1800 houses and the bypass. Phasing linked to development rates is being explored through the Area Action Plan. Development is expected to start in 2017/18.

Elsewhere in the Norwich Policy Area

- 4.13 In addition to the major growth locations, the JCS seeks additional commitment for about 3800 homes on smaller sites in the Broadland and South Norfolk parts of the Norwich Policy Area. These sites are being identified through sites allocations documents. Recent permissions have included speculative applications taking advantage of the lack of five year housing supply. Local infrastructure enhancements may be required for these sites and secured through Section 106 legal agreements. Cumulative impacts of small sites are hard to predict and it is likely that improvements will be driven by the pressure on services and facilities. These do not appear in the short term but will be kept under review.
- 4.14 Some of the larger sites, or particular concentrations of smaller sites, may influence decisions on strategic infrastructure:
- Development at Blofield and Brundall will benefit from some of the strategic infrastructure serving the north east quadrant.
 - Although of a smaller scale than in the north east and south west quadrants, significant concentrations of growth are planned in the north-west, on the Fakenham Road axis, and in the south east from the edges of the city centre out towards Poringland.

Table 5: other significant sites for early delivery:

Site/ Location	Development	Status	Expected start
Golf Course (Hellesdon)	1000 dwellings,	Emerging allocation	2017/18
Hospital site (Hellesdon)	300 dwellings	Emerging allocation	2017/18
Cator Lane / Hall Road (Drayton)	200 dwellings	Permitted	2016/17
Various Blofield / Brundall)	Over 400 dwellings	Permitted	Underway
Various Framingham Earl / Poringland	Over 900 dwellings	Permitted	Underway
Long Stratton	1800 dwellings and associated bypass	Emerging allocation	2017/18

Outside the Norwich Policy Area

- 4.15 Outside the Norwich Policy Area the scale of planned growth is modest and currently is not identified to require anything other than development specific improvements likely to be secured through the planning process. Infrastructure requirements will be kept under review

Appendix 1: Greater Norwich Infrastructure Framework

Community Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost (£,000)	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding Profile												
								2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	
CF1	Broadland	Community Facilities																		
CF1.1	Broadland	Community Building - Home Farm	Serviced Site provided as part of Home Farm development	TBC		Other			X											
CF1.2 (prev. 2.1)	Broadland	Community Building - Brook & Laurel Farm	Requires Project Brief / Feasibility	500	75	\$106/CIL	425					300								
CF1.3 (prev. 2.2)	Broadland	Community space including new library -North Sprowston & Old Catton	Requires Project Brief / Feasibility	2,400		\$106/CIL	2,400				2,400									
CF1.4	Broadland	Community Building - Land South of Salhouse Road	Requires Project Brief / Feasibility	500		\$106/CIL	500						500							
CF1.5	Broadland	Community Building - Rackheath	Requires Project Brief / Feasibility	500		\$106/CIL	500							500						
CF1.7	Broadland	Expansion of Sprowston Library				\$106/CIL														
CF1.8	Broadland	Modernisation of Thorpe St Andrew School swimming pool	Feasibility Study required	1,000		\$106/CIL														
CF1.9	Broadland	New Sports Hall in Thorpe St Andrew	Feasibility Study required	2,700	1,900	\$106/CIL	800				2,700									
CF1.10	Broadland	Refurbishment of 3G pitch in Thorpe St Andrew	Feasibility Study required			Other														
CF1.11	Broadland	Modernisation of Hellesdon High School sports hall	Feasibility Study required			\$106/CIL														
CF1.12	Broadland	Modernisation of Aylsham High School swimming pool	Feasibility Study required			\$106														
CF1.13	Broadland	Gym and Dance Hall contribution Aylsham	Feasibility Study required			\$106														
CF1.14	Broadland	Sports Hall Provision in Reepham	Feasibility Study required			\$106														
CF1.15	Broadland	Modernisation of Sprowston High School Swimming Pool	Feasibility Study required	1,000		\$106/CIL														
CF1.16	Broadland	Modernisation of Sprowston High School Sports Hall	Feasibility Study required	1,000		\$106/CIL														
CF1.17	Broadland	A new sports hall in a growth area (such as Rackheath) co-located with a new secondary school	Feasibility Study required	2,750																
CF1.18	Broadland	A new sports hall in Acle	Feasibility Study required	2,700		\$106/CIL														
CF1.19	Broadland	New pitch provision in NEG T	Delivered by Development			\$106														
CF1.20	Broadland	Children's Playspace delivered through the development of allocations within the Growth Triangle	Delivered by development.			\$106														
CF1.21	Broadland	Informal Open Space delivered through the development of allocations within the Growth Triangle	Delivered by development. Required to fulfill HRA public access to open space requirements.			\$106														
NP1.1	Broadland	Acle Neighbourhood Plan																		
NP1.1.1 (PRI 3)	Broadland	Village Centre Public Realm Improvements inc. increasing pavement width and open space	Requires Project Brief / Feasibility			CIL and Other														
NP1.1.2 (EDU?)	Broadland	Improvements to Building and Sports Facilities at Acle High School	Requires Project Brief / Feasibility			CIL and Other														
NP1.4	Broadland	Sprowston Neighbourhood Plan																		
NP1.4.2 (CF2.?)	Broadland	Community Hub - Diamond Centre				CIL and Other		x												
NP1.4.3 (PRI 1)	Broadland	Public Realm Improvements at Wroxham Road Local Centre and Tree Planting along Wroxham Road	Requires Project Brief / Feasibility			CIL and Other														
NP1.4.4 (PRI 2)	Broadland	Public Realm Improvements inc. Traffic Calming Measures, Planting and review of on-street parking. School Lane, Sprowston	Requires Project Brief / Feasibility			CIL and Other														
NP1.5	Broadland	Strumpshaw Neighbourhood Plan																		
NP1.5.1 (CF2.?)	Broadland	Community Room and Allotments	To be delivered through development			\$106														

*Indicative timetable for delivery

Community Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost (£,000)	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding Profile														
								2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26			
NP1.5.2 (CF2.?)	Broadland	Toilet, Kitchen and Amenity Facilities at St Peters Church				CIL and Other																
HWRC1	Broadland	Home Waste Recycling Centre - Rackheath																				
HWRC1.1	Broadland	Home Waste Recycling Centre - Rackheath	Requires Project Brief / Feasibility	450		S106/CIL	450															
		Policing																				
CI 1.1	Broadland	Police Deployment Base - Vicinity of Postwick Junction	Norfolk Constabulary Broadland Command Policing Plan	TBC		Other																
CI 1.2	Broadland	Police Beat Office - Thorpe St Andrew	Norfolk Constabulary Broadland Command Policing Plan	TBC		Other																
CI 1.3	Broadland	Police Beat Office - Rackheath	Norfolk Constabulary Broadland Command Policing Plan	YNC		Other																
		Health Care																				
HC4	Broadland	Sprowston / Old Catton Health and Social Care Facility	Infrastructure Needs and Funding Study 2009	3,350		Other																
HC5	Broadland	Rackheath Health and Social Care Facility	Infrastructure Needs and Funding Study 2010	3,350		Other																
HC6	Broadland	NE Norwich - Expansion of existing Heath and Social Care Facility	Infrastructure Needs and Funding Study 2011	TBC		Other																
		CF2 Norwich Community Facilities																				
CF2.x	Norwich	Noticeboards (citywide)		10	10	CIL n'hood	0		10													
CF2.x	Norwich	Heartsease electric gym	Further work required to scope and develop project	65	65	CIL n'hood	0			65												
CF2.x	Norwich	Netherwood Green BMX / woodland play		48	48	CIL n'hood	0	24	24													
CF2.x	Norwich	Natural area improvement South of George Fox Way	Delivery 2015-16	10		CIL n'hood	0		10													
CF2.x	Norwich	Mile Cross Business Centre	Investment in employment infrastructure – project to be developed.																			
CF2.x	Norwich	Suckling Avenue Restoration	Single scheme too big for neighbourhood funding, but potential here for an HLF bid?																			
CF2.x	Norwich	Bowthorpe Park bowling green and pavillion improvements	Design required	130		City Council Capital Programme																
CF2.x	Norwich	Bowthorpe Park tennis court improvements	Design required	143		City Council Capital Programme																
CF2.x	Norwich	Bowthorpe Park multi-use games area improvements	Design required	94		City Council Capital Programme																
CF2.x	Norwich	Modernisation of Hewett School swimming pool	Feasibility Study required																			
CF2.x	Norwich	Pitch Improvement at Eaton Park	Feasibility Required	10-50k																		
CF2.x	Norwich	Improved Changing facilities and pitch improvement at Sloughbottom Park	Feasibility Required	685																		
CF2.x	Norwich	Reinstatement of NELM Pitches and Facilities	Feasibility Required																			
CF2.x	Norwich	Artificial Grass Pitch at Open Academy	Feasibility Required																			
CF2.x	Norwich	Additional Storage Space and Floodlights at Recreation Road	post 2017																			
CF2.x	Norwich	Children's Playspace, Sports Pitches and Informal Recreation Space delivered through the development of allocations	Status review of open space / play projects is required			S106																
CF3-5	South Norfolk	Community Facilites																				

