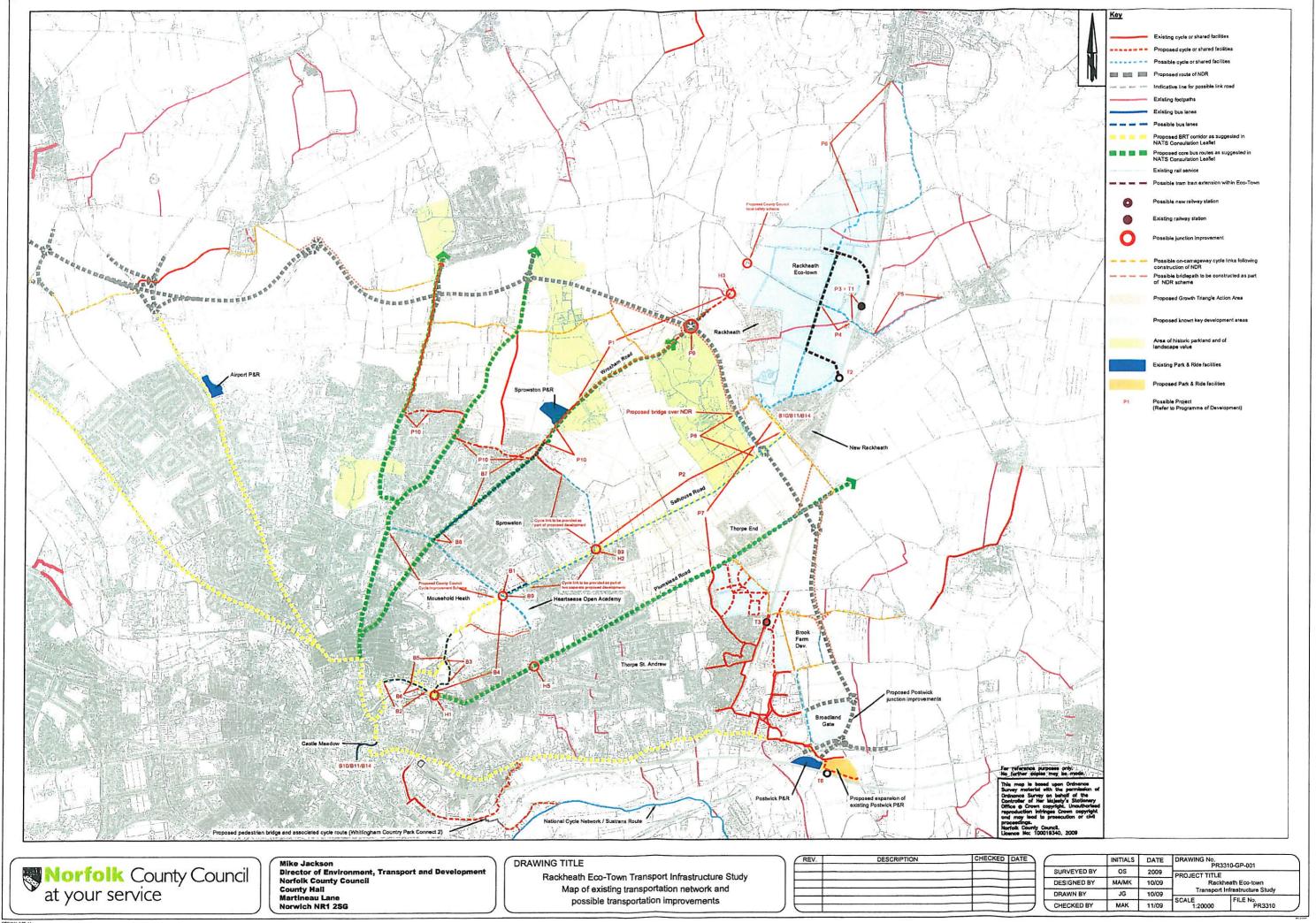
Rackheath Eco-Town
Transport Infrastructure
Programme of Development

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Ref No	Location	Description	Works Cost	Land Cost	Utilities Cost	Fees	Total Scheme Cost	Funding (Capital/ Revenue)	Timescale (minimum)	Dependencies	Benefits	Disbenefits
Bus												Vehicles in near side bus lane may experience difficulty
B1	Salhouse Road (Woodside Road to ORR)	Inbound bus lane	£330,000	To be determined	To be determined	Included in works	£330,000	Capital	Post 2014	Dependant on NDR	Improve journey times and decrease journey time variability	maneuvering into the middle lane to go straight ahead. 4 lanes of traffic would be required to maintain the right lane into business park. This would require the loss of all verge and the central refuge at this location. Loss of capacity in left turn lane at junction to allow bus lane to extend closer to junction. Land acquisition may be necessary.
