MARCH 2019 FINAL REPORT

CAMBRIDGE GREENWAYS

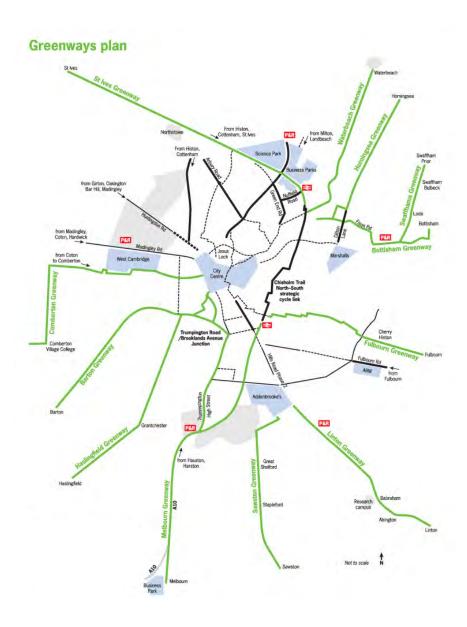
PRODUCED BY 5TH STUDIO FOR CAMBRIDGESHIRE COUNTY COUNCIL

HORNINGSEA, BOTTISHAM & SWAFFHAM



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The twelve indicative Greenways routes, to be finalised after public consultation.

INTRODUCTION

The Greater Cambridge Partnership is looking to establish a high quality Greenway network of cycling routes from Local villages into Cambridge. Some of these routes already exist in part or require improvements. Other sections are new, and may be subject to agreement with landowners.

The team, comprising 5th Studio, with support from JCLA (landscaping) and Allan Tyler (cost), has been appointed by Cambridgeshire County Council to prepare outline concept drawings for public consultation, and to inform future funding bids.

This study follows on from earlier consultation carried out by the council, and a series of reports completed in October 2016. In these it is recognised that:

'Cambridge has the highest level of cycling in the UK and without this it is hard to see how the city could function efficiently and maintain its high quality of life. A successful Greenways Network around Cambridge is likely to be a key part of the future success of the Greater Cambridge area.'

There are 12 Greenways planned in total:

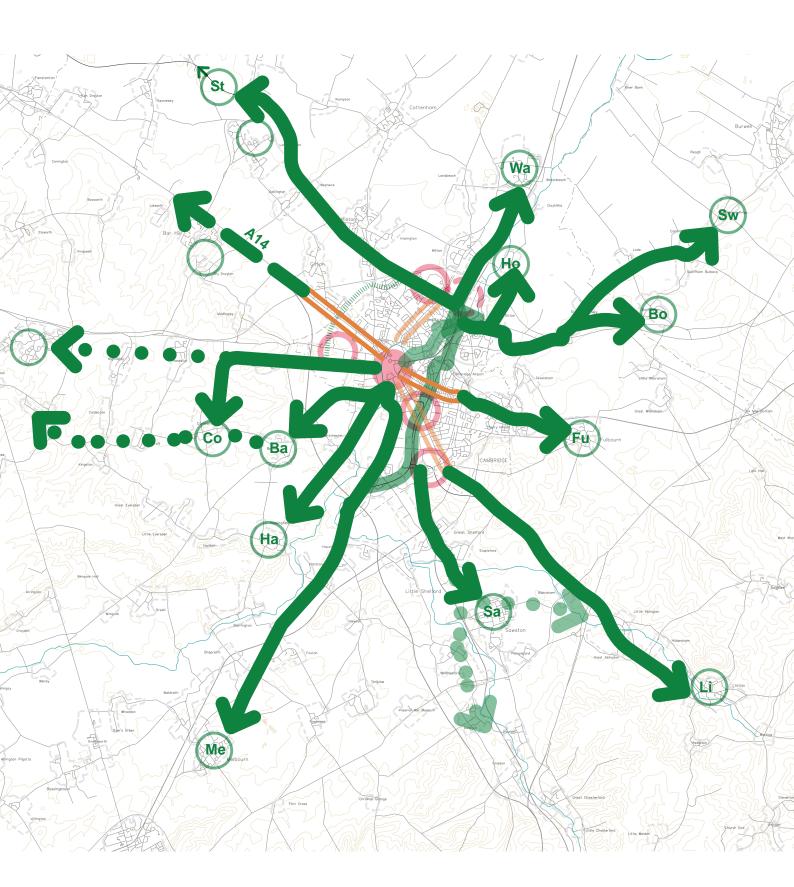
Waterbeach Greenway
Horningsea Greenway
Swaffham Greenway
Bottisham Greenway
Fulbourn Greenway
Linton Greenway
Sawston Greenway
Melbourn Greenway
Haslingfield Greenway
Barton Greenway
Comberton Greenway
St Ives Greenway

The approach illustrated in this document, builds on the findings of the previous study by Nigel Brigham and an earlier round of public engagement (both of which are summarised later in this document) and starts with a establishing a thorough understanding of the context and condition of the routes gained by visiting and cycling the area.

Using this understanding a targeted approach has been used to develop initial concept designs. We have concentrated on:

- Key locations crossings, moments of orientation/redirection,
- A variety of common linear conditions through exploring a range of representative cross sections,
- The definition of a series of high-level landscape approaches for different sections of the broad route corridors.

This report summarises our work on the Melbourn Greenway route, and concludes