*Indicative timetable for delivery

Community Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost (£,000)	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding Profile														
								2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26			
CF3.4	South Norfolk	Expansion of Long Stratton library	Awaiting developer contributions once development proceeds			S106/CIL					Major growth starts											
CF3.x	South Norfolk	New Swimming Pool and Sports Hall in Diss	Design Required	10,000-12,000	6,800-8,800	CIL/other	3,200			1,600	1,600											
CF3.x	South Norfolk	Full size Artificial Grass Pitch in Wymondham	Wymondham High School Academy masterplan	500		CIL/Other			500													
CF3.x	South Norfolk	Long Stratton Sports Hub, pitch improvements	Feasibility Required	500		CIL/Other				500												
CF3.x	South Norfolk	New Pitches North Hethersett	Delivered by Development - but uncertain whether only pitches or also changing rooms etc will be provided through the S106	?		S106/CIL			?	?												
CF3.x	South Norfolk	Artificial Grass Pitch in Diss	Design Required	500		CIL/Other				500												
CF3.x	South Norfolk	New pitches and Clubhouse in Loddon	Feasibility Required	530		CIL/Other				530												
CF3.x	South Norfolk	New pitches, AGP and Clubhouse in Poringland	Feasibility Required	1,000		CIL/Other				1,000												
CF3.x	South Norfolk	New football pitches, better drainage and changing improvements in Scole	Feasibility Required	200		CIL/Other				200												
PPS	South Norfolk	Improvements to Burston football/cricket clubhouse		30		CIL				30												
PPS	South Norfolk	Diss Cricket Club - replacement cage and nets		22		CIL				22												
PPS	South Norfolk	Improvements to Hales cricket clubhouse		130		CIL					130											
PPS	South Norfolk	Improvements to Hales bowls clubhouse		30		CIL					30											
PPS	South Norfolk	Resurfacing of Hingham tennis courts & new fencing		45		CIL				45												
PPS	South Norfolk	Improvements to Topcroft football/cricket clubhouse		30		CIL				30												
PPS	South Norfolk	Improvements to Wymondham (Ketts Park) tennis clubhouse		30		CIL				30												
PPS	South Norfolk	Improvements to Yelverton football changing facilities		30		CIL				30												
	South Norfolk	Children's Playspace, Sports Pitches and Informal Recreation Space delivered through the development of allocations	Status review of open space / play projects is required			S106																
NP2.1		Cringleford Neighbourhood Plan																				
NP2.1.3	South Norfolk	Demand for Medical / Dentistry facilities	Unlikely to be delivered other than through NHS funding																			
NP2.1.5 (PPS)	South Norfolk	3.8 hectare playing field to accommodate a cricket pitch, football pitches and Pavilion to include changing rooms.	Scheme that would deliver this playing field refused PP; appeal in progress, so timescale uncertain	?		S106				?	?	?										
NP2.1.6	South Norfolk	Cringleford Library facilities	All developers will be required to make provision for additional library facilities for the library service which serves the development. This will be funded through either a Section 106 Agreement or the Community Infrastructure Levy, except to the extent (if any) that this would render needed development unviable.	?		S106/CIL			?	?	?	?	?									
NP2.1.7	South Norfolk	Allotment and Community Orchard	A possible site is indicated on the Proposals Map. Developers (Barratts) to deliver as part of the S106 (although these discussions are not yet finalised and PP not yet issued)	?		S106				?	?											

*Indicative timetable for delivery

Emerging Neighbourhood Plan Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost (£,000)	Total Estimated Scheme Cost (£,000)	Contributory funding (£,000)	SOURCE	Funding need (£,000)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
NP1.2	Broadland	Drayton Neighbourhood Plan																		
NP1.2.1 (T)	Broadland	Improved walking and cycling routes	Requires Project Brief / Feasibility				CIL and Other													
NP1.3	Broadland	Great and Little Plumstead Neighbourhood Plan																		
NP1.3.1 (T)	Broadland	Footpath Improvement Water Lane to Great Plumstead	Requires Project Brief / Feasibility				CIL and Other													
NP1.3.2 (T)	Broadland	Cycle and Pedestrian NDR Crossing at Low Road	Requires Project Brief / Feasibility		2000		CIL and Other	2000												
NP1.3.3 (T)	Broadland	Install hard standing at Great Plumstead bus stop	Requires Project Brief / Feasibility				CIL and Other													
NP1.3.4 (T)	Broadland	Improvement at Norwich Rd, Salhouse Rd, Belt Rd and Honeycombe Rd junction	Requires Project Brief / Feasibility				CIL and Other													
NP1.3.5 (T)	Broadland	Extend Woodland Footpath along northern and western boundary of Thorpe End.	Requires Project Brief / Feasibility				CIL and Other													
NP2.2		Mulbarton Neighbourhood Plan																		
NP2.2.1 (T)	South Norfolk	Transport Plan including bus stops, cycle parking or pavements	NP in production - Reg 14 current stage				CIL													
NP2.2.2 (T)	South Norfolk	Car Parking management measures to local schools and Doctor's surgery.	NP in production - Reg 14 current stage				CIL													
NP2.2.4 (T)	South Norfolk	Implementation of reduced traffic speed schemes	NP in production - Reg 14 current stage				CIL													
NP2.2.5 (T)	South Norfolk	Cycle routes to Hethel Engineering Centre/ Lotus and Norwich	NP in production (Reg 14 current stage) NOTE Project may fit with aims of the GNIP Hethel GI project P9.4				S106 / CIL possible													
NP2.2.6 (T)	South Norfolk	Resited Doctor's surgery	NP in production - Reg 14 current stage																	
NP2.2.7 (T)	South Norfolk	Mulbarton Common, enhancements	NP in production - Reg 14 current stage				CIL													