B2	Barrack Street	Inbound bus lane on approach to Whitefriars Roundabout	£330,000	Potential earthworks outside highway boundary	To be determined	Included in works	£330,000	Capital	Post 2014	Dependant on NDR	Improve journey times and decrease journey time variability	Provision of bus lane would require the removal of the new cycle/pedestrian crossing facility at junction with Silver Road, which forms part of a cycle link that will include a new bridged river crossing. Significant amount of utilities in both northern and south footways, including BT, Cable Television and Anglian Water. Scheme would require removal of two central refuges and pedestrian crossing facilities at junction with Silver Road
B3	Gurney Road (adjacent to Prison)	Bus gate on Gurney Road to create bus only route	£30,000			Included in works	£30,000	Capital	Post 2014	Dependant on NDR	Provide congestion-free route to the IRR and improve the perception of bus travel and create quicker and more reliable journeys for buses	that were installed in 2007. Busgate would impact on access to buildings to the East including the Young Offenders Institute, Mons Avenue and Beech Drive. Access to these areas would need to be diverted via Plumstead Road and the narrow residential streel Britannia Road. The reduction in traffic volume could result in anti-social behaviour through Mousehold heath. Potential for rat-running on unsuitable roads.
B4	Gurney Road to Barrack Street	Bus only link from Gurney Road to Heathgate, north of Mousehold Street (Alternative to B3)	Still to be determined				Still to be determined	Capital	Post 2014	Dependant on NDR		
B5	Gurney Road to Barrack Street	Bus only link from Gurney Road to Mousehold Street/St James Close (Alternative to B3)	Still to be determined				Still to be determined	Capital	Post 2014	Dependant on NDR		
B6	Gurney Road to Barrack Street	Bus only link from Cannell Green to Barrack Street with signal controlled right turn into Barrack Street at existing toucan crossing (Alternative to B3)	Still to be determined				Still to be determined	Capital	Post 2014	Dependant on NDR		
В7	A1151 Wroxham Road, near Park and Ride	Bus lane extention towards Park and Ride from existing inbound facility south of junction with Russell Avenue.	£120,000			Included in works	£120,000	Capital	Post 2014	Dependant on NDR	Improve journey times and decrease journey time variability, particularly for Sprowston P&R.	
B8	A1151 Wroxham Road, ORR junction	Reduce delays for buses by either extending existing bus lane closer to ORR or providing bus gate on the approach to the junction. With both options extend operation hours to 24hrs to allow bus lane to be fully effective	Still to be determined				Still to be determined	Capital	Post 2014	Dependant on NDR	Improve journey times and decrease journey time variability, particularly for Sprowston P&R.	Could decrease capacity of roundabout and result in loss of existing on-street parking spaces.
В9	Salhouse Road (Blue Boar Lane/Woodside Road junction and ORR junction)	Traffic Signal Priority (Selective Vehicle Detection).	£10,000				£10,000	£3,000 Capital £7,000 Revenue	2010/11	Bus service between Rackheath and central Norwich	Short term scheme to allow speedier access to the city centre than that which would be experienced via Wroxham Road. Potential to allow Park and Ride to support new bus services and increase overall bus operational efficiency.	