*Indicative timetable for delivery

Education Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost (£,000)	Contributory funding and Source		To fund	Funding profile												
					S106	Basic Need		2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	
	Broadland	Blofield Primary Extension to 315 - Feasibility	Feasibility only. Unfunded project	50	tbd	tbd	tbd	50												
EDU1/2	Broadland	Blue Boar Lane New (commissioned) 420 Primary		6,400	4,300	2,100	0		1,280	2,560	2,560									
	Broadland	Little Plumstead Primary Extension to 420	Project for 420 on hold until further growth.	3,000	400		2,600				3,000									
EDU5	Broadland	Beyond Green New (commissioned) 420 Primary #1		6,400	0	0	6,400				1,280	2,560	2,560							
	Broadland	Hellesdon New (relocated an/or enlarged) 420 Primary		6,400	0	0	6,400				1,280	2,560	2,560							
EDU6	Broadland	Beyond Green New (commissioned) 420 Primary #2		6,400	0	0	6,400						1,280	2,560	2,560					
EDU7 (9?)	Broadland	North Norwich New (commissioned) Secondary		26,000	0	13,000	13,000							2,600	2,600	3,900	3,900			
EDU1/2	Broadland	Rackeath New 420 Primary #1		6,400	0	0	6,400									1,280	2,560	2,560		
EDU1/2	Broadland	Rackeath New 420 Primary #2		6,400	0	0	6,400									1,280	2,560	2,560		
EDU1/2	Broadland	Land East of Broadland Business Park New 420 Primary		6,400	0	0	6,400									1,280	2,560	2,560		
EDU1/2	Broadland	South of Salhouse Road New 420 Primary		6,400	0	0	6,400									1,280	2,560	2,560		
NP1.1.5	Broadland	Improvement to existing Pre-School Facility at Primary School	Requires Project Brief / Feasibility																	
	Norwich	Catton Grove Primary Extension to 630	Underway	2,000	0	2,000	0	x	x											
	Norwich	Bigbold Primary Extension to 630		2,249		2,249	0	49	421	1,779										
	Norwich	Sparhawk Infants Extension to 180		325		325	0		325											
EDU11	Norwich	Norwich Central New (commissioned) Primary 210		4,100	0	0	4,100					820	1,640	1,640						
	South Norfolk	Poringland Primary Extension	Project underway to replace existing mobiles with permanent. Awaiting further housing growth	885		885	0	714	100											
	South Norfolk	Wymondham High Extension	Project underway to deliver 4 classbase extension					40	920											
	South Norfolk	Queen's Hill Primary Extension to 630	excludes land purchases	5,500		5,500	0	x	x	x										
	South Norfolk	Roydon Primary Extension to 315	Current phase to 315 with view to 420 depending on growth in Roydon/Diss area	3,000		3,000	0	60	2,000	940										
	South Norfolk	St Augustine's Primary Extension to 315	Basic need project to deliver expansion to 315	870		870	0		76	794										
S106	South Norfolk	Trowse New (relocated and/or enlarged) 210 Primary		4,300	1,100	3,200	0		860	1,720	1,720									
	South Norfolk	Brooke New (relocated) 150 Primary	Capital maintenance funding	3,000	0	3,000	0			600	1,200	1,200								
EDU21/S106	South Norfolk	Hethersett New (commissioned) 315 Primary		5,100	4,500	600	0			1,020	2,040	2,040								
S106	South Norfolk	Wymondham High Extension		10,000		10,000	0			2,000	2,000	3,000	3,000							
EDU14/S106	South Norfolk	Wymondham New (commissioned) 315 Primary		5,100	5,100	0	0			1,020	2,040	2,040								
EDU7/8?	South Norfolk	Costessey New (commissioned) 210 Primary		4,500	790	3,710	0			900	1,800	1,800								
EDU22	South Norfolk	Easton Primary Extension to 420	Modular programme completed for Sept 14. Awaiting further housing growth for permanent capital project	2,500	0	0	2,500					2,500								
EDU25	South Norfolk	Long Stratton New (commissioned) 420 Primary		6,400	0	0	6,400					1,280	2,560	2,560						
EDU18 (NP2.1)	South Norfolk	Cringleford New (commissioned) 420 Primary	The primary school and pre-school provision will be funded by the developers (S106 or CIL or both) Land transfer S106	6,400	0	0	6,400					1,280	2,560	2,560						
S106 (NP2.1)	South Norfolk	Hethersett High Extension	The future improvement of the catchment high school will be funded by the developers Land transfer S106	5,000		5,000	0						x	x	x	x				

*Indicative timetable for delivery

Green Infrastructure Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding profile £'000												
									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	
GI N	Norwich	Norwich																			
GI N.1	Norwich South Norfolk	River Wensum Parkway (City and SNDC)	Feasibility work through the River Wensum Strategy Partnership	410			S106/CIL														
GI N.1.1 (GPS)	Norwich	Riverside Walk Improvement work to river banks, seating and interpretation	Delivery underway		70	19	S106	51	40	30											
GI N.1.2	Norwich	Riverside Walk Missing Link at Playhouse	Feasibility		250		DEV														
GI N.2 (CF2.x)	Norwich	Replacement/enhancement of Urban Street Trees	Pending review of green infrastructure		50	50	CIL N'Hood	0		50											
GI N.3	Norwich	Various open space / play projects within the Norwich Urban Area	Status review of open space / play projects is required (total may reduce)	2,266	1,243		S106 - various pots			0											
GI N 4	Norwich	Cycle routes - Carrow Bridge to to Deal Ground riverside path	Ready to Commence Delivery	350		250	Sustrans / CIL	100			350										
GI N.5 (CF2.x)	Norwich	Lakenham Way (Phase 1 – Nature Trail) - disused railway line running from Queen's Rd (nr. Sainsbury's) south out of the city	Ready to Commence Delivery		7	7	CIL N'Hood	0		0											
GI NFN	Area-wide	Norwich Fringe North																			
GI NFN.1	Broadland	St Faiths to Beeston Connections					CIL / Dev (Beeston Park)							X							
GI NFN.2	Broadland	Orbital Cycle Route - NEG1 to Norwich Airport	Delivered by Development				S106/S278/CIL														
GI NFN.3	Broadland	Cycle and Pedestrian Access from NDR Crossing Points to Wider Countryside	Feasibility Study 2019/2020				CIL							X							
GI NFN.4	Broadland	Broadland Gate GI Linkages																			
GI NFN.5	Broadland	Delivery of Open Space inc. Play Space and Sports Pitches - North East Norwich	Delivered by Development				S106				0	0	0	0	0	0	0	0	0	0	0
GI NFN.5.1 BDC ref GI.S.8.1	Broadland	Delivery of Sport Pitches, Childrens Play and Informal Open Space at White House Farm	Delivered by Development				S106			0	0	0	0								
GI NFN.5.2	Broadland	Delivery of Sport Pitches, Childrens Play and Informal Open Space at Beeston Park	Delivered by Development				Dev	0					0						x		
GI NFN.5.3	Broadland	Delivery of Sport Pitches, Childrens Play and Informal Open Space at Brook Farm	Delivered by Development																		
GI NFN 5.4	Broadland	Delivery of Sport Pitches, Childrens Play and Informal Open Space at Land East of Buxton Road	delivered by development				S106					0	0	0							
GI NFN.5.5	Broadland	Delivery of Sport Pitches, Childrens Play and Informal Open Space at Pinebanks and Griffin Lane	delivered by development				S106							x		x			x		
GI NFN 6		Connections between P7 and Marriott's Way/Wensum and P8 NW Forest & Heath																			
GI NFN 6.1	Broadland	Canhams Hill open space/GI provision as part of proposed development with opportunities to maintain and enhance the green space between Hellsedon and Drayton at Canhams Hill CWS. Included in feasibility study For Drayton & NW Forest & Heaths	Potentially Delivered by Development; Part of Feasibility Study For Drayton & NW Forest & Heaths				Dev	0													
GI NFN 6.2	Broadland	GI / Open space links between emerging and future development Hellsedon Hospital site and the Royal Norwich Golf Club. Included in feasibility study For Drayton & NW Forest & Heaths	Main parts delivered by development, links needed				Dev / CIL							X							
GI NFN 6.3 BDC REF X 9	Broadland	Drayton Drewray (Status and & Accessibility)	Part of Feasibility Study For Drayton & NW Forest & Heaths																		
GI NFN 7 BDC REF GI S7.1	Broadland	North -South GI Connectivity: Catton, Sprowston Spixworth	To be delivered through development		S106																
GI NFN 8 BDC Ref GI S10.2	Broadland	West-East GI Connectivity: Catton, Sprowston Spixworth	To be delivered through development		S106																
GI NFN 9 BDC Ref; GX15	Broadland	Improve Facilities at King George V Playing Field	Requires Project Brief / Feasibility		BDC / CIL and Other	TBC															
GI NFS	Norwich South Norfolk	Norwich Fringe South																			
GI NFS.1	Norwich	Norwich Fringe South, The Yare Valley Linear Park (Norwich and SNDC)	Feasibility 2015-19				Parts have been funded														
GI NFS.1.1	Norwich	Lakenham Common and Yare Valley connections (Harford Tip)	Feasibility - Plans drawn up by Norwich City previously, need to be revised.		15	0															

*Indicative timetable for delivery

Green Infrastructure Projects

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									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
GI NFS.1.2	South Norfolk	New Country Park; 'Whitlingham in the West' at Bawburgh/Colney Lakes	Allocated in the proposed submission SSAPD. Discussions with consultants looking at landuse and green infrastructure on behalf of landowners	650(GIDP)		24	S106 / other													
GI NFS.1.3	South Norfolk	Lodge Farm Phase 2 Green Infrastructure SW Norwich (Yare Valley)	Construction Commenced, contribution expected 2015/16. Project uncertain, 16/17 project development - see notes.			25	S106			0										
GI NFS.1.4 (GP 3)	Norwich	Yare Valley; Marston Marsh footpath and access works and habitat improvement	Delivery 2014-15		0	30	CIL	0	30											
GI NFS.1.5	Norwich	Parkway Phase 1	Majority of Phase 1 completed. The need for remaining elements needs to be assessed; estimated project cost probably inaccurate	38,500 (GIDP)	-															
GI NFS.1.6	Norwich	Norwich Crossing & Bridges – Whitlingham																		
GI NFS.1.6.1	Norwich	Norwich Crossing & Bridges – Whitlingham (Phase 1) Wensum Bridge	Planning consent in place. Concurrent with delivery of site 2016-19.	1.75M (GIDP)	-		developer funded					0	0							
GI NFS.1.6.2		Norwich Crossing & Bridges - Whitlingham (Phase 2) Yare Bridge	Requires feasibility and scheme development				CIL						x							
GI NFS.1.7	Norwich	UEA to Eaton Boardwalk extension	Requires Project Brief / Feasibility.	100,000 (GIDP)			potentially developer funded/CIL													
GI NFS.1.8 (GP 4)	Norwich	Yare Valley; Earham Millennium Green Enhancements	Delivery 2014-15			-		0	15											
GI NFS.1.9 (GP 8)	Norwich	Earham Millennium Green Path Improvements	Ready to start design / implementation				CIL			66										
GI NFS.1.10	Norwich South Norfolk	Colney river crossing (NRP to Threescore)	May be a High Priority but a realistic cost needs to be assessed. To come forward in line with development	80-500 (Dependant on Spec)			CIL	80-500 (Dependant on Spec)				x								
GI NFS.1.11	Norwich	Creation of river side path / boardwalk in Eaton near Church Lane	Requires Project Brief / Feasibility				CIL													
GI NFS.2	Norwich	Yare and Wensum Valleys Link (Norwich, Broadland and SNDC)	Needs scheme development	200		-														
GI NFS.3 (GP 7)	South Norfolk	Norfolk & Norwich Hospital Health Wood Walks	Delivery 2014-16		40		CIL and other	40	20	20										
GI NFS.3.1 (NP 2.1 and GI NFS.7.3)	South Norfolk	Norfolk & Norwich Hospital Health Wood Walks Phase 2; Connections to wider communities	Negotiations with landowners and developers (Barratts at Cringleford) to take place. Initial feasibility work £20k							20										
GI NFS.4	Norwich	Bowthorpe open space investment plan	Delivery 2014-18	813			Some funding required in addition to s106													
GI NFS.4.1	Norwich	Threescore Development; Village Green	Bowthorpe open space investment plan - Delivery 2014-18		110		Planning condition													
GI NFS.4.2	Norwich	Threescore Development; Community Gardens	Bowthorpe open space investment plan - Delivery 2014-18		54		Planning condition													
GI NFS.4.3	Norwich	Threescore Development; Community Green	Bowthorpe open space investment plan - Delivery 2014-18		435		Planning condition													
GI NFS.4.4	Norwich	Threescore Development; Community Green-Marlpit link	Bowthorpe open space investment plan - Delivery 2014-18		80		Planning condition													
GI NFS.4.5	Norwich	Threescore Development; swale linear park	Bowthorpe open space investment plan - Delivery 2014-18		92		Planning condition													
GI NFS.4.6	Norwich	Threescore Development; SUDS lagoons	Bowthorpe open space investment plan - Delivery 2014-18		92		Planning condition			0										
GI NFS.4.7	Norwich	Threescore Development; shelter belt, Marlpit, Double hedgerow	Bowthorpe open space investment plan - Delivery 2014-18		236		Planning condition													
GI NFS.4.8	Norwich	Threescore Development; street trees	Bowthorpe open space investment plan - Delivery 2014-18		113		Planning condition													

*Indicative timetable for delivery

Green Infrastructure Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding profile £'000													
									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26		
GI NFS.4.9	Norwich	Threescore Development; eastern edge	Bowthorpe open space investment plan - Delivery 2014-18		64		Planning condition															
GI NFS.4.10	Norwich	Threescore Development; southern edge	Bowthorpe open space investment plan - Delivery 2014-18		102		Planning condition															
GI NFS.4.11	Norwich	Threescore Development; Earlham Green Lane	Bowthorpe open space investment plan - Delivery 2014-18		62		Planning condition															
GI NFS.4.12	Norwich	Threescore Development; Bowthorpe historic parkland	Bowthorpe open space investment plan - Delivery 2014-18		94		S106															
GI NFS.4.13	Norwich	Threescore Development; The Runnell	Bowthorpe open space investment plan - Delivery 2014-18		269		S106															
GI NFS.4.14	Norwich	Threescore Development; Bowthorpe Southern park	Bowthorpe open space investment plan - Delivery 2014-18		81		S106															
GI NFS.4.15	Norwich	Harry Barber Close community garden	Bowthorpe open space investment plan - Delivery 2014-18		80		CIL															
GI NFS.4.16	Norwich	Smeat St community garden	Bowthorpe open space investment plan - Delivery 2014-18		72		Developer															
GI NFS.4.17	Norwich	Chapel Break allotments	Bowthorpe Open Space investment plan - Design required		135		City Council Capital Programme															
GI NFS.4.18	Norwich	Waldegrave community garden	Bowthorpe open space investment plan - Delivery 2014-18				Community led external fundraising															
GI NFS.4.19	Norwich	Rawley Road community garden	Bowthorpe open space investment plan - Delivery 2014-18				Community led external fundraising															
GI NFS.4.20	Norwich	Bowthorpe and Earlham marshes paths	Bowthorpe Open Space investment plan - Design required		67		S106						0									
GI NFS.4.21	Norwich	Yare Valley path northern extension	Bowthorpe Open Space investment plan - Design required		91		S106						0									
GI NFS.4.22	Norwich	Bunkers Hill wood	Bowthorpe Open Space investment plan - Design required		57		S106					0	0									
GI NFS.5	South Norfolk	Queens Hill Country Park	Permitted - SNC taking on management imminently. Feasibility project to connect to Marriotts Way				S106															
GI NFS.6 (GP 2)	Norwich	Danby Wood	Ready to commence. Delivery 2014-15		35	0		35	35													
GI NFS.7 (NP 2.1)	South Norfolk	Cringleford Neighbourhood Plan	Adopted NP: Projects needs to be worked up in readiness for development commencing and to avoid pressure on nearby habitat																			
GI NFS.7.1 (NP 2.1)	South Norfolk	Cringleford Landscape Protection Zone (ENV1 of Neighbourhood Plan)	Delivered by Development				S106															
GI NFS.7.2 (NP 2.1)	South Norfolk	Cringleford Gateway Tree Belt (ENV2 of Neighbourhood Plan)	Delivered by Development				S106															
GI NFS.7.3 (NP 2.1.4 and GI NFS 3.1)	South Norfolk	Cringleford Walking and Cycling (SCC3 of Neighbourhood Plan)	Delivered by Development (linked with NFS 3.1)				S106															
NFS.7.4	South Norfolk	Future Strategic Connections	CIL				CIL															
GI P1	Broadland Norwich	Norwich to The Broads (Mousehold Heath through the NEG to the Broads)																				
GI P1.1	Broadland	Mousehold Heath and NE Norwich Heathlands	Part of corridor is covered by feasibility study: Blue Boar to NE Rackheath; other project may be considered in future		53000 (GIDP)																	
GI P1.1.2	Broadland	Feasibility Study: NE Norwich Landscape Connectivity - GI connections Blue Boar Lane to NE Rackheath	Feasibility 15/16				CIL		5													
GI P1.2	Broadland	North Rackheath Park – Broads Buffer Zone	delivered by development				S106															
GI P1.3		Pedestrian/Cycle Recreation																				
GI P1.3.1 (T31 and T38)	Broadland	Cycle routes - Thorpe St Andrew to Wroxham (Broadland Way) and Sprowston to Rackheath (Pink Pedalway)	See T31 and T38					X			X	X		X	X	X						