	Bus Infrastructure for Salhouse Road corridor	Provision of 3 buses estimated at £250,000 each for alternative-fuelled vehicle. Provision of upgraded infrastructure to support the introduction of the high quality service along Salhouse Road, including the intallation of high quality shelters including RTI at key locations making bus stops and shelters nicer places to wait.	£1,800,000				£1,800,000	Capital		First occupation at Ecotown and Project B14		
B12/13	Norwich Airport Industrial Estate and	Revenue support for the establishment of either a conventional orbital bus service between Rackheath, the Airport Industrial Estate and the Broadland Business park or a Demand Responsive Transport service	£3,060,000				£3,060,000	£80,000 Capital £2,980,000 Revenue	2010/11	First occupation at Ecotown	Provides 'pump-priming' for new bus services.	
	Nowich	Revenue support for the establishment of a high quality and environmentally friendly bus service between Rackheath and central Norwich	£2,120,000				£2,120,000	Revenue	2010/11	First occupation at Eco town and Project B10/11	Provides 'pump-priming' for new bus services.	
Walking/Cycling												
P1		Shared use facility from existing facility by Sprowston Manor	\$800,000				000,0083	Capital	2010/11	Land acquisition required.		Large impact on established trees and hedgerows along the carriageway edge which would require removal.
	junction with Rive Roar Lane	Shared use facility and considered modifing existing roundabout at Green Lane West to improve conditions for cyclists	£1,950,000	Included in works	Included in works	Included in works	£1,950,000	Capital	2010/11	Land acquisition required.		The scheme would require land acquisition and have a large impact established trees and hedgerows along the carriageway edge which would require removal.
P3		Access improvements to avoid low bridge for buses and improve pedestrian/cyle links	£200,000				£200,000	Capital	2010/11	Proposed relocation of station as part of Eco- Town		Any plan to relocate Rackheath railway station as part of eco-town development would render these works abortive.
P4		Develop pedestrian/cyle link between railway station and eco-town	Still to be determined				Still to be determined	Capital	2010/11	Proposed relocation of station as part of Eco- Town		Any plan to relocate Rackheath railway station as part of eco-town development would render these works abortive.
		Upgrade approx, 1225 metres of downgraded bridleway to shared use facility	£151,500			Included in works	£151,500	Capital	2010/11		Provides link between Salhouse and western side of eco-town,	The scheme would require land acquisition.
	Eco-town to Wroxham via Stonehouse Road I and Salhouse Road	Develop pedestrian/cyle link between eco- community and Wroxham	2800,000	Included in works		Included in works	\$800,000	Capital	2010/11	Dependant on progress of eco-town.	Provides link between wroxnam and eco-town.	The scheme would require land acquisition and removal of trees. The existance of established trees and hedgerows along the carriageway edge would require the route to deviate from the carriageway edge.

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P7	Plumstead Road cycle link between Broad Lane and Dusindale Drive	Develop pedestrian/cyle link between Green Lane East and existing facility on Dusindale Drive	Still to be determined				Still to be determined	Capital	2010/11		Provides link along Plumstead Road to develop route between eco-community and Broadland Business Park.	
P8	Cycle link between proposed bridge at Newman Road over the NDR and Salhouse Road	Develop link between the bridge across the NDR and Salhouse Road	Still to be determined				Still to be determined	Capital	Post 2014	Dependant on NDR	Provides an alternative to the proposed facility along Green Lane and Salhouse Road, allowing cyclists an access to the proposed Salhouse Road facility bypassing the proposed NDR Salhouse Road roundabout.	
P9	Proposed bridge over NDR at Wroxham Road	Non motorised user bridge over NDR to link facilities on Wroxham Road	£2,000,000				£2,000,000	Capital	Post 2014	Dependant on NDR	Would allow pedestrians and cyclists to safely bypass the proposed NDR Wroxham Road roundabout.	
P10	Old Catton to Sprowston - White Women Lane, Barkers Lane, Church Lane and Wroxham Road	Complete missing cycle links with shared use facilities	£450,000	Included in works		Included in works	£450,000	Capital	Post 2010		Joins up sections of existing shared facilities.	
Highway												
H1	Ketts Hill Roundabout	Widen Ketts Hill approach	Still to be determined				Still to be determined	Capital	2010/11		Improve left turn bus movement into Riverside Road	Potential impact on existing trees and parking
H2	Salhouse Road (Blue Boar Lane/Woodside Road junction)	Junction upgrade scheme	2600,000				£600,000	Capital	2010/11			
НЗ	A1151 Wroxham Road/Green Lane West, Rackheath	Dedicated right turn lane or roundabout	£2,000,000				£2,000,000	Capital	2010/11	Dependant on NDR and progress of eco- town. Land acqusition required.	The scheme aims to reduce accidents and improve access to Rackheath Industrial Estate to cater for the increase in traffic heading northbound and turning right into Green Lane West due the eco-town development and NDR.	Options developed as part of feasibility study identified the need for land acquistition, removal of established trees and hedgerows along the carriageway edge, and the presence of utility apparatus.
H4	Improvements required as a result of the level crossing closures on Green Lane East and Plumstead Road	Still to be determined	Still to be determined				Still to be determined	Capital	?	Dependant on progress of eco-town.		
H5	Heartsease Roundabout	Enlarged roundabout to provide capacity	£3.000,000	Included in	Included in	Included in works	£3,000,000	Capital	2010/2011		Increased capacity of junction. Improved pedestrian	The scheme would require land acquisition.
Н6	Norwich Northern Distributor Road including Postwick Hub improvement	improvement New road to distribute traffic around the north of Norwich and link with the A47 and A11 trunk roads. This, together with enforcement measures where necessary, will help to stop traffic using unsuitable suburban and rural roads and reduce congestion on other main roads.		works	works		£127.2m	Capital	2010-2015	DIT Programme Entry Planning Permission	crossing facilities.	
Tram/Train		Strot Harristas.										
T1	Existing Salhouse railway station	Improvements to railway station	Still to be determined				Still to be determined	Capital	2010/11	Dependant on progress of eco-town.		
T2	New Salhouse railway station to south of existing station	Replacement to railway statron	Still to be determined				Still to be determined	Capital	Longer term aspiration	Dependant on progress of eco-town.		
T3	New Broadland Business Park railway station		Still to be determined				Still to be determined	Capital	Longer term aspiration			
T4	Tram train	Feasibility Study	Still to be determined				Still to be determined	Revenue	Longer term aspiration			
T5	Tram train	Implementation	Still to be determined				Still to be determined	Capital	Longer term aspiration			
Т6	New Postwick railway station		Still to be			15-14-12-23	Still to be determined	Capital	Longer term			
T7	Additional railway stations on Bittern Line rail		Still to be				Still to be determined	Capital	aspiration Longer term			
Т8	Enhanced rail service on Bittern Line	Provision of an additional train unit on the Bittern Line between North Walsham and Norwich to provide an additional hourly service	Still to be determined				Still to be determined	Revenue	aspiration 2012-2014	No dependencies.		Not within next 2 years although this may be able to be brought forward due to cascading of older diesel stock from other parts of the country.
Planning	North and madent	Operational traffic modelling for Salhouse Road BRT				050.555	050.555	Davis	0000/40			
R1	North-east quadrant Rackheath existing village community Area	corridor				£50,000	£50,000	Revenue	2009/10 onwards			
R2	Wide Travel Plan	Smarter choice study and implementation				£115,000	£115,000	Revenue	2010/2011 onwards	Dependant on progress of eco-town.		
R3	Eco-town Programme of Development	Initial work to support preparation of Eco-town Programme of Development		Carlotte Control		£25,000	£25,000	Revenue	2009/10			