*Indicative timetable for delivery

Green Infrastructure Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding profile £'000											
									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
GI P1.3.2	Broadland	Three Rivers Way; Connection to Broadland Way/Norwich Cycle Network	Three Rivers Way funded. Funding required for connection to Broadland Way/Norwich Cycle Network				CIL				?									
GI P1.4	Broadland	Sprowston Manor Golf Course - Retention and protection of bat roosts	Mainly protection; Requires Project Brief				DEV						0							
GI P1.5 (GP 1)	Broadland	Early delivery of Public Access to Harrisons Plantation, The Breck and Boar Plantation. (Phased from 14/15 to 16/17)	Management plan currently under development for early delivery of land transfer and public access. Currently Secured through S106 for 20080367		35		S106 (forward funded by CIL)	35	15	5	5	5	5							
GI P1.6	Broadland	Enhancement of Newman Woods	Part-delivered. Further elements being worked up			-	POD				0									
GI P1.7	Broadland	North Sprowston and Old Catton GI Linkages - Focus on Church Lane	Requires Project Brief				Dev (Beeston Park)					0	0		0	0	0	0	0	0
GI P1.8 (BDC ref GI S 12.2)	Broadland	Triangle Wood - Protection and potential for public access	Requires Project Brief / Feasibility				CIL								X					
GI P1.9 (BDC ref GI S 10.1)	Broadland	Enhancements habitat connectivity Racecourse Plantation to Harrison Plantation	Requires Project Brief / Feasibility				S106				0	0	0	0						
GI P1.10 (BDC ref GI S 11.1)	Broadland	Parkland NE of Thorpe End	Requires Project Brief / Feasibility				S106				0	0	0	0						
GI P2	Broadland Norwich	Thorpe Ridge to The Broads via North Burlingham					CIL and other													
GI P2.1	Broadland Norwich	Thorpe Ridge - Protection and enhancement of woodlands and provision of public access; Feasibility Study	Brief written for feasibility work 15/16							5										
GI P2.1.1	Broadland	Management of Weston Wood (Ancient Woodland). Pinebanks/Griffin Lane GI and Woodland Management Plans.	Ancient Woodland Management Plan to be produced and implemented on Pinebanks site secured through the grant of planning permission.				S106	0			0	0								
GI P2.1.2	Broadland Norwich	Tree planting & management of existing street, garden, boundary and woodland trees for ecological connectivity	Feasibility required																	
GI P2.2	Broadland	Thorpe Woodlands - protection of wildlife interest & Connectivity (E Norwich Community Woodlands)	Through LP policy					0												
GI P2.3	Broadland	Plumstead to Burlingham Green Connectivity	Requires Project Brief / Feasibility				CIL							X						
GI P2.4	Broadland	Acle Green Infrastructure Enhancements	Feasibility				CIL				5									
GI P2.4.1 (BDC ref GI X1)	Broadland	Burlingham Woods enhancements	Project Development				S106			0										
GI P2.4.2 (BDC ref GI X1)	Broadland	Roman Wood, Acle Enhancements	Project Development				CIL													
GI P2.4.3 (BDC ref GI X1)	Broadland	Links and improvements to Weavers Way Trail (Norfolk Trails) at Acle / Damgate	Project Development				CIL													
GI P2.4.4 (BDC ref GI X1 and X2)	Broadland	Jubilee Woods, Acle - Access and Enhancements	Project Development				CIL													
GI P3	Area-wide	Yare Valley (Norwich to Yarmouth)																		
GI P3.1	Broadland	Norwich to Yarmouth Strategic Study	Feasibility Study				CIL					X								
GI P3.2	South Norfolk	Loddon GI Projects	Local GI Strategy to be developed in 2016																	
GI P3.3	South Norfolk	Wherryman's Way improvements; Hardley Flood	Requires feasibility and flood risk assessment work with Environment Agency (£3-4k for immediate footpath improvements and £6-7k for FRA work. Further improvements may be identified following FRA work)		0		CIL				0									
GI P4	South Norfolk	Tas Valley																		
GI P4.1	South Norfolk	Improvements to the walking network and enhanced trails to the south of Norwich; Safe access across A47 & Rail	Feasibility work looking into access across the A47 and other barriers																	

*Indicative timetable for delivery

Green Infrastructure Projects

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									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
GI P4.2	South Norfolk	Long Stratton Connectivity	To be included within the Tas Valley study, and potentially delivered through development																	
GI P4.3	South Norfolk	Tas Valley GI Study - to identify projects in and around the Norwich suburbs, Swainsthorpe, Newton Flotman, Tasburgh, Long Stratton	Study to be carried out in 2016																	
GI P5	South Norfolk	South West																		
GI P5.1	South Norfolk	GI associated with Cycle link between Hethersett and Norwich Research Park (T31.4)	see T31.4 Preparation 2014/15																	
GI P5.2	South Norfolk	Improvements to the walking network and enhanced trails around Wymondham.	Feasibility - Preparation 2014/15																	
GI P5.3 (T24.2)	South Norfolk	Cycle link between Hethersett and Wymondham	Preparation 2015/16																	
GI P5.4	South Norfolk	Wymondham GI Projects (CWS around Wymondham)	Project identification (Wymondham GI group)				\$106/CIL													
GI P5.5	South Norfolk	Ecological network projects based on linking ancient woodland patches south of Wymondham	Feasibility to take place 15/16																	
GI P5.6	South Norfolk	Wymondham - Tuttle Lane enhancements, trees and hedging. Feasibility/sign work, supply and planting of hedges and initial establishment costs	Requires Project Brief / Feasibility		30						30									
GI P5.7	South Norfolk	Wymondham - mitigation for Silfield Nature reserve (County Wildlife Site). Remedial works being identified. Works not yet costed - this will be done in 15/16. Timetable therefore also not yet known	Requires Project Brief / Feasibility		40								40							
GI P6	Broadland South Norfolk	River Tud & Yare (West)																		
GI P6.1	Broadland South Norfolk	River Tud & Yare Strategic Study Phase 1	Feasibility. Localised GI study to scope links to the extended Yare Valley and associated development i.e Easton, Little Melton, Bawburgh, Queens Hill																	
GI P7	Area-wide	Marriott's Way and the Wensum																		
GI P7.1	Norwich South Norfolk	Marriott's Way improvements																		
GI P7.1.1 (GP 6)	Norwich South Norfolk	Marriott's Way (City End) & Vision	Delivery 2014-15		60		CIL	60	60											
GI P7.1.2 (GP 9)	Norwich South Norfolk	Marriott's Way (Phase 2)	Delivery 2015-16		250		CIL	250		250										
GI P7.1.3	Norwich South Norfolk	Marriott's Way (Phase 3)	Delivery in the future																	
GI P7.1.4	Norwich	Barn Road entrance, Public realm improvements	Ready to comence Delivery		50		CIL	50			50									
GI P7.1.5	Norwich	Mile Cross Road access improvements	Ready to comence Delivery		30		CIL	30			30									
GI P7.1.6	Norwich	Sloughbottom Park – Andersons Meadow section improvements (path widening, tree works, drainage works and landscaping)	Ready to comence Delivery		250		CIL	250			250									
GI P7.1.7	Norwich	Hellesdon Road – Sloughbottom Park surfacing Enhancements	Ready to comence Delivery		25		CIL	25			25									
GI P7.1.8	Norwich	Access improvements to Burnet Road (Sweetbriar Industrial estate)	Ready to comence Delivery		10		CIL	10			10									
GI P7.1.9	South Norfolk	Marriott's Way - Improved connectivity. Additional permissive paths to permit circular walks, improved habitat with hedge planting to secure agricultural land	Feasibility required to prepare for delivery in 16-17				CIL	72			72									
GI P7.1.10	South Norfolk	Marriott's Way - improving gateways and surfacing throughout to facilitate use by all, including pushchairs etc	Feasibility required to prepare for delivery in 16-17				CIL	620			300	320								
GI P8	Broadland	North West Forest and Heath					CIL and other													
GI P8.1 (BDC refs GI X9 - X14)	Broadland	North West Norwich Forest Connections including Drayton and Thorpe Marriott	Feasibility 15/16							0										
GI P9	Area-wide	GNGB Primary Linkage Corridor (Outer Ring)																		
GI P9.1	Broadland	Improvement to walking in the NE; in relation to NDR	Requires project brief / feasibility				CIL													

*Indicative timetable for delivery

Green Infrastructure Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need (£,000)	Funding profile £'000											
									2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
GI P9.2	Broadland	Yare to Growth Triangle Connections	Requires project brief / feasibility				CIL							X						
GI P9.2.1 (BDC ref GI X 5 / X6)	Broadland	Blofield and Brundall Green Network (Witton Run)	Requires project brief / feasibility				CIL					X								
GI P9.2.2	Broadland	Brundall to NEGT Connection	Feasibility				CIL						X							
GI P9.2.3 (BDC ref GI S 12.3)	Broadland	Landscaping of Green Lane East and Brook Farm Road Links	To be delivered by development				Dev	0	0	0	0	0								
GI P9.2.4 (BDC ref GI S 12.4)	Broadland	Landscaping of Middle Road, Gt & Lt Plumstead	Delivered by development (NDR / Brook & Laurel Farm)				Dev	-	0	0	0									
GI P9.2.5 (BDC ref GI S 13.1)	Broadland	Enhanced landscaping alongside Green Lane and Smees Lane	Delivered by development (NDR / Brook & Laurel Farm / AAP Allocation GT11)				Dev			0										
GI P9.2.6 (BDC ref GI S 12.1)	Broadland	Informal Open Space south west of Thorpe End	Delivered by development (NDR / Brook & Laurel Farm)							0										
GI P9.2.7 (BDC Ref GI S13.2)	Broadland	North-South GI Connectivity Gt & Little Plumstead/Poswick: Thorpe Woodlands to Smees Lane	Delivered by development (NDR / Brook & Laurel Farm / AAP Allocation GT11)							0										
GI P9.3	Broadland	Bure Valley Blue Way					CIL							X						
GI P9.4	South Norfolk	Hethel Green Infrastructure and Access Improvements	Needs Development																	
GI P9.5	South Norfolk	GI projects around Poringland. Connections through Brundall to NEGT	Local GI Strategy to be developed in 2016																	
GI S	Area-wide	Secondary Corridors																		
GI S.1	Broadland	Brundall to Acle Green Network	Requires Project Brief / Feasibility				CIL							X						
GI S.2	Broadland	Lenwade to Hevingham Secondary Corridor	Requires Project Brief / Feasibility				CIL							X						
GI S.3	Broadland	Haveringland to Cawston Secondary Corridor	Requires Project Brief / Feasibility				CIL							X						
GI S.4	Broadland	Broadland East to West Secondary Corridor Via Marsham	Requires Project Brief / Feasibility				CIL							X						
GI S.5	Broadland	Buxton Heath to Aylsham Secondary Corridor	Requires Project Brief / Feasibility				CIL							X						
GI S.6	Broadland	Hevingham to Thorpe Marriott Secondary Corridor	Requires Project Brief / Feasibility				CIL							X						
GI S.7	South Norfolk	Tas Valley to Norfolk Fenlands	Requires Project Brief / Feasibility																	
GI NDR		NDR MITIGATION																		
GI NDR 1 (BDC Ref GI S.7.2, and T1)	Broadland	NDR Mitigation (Culvert north of Redhall Farm)	Delivered by NDR	DfT / CIF / CIL							0	0								
GI NDR 2 (BDC Ref GI S.9.1 and T1)	Broadland	NDR Mitigation (Bat gantry and Culvert north of Garden Plantation)	Delivered by NDR	DfT / CIF / CIL							0	0								
GI NDR 3 (BDC Ref GI S.11.2 and T1)	Broadland	NDR Mitigation (Culvert and new tree belt north of Sprowston Wood)	Delivered by NDR	DfT / CIF / CIL							0	0								
GI NDR 4 (BDC Ref GI S.12.5 and T1)	Broadland	NDR Mitigation (Bat Gantry, Culvert and Brown Bridge NDR Middle Road Crossing)	Delivered by NDR	DfT / CIF / CIL							0	0								
GI NDR 5 (BDC Ref GI S.13.3 and T1)	Broadland	NDR Mitigation (Bat Gantry and Culvert at Smees Lane)	Delivered by NDR	DfT / CIF / CIL							0	0								

*Indicative timetable for delivery

Transport Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
T1	Broadland	NDR							13,250	27,650	63,500	16,680	1,000							
T2	Broadland	Postwick Junction						0	16,600											
T2a	Broadland	Postwick Hub	Under construction				DfT/CIF	0												
T2b	Broadland	Park and Ride Improvements					DfT/CIF	0												
T3	South Norfolk	Long Stratton			20,000	10,000	Developer (50%)	10,000			5,000	10,000	5,000							
T3.1	South Norfolk	Long Stratton Bypass					Incl above													
T3.2	South Norfolk	Hempnall Crossroads					Incl above													
T3.3	South Norfolk	Long Stratton town centre enhancements					Incl above													
T4	South Norfolk	Thickthorn	RIS Needs scheme development	85,000	85,000	85,000	HA Capital	0				15,000	25,000	25,000	20,000					
T4.2	South Norfolk	Thickthorn park and ride expansion	Land secured from S106																	
T5	South Norfolk	Longwater																		
T5.1	South Norfolk	Longwater Scheme Development			2,000	2,000	LGF			750	750	500								
T5.2	South Norfolk	Longwater walk/cycle																		
T6	South Norfolk	Norwich Research Park expansion, B1108 and other transport improvements	NRP expansion permitted and under construction	13,000			Government grant, S106, NRP													
T7	Norwich	City Centre Measures		7,725																
T7.1	Norwich	POW Rd, Rose Lane, Ag Hall Plain			5,100	3,100	LGF/CIL	2,000				1,100	2,000	2,000						
T7.2	Norwich	Tombland	part implemented																	
T7.3	Norwich	Golden Ball Street / All Saints Green Scheme Development			125	125	NCC Revenue		125											
T7.4	Norwich	Exchange Street closure																		
	Norwich	Chapelfield North / St Stephen's Street	complete																	
	Norwich	Grapes Hill bus lane	complete																	
	Norwich	St Augustines Street (by Sussex Street) zebra crossing	complete																	
T8	Broadland	BRT Fakenham Road/Drayton High Road (including BRT and cycling)																		
	Broadland Norwich	Fakenham Rd BRT Feasibility (Scheme Identification) - revenue			30	30	NCC Revenue				30									
T9	Norwich South Norfolk	Dereham Road Sustainable Transport Corridor (including BRT and cycling)		3,690																
T9.1	Norwich South Norfolk	Guardian Road Junction Feasibility			1,650	1,650	LGF/CIL	-	50	50	50	750	750							
T9.2	Norwich South Norfolk	Extension to Longwater/Easton Scheme Identification (BRT/Green Pedalway)			40	40	NCC Revenue		20	20										
T10	Broadland Norwich	Yarmouth Road Sustainable Transport Corridor (including BRT and cycling)		10,000																
T10.1 (a)	Broadland Norwich	Yarmouth Rd Sustainable Transport Corridor Scheme Identification (BRT/Green Pedalway)			20	20	NCC Revenue			20										
T10.1 (b)	Broadland Norwich	Phase 1 Delivery			tbd	tbd														
T10.2	Broadland Norwich	Phase 2 Delivery			tbd	1,000	S106													
T11	Broadland Norwich	Salhouse Rd Sustainable Transport Corridor (including BRT and cycling)		4,600																
	Broadland Norwich	Salhouse Rd Sustainable Transport Corridor Scheme Identification (BRT/Pink Pedalway)			30	30	NCC Revenue		30											
	Broadland Norwich	Salhouse Rd Corridor Scheme delivery Phase 1			400	400	LGF/CIL				400									
	Broadland Norwich	Salhouse Rd Corridor Scheme delivery Phase 2																		
T12	Broadland Norwich	A140 Sustainable Transport Corridor (including BRT and cycling)		1,929																
T12.1	Broadland Norwich	A140 Corridor scheme identification including analysis between City Centre and Harford (BRT/Yellow Pedalway)			60	60	NCC revenue			60										

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Transport Projects

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T13 and T14	Norwich South Norfolk	A11/B1172 Sustainable Transport Corridor (including BRT and cycling)		1,160																
T13 and T14	Norwich South Norfolk	A11 sustainable transport corridor scheme identification (BRT/Pink Pedalway)			60	60	NCC Revenue		60											
T13.1	Norwich South Norfolk	Roundhouse Way Bus Interchange			500	500	LGF/CIL			50	450									
T13.2	Norwich South Norfolk	Eaton interchange			100	100	LGF/CIL			25	75									
T14.1	Norwich South Norfolk	B1172 Bus/Cycle enhancements			250	250	LGF/CIL				250									
	Norwich South Norfolk	UEA Transport Interchange			150	150	LGF				150									
	Norwich South Norfolk	A11/ORR Daniels Road junction improvement and cycle lanes			2,000	2,000	LGF					200	800	1,000						
	Norwich South Norfolk	Cycle link extension to Wymondham			1,300	1,300	LGF				300	800	200							
	Norwich South Norfolk	Eaton Centre to Newmarket road south slip road cycle facilities			300	300	LGF				300									
	Norwich South Norfolk	Toucan crossing on Newmarket Road between Poplar Ave and Unthank Road			200	200	LGF				200									
	Norwich South Norfolk	A11 north slip road to Cringleford cycle track			50	50	LGF				50									
T15	Broadland	NE Norwich link road		14,250		14,250	Developer				6,000	5,000		3,250						
T15.1	Broadland	Link road BBP to Plumstead Rd	Delivered through development (BFLF)				\$106/\$278				6,000									
T15.2	Broadland	Link Road Plumstead Rd to Salhouse Rd	Needs scheme development				\$106/\$278			5		x	x							
T15.3	Broadland	Link road Salhouse Rd to Wroxham Rd	Delivered through development (WHF)				\$106/\$278				x			x						
T15.4	Broadland	Link Road Wroxham Road to B1150	Delivered through development (NS&OC)				\$106 / \$278			x	x									
T15.5	Broadland	Link road B1150 to St Faiths Rd	Delivered through development (NS&OC)				\$106/\$278				x	x								
T15.6	Broadland	St Faith's Road to Airport Industrial Estate Transport link	Feasibility Underway		tbc	tbc	\$106/\$278/CIL/P OD	tbc			x		x							
T15.6.1	Broadland	Scheme Identification	Feasibility Underway		20	20	NCC Revenue		20											
T15.6.2	Broadland	Delivery	Feasibility Underway		tbc	1,000	Developer	tbc			1,000		x							
T15.7	Broadland	Cycle Links Plumstead Road to Green Lane Crossing	Requires Project Brief / Feasibility				\$106						x							
T15.8	Broadland	Cycle Links Plumstead Road to Salhouse Road					\$106/\$278						x							
T15.9	Broadland	Cycle Links NS&OC Wroxham Road junction to WHF Road Link Junction	Requires Project Brief / Feasibility				CIL and other							x						
T16	South Norfolk	A140 south Sustainable Transport Corridor (including Core Bus Route and cycling)																		
T12.1 (inc above)	South Norfolk	A140 Corridor scheme identification including analysis between City Centre and Harford (BRT/Yellow Pedalway)			inc above	inc above	inc above													
T16	South Norfolk	Bus priority Harford A47 Junction			1,750	1,750	LGF/CIL				100	100	1,100	450						
(NP2.2)	South Norfolk	Improvement at the B1113/ A140 Harford Bridge junction																		
T19	Broadland	North Walsham Road Core Bus Route Enhancements																		
T19.1	Broadland	North Walsham Road Core Bus Route Enhancements Scheme Identification			10	10	NCC Revenue			10										
T19.2	Broadland	North Walsham Road Core Bus Route Enhancements Delivery			tbd?	tbd?	Developer													
(EDU2)	Broadland	Re-routing of North Walsham Road?	Delivered by NS & OC development				\$278/LIF				x	x	x							
T20	Broadland	Spixworth Rd Core Bus Route																		
T20.1	Broadland	Spixworth Road Core Bus Route Enhancements - Feasibility	Needs scheme development		inc above in 19.1	inc above in 19.1	inc above in 19.1													
T21	Broadland	Spowston Rd Wroxham Rd Core Bus Route																		
T21.1	Broadland	Spowston Rd / Wroxham Rd Core Bus Route Enhancements - Feasibility										40								
T23	Broadland	Plumstead Rd Core Bus Route																		
T23.1	Broadland	Plumstead Rd Core Bus Route Enhancements - Feasibility	Needs scheme development		40															

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Transport Projects

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	Norwich South Norfolk	Bracondale and A146 Core Bus Route	Needs scheme development				S106													
T24	South Norfolk	Wymondham areas improvements					S106													
T24.1	South Norfolk	New subway/underpass at Wymondham Railway Bridge	Permitted				S106													
T24.2 (CF3-5 and GI P 5.3)	South Norfolk	Hethel sustainable access package	Needs scheme development				S106													
Tx (GI P1.4)		Broadland Way																		
		Scheme Development			15	15	NCC Revenue		15											
	Broadland	Green Lane East to Plumstead Road	delivered as part of NDR non-motorised user infrastructure				NDR				x									
	Broadland	Green Lane East to Stonehouse Road	expected to be delivered through development				delivered by development							x	x	x				
	Broadland	Stonehouse Rd to Wroxham	Requires Project Brief / Feasibility				CIL										x			
	Broadland	Green Lane North to Plumstead Road	Requires Project Brief / Feasibility				PoD/CIL							x						
T31	Norwich South Norfolk	Pink Pedalway																		
T14.2 (?)	Norwich South Norfolk	Route Extension (B1172)			250	250	LGF/CIL				250									
	Norwich	The Avenues			850	850	CCAG/S106/LTP		202	648										
	Norwich	Park Lane - Vauxhall Street			180	180	CCAG/S106/LTP		90	90										
	Norwich	Tombland - Palace Street			802	802	CCAG/S106/LTP		182	620										
	Norwich	Salhouse Road			365	365	CCAG/S106/LTP		225	140										
	Norwich	20 mph areas			435	435	CCAG/S106/LTP		433	2										
T31.4	South Norfolk	Pedestrian Cycle links along Colney Lane (Hethersett)	Secured		250	250	S106			250										
T31.1	Broadland	Salhouse Road Phase 1	Brief Issued, design work underway			365	Cycle City Ambition			x										
T31.2	Broadland	Salhouse Rd Phase 2 to NDR	Initial Feasibility undertaken Oct 2010. Needs further scheme development alongside T11 as part of joint feasibility 2014/15				Rackheath PoD/CIL							x						
T31.3	Broadland	Munnings Road to Greenborough Road Cycling Improvements	Consultation on proposed design			99	Cycle City Ambition		x											
Tx	South Norfolk	Yellow Pedalway																		
Tx	South Norfolk	Liberator Road	CCAG2		100	100	CCAG2			8	62	30								
		Spitfire Road - Hurricane Way	CCAG2		15	15	CCAG2			2	13									
		Hurricane Way - Heyford Road	CCAG2		50	50	CCAG2				50									
		Taylor's Lane (connector)	CCAG2		14	14	CCAG2			14										
		Fifers Lane / Ives Road / Heyford Road roundabout	CCAG2		300	300	CCAG2			50	250									
		Ives Road - Weston Road industrial estate	CCAG2		50	50	CCAG2			50										
		Bussey Road - Ives Road	CCAG2		30	30	CCAG2			30										
		Mile Cross Lane (Fiddlewood - Catton Grove Road)	CCAG2		500	500	CCAG2			20	65	415								
		Woodcock Rd / Catton Grove Rd roundabout	CCAG2		300	300	CCAG2			30	270									
		Mile Cross - Angel Road via Pointers Field	CCAG2		59	59	CCAG2			59										
		Angel Road	CCAG2		20	20	CCAG2				20									
		Shipstone Rd / Angel Rd / Waterloo Rd junc	CCAG2		300	300	CCAG2			30	270									
		Edward Street north	CCAG2		200	200	CCAG2			10	40	150								
		St Crispins (St Georges - Botolph Street) Crossing	CCAG2		900	900	CCAG2			10	140	750								
		All Saints Green / Brazengate / Queens Road	CCAG2		550	550	CCAG2			30	520									
		Lakenham Way	CCAG2		410	410	CCAG2			50	350	10								
		Sandy Lane (Bessemer - Lakenham Way junctions)	CCAG2		200	200	CCAG2			50	150									

*Indicative timetable for delivery

Transport Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
		Hall Road (Bessemer - Old Hall Road)	CCAG2		350	350	CCAG2			50	300									
		Ipswich Road - Old Hall Road	CCAG2		25	25	CCAG2			3	22									
Tx	Broadland Norwich	Green Pedalway																		
	Broadland Norwich	St Williams Way to Laundry Lane	Brief issued, design work underway		113	113	Cycle City Ambition		113											
Tx		Blue Pedalway																		
		School Lane/ Chartwell Road/ Denton Road Toucan Crossing and associated works (Blue Pedalway)			120	120	LGF/CIL			120										
		Newmarket Road / ORR & Leopold Road junctions	LGF2		2,000	2,000	LGF2					100	650	1,250						
		UEA Transport Interchange	LGF2		150	150	LGF2				150									
		Eaton - Newmarket Rd south slip road	LGF2		300	300	LGF2				300									
		Toucan Crossing on Newmarket Road between Popular Ave and Unthank Road	LGF2		200	200	LGF2				200									
		Salhouse Road Feasibility	LGF2				LGF2													
		Salhouse Road scheme implementation	LGF2		400	400	LGF2			400										
		Repton Avenue Feasibility	LGF2		20	20	LGF2			20										
		Broadland Way Feasibility	LGF2		15	15	LGF2			15										
		BRT Yarmouth Road Feasibility	LGF2		20	20	LGF2			20										
		Roundhouse Way interchange	LGF2		500	500	LGF2			50	450									
		Eaton Interchange	LGF2		100	100	LGF2			25	75									
		Longwater/Easton link feasibility	LGF2		20	20	LGF2			20										
		Sweetbriar Road feasibility and scheme implementation	LGF2		1,600	1,600	LGF2			50	50	750	750							
		Fakenham Road Feasibility scheme identification	LGF2		30	30	LGF2				30									
		Golden Ball Street / Westlegate / All Saints Green	LGF2		2,552	2,552	LGF2			1,500	1,052									
		Prince of Wales Road and Rose Lane	LGF2		2,500	2,500	LGF2					1,000	1,500							
		A140 BRT feasibility	LGF2		60	60	LGF2			60										
		Eaton centre??	LGF2		700	700	LGF2			40	80	580								
T37?		Purple Pedalway																		
	Broadland	Wroxham Road / Cozens Hardy Road – Install Right Turn Filter Lanes	Needs scheme development				CIL					x								
NP1.1	Broadland	Acle Neighbourhood Plan																		
NP1.1.1	Broadland	Improved foot and cycle links to countryside and surrounding villages	Requires Project Brief / Feasibility				CIL and Other													
NP1.1.2	Broadland	Improved access to Wherry Line - Pedestrian and Cycle access to Station and Facilities.	Requires Project Brief / Feasibility				CIL and Other													
NP1.1.3	Broadland	Traffic Calming and Pedestrian Crossing of A1064	Requires Project Brief / Feasibility				CIL and Other													
NP1.4	Broadland	Sprowston Neighbourhood Plan																		
NP1.4.1	Broadland	New Pedestrian and Cycle Link Plantation Drive to Harrison's Plantation (Via Cottage Plantation)	Requires Project Brief / Feasibility				CIL and Other													
NP2.1		Cringleford Neighbourhood Plan																		
NP2.1.4 (GI NFS 3.1 and 7.3)	South Norfolk	Demand for Cycling and walking facilities	Probably covered through Cycle City project?																	
		On site and direct mitigation development transport projects																		
(GI P1.3)	Norwich	Threescore supporting infrastructure			1,900	1,900	Developer			1,900										
(GI NFS 1.6)	Norwich	Deal Ground supporting infrastructure			3,480	3,480	Developer			2,520	960									
	South Norfolk	South Wymondham supporting infrastructure			3,500	3,500	Developer			1,500	2,000									
		Aeropark infrastructure					Developer													
	Broadland	East West Link Road					Developer													
(EDU2)	Broadland	Improvements to A1042/B1150 Junction & B1150/George Hill Junction	Delivered by NS & OC development				S278					x	x							
(EDU21)	Broadland	Junction Improvements Cucumber Lane Brundall	Delivered by development BDC NPA Small site				S106 / S278		x											

*Indicative timetable for delivery

Transport Projects

Ref	District	Project/Scheme Description	Status	Total Estimated Project Cost	Total Estimated Scheme Cost	Contributory funding (£,000)	SOURCE	Funding need	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26
	Broadland	Junction Improvement, Road Narrowing and speed restriction Yarmouth Road dev Brundall	Delivered by development BDC NPA Small site				S106 / S278		x											
	Broadland	Bus Route Phase 1 Link Road 1 to Blue Boar Lane	Delivered by WHF Scheme				S106					x								
	Broadland	Junction Improvements Gordon Avenue / Harvey Lane + 20mph Speed Limit on Henby Way	Delivered by PB&GL Scheme				S106 / S278				x									
(EDU14)	Broadland	Junction Improvements in the Form of a Mini-Roundabout at Yarmouth Road / Griffin Lane	Delivered by PB&GL Scheme				S106 / S278				x									
(EDU23)	Broadland	Road Widening to Increase south-bound Junction Capacity of NDR Junction with Salhouse Road	Expected to be delivered by development North of Rackheath Village				S106 / S278								x					
	Broadland	Road Widening to Increase south-bound Junction Capacity of NDR Junction with Wroxham Road	Expected to be delivered by development North of Rackheath Village				S106 / S278										x			
	Broadland	Blue Boar Lane Neighbourhood Cycle Link Improvement	Required to support WHF development				S106/S278							x						
	Norwich	Fifers Lane - Stirling Road bus/cycle link	Design required as part of site development	50	50	50	S106													
	Norwich	Martineau Lane bus stop signalled crossing	LTP unlikely to fund in short-term	120			LTP +	120												
	Norwich	Mousehold Lane (Wroxham Road Roundabout) Signalled Crossing	LTP unlikely to wholly fund in short-term	150			LTP +	150												
	Norwich	Newmarket Road (by Unthank Road) signalled crossing	LTP unlikely to wholly fund in short-term	150			LTP +	150												
(GI N.3)	Norwich	Unthank Road/ Christchurch Road signals signalled junction upgrade	LTP unlikely to wholly fund in short-term	350			LTP +	350												
	Norwich	Aylsham Road (south of Buxton Road) pedestrian refuge	LTP	30	30	30	LTP		30											
	Norwich	Grove Road outside shops zebra crossing	Future LTP bid	35	35	35	Future LTP bid													
	Norwich	Mousehold Lane (by War Memorial) cottages refuge	Future LTP bid	25	25	25	Future LTP bid													
	Norwich	Unthank Road (by Leopold Road) zebra crossing	Future LTP bid	35	35	35	Future LTP bid													
	Norwich	Drayton Road (north of St Martins Road) zebra crossing	Future LTP bid	35	35	35	Future LTP bid													
	Norwich	Mile Cross Road/ Waterworks Road junction upgrade	???	350				350												
	Norwich	Grapes Hill cycle / foot bridge – replacement to increase capacity	Does not currently have any NATS status	1,500								x								
	Norwich	Traffic issues at Waterworks and Hellesdon Roads, Larkman Lane junction with Dereham Road	Considerable further work required to scope project	tbd		tbd	CIL strategic	tbd												
	Norwich	Britannia Rd traffic issues		20		20	CIL n'hood	0			20									
	Norwich	Bignold Rd / Drayton Rd junction safety		3		3	CIL n'hood	0			3									
(GI NFN.5)	South Norfolk	Hethersett Link Road	Delivered by development				S106													

*Indicative timetable for delivery

For more information or if you
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Greater Norwich Infrastructure Plan
May 2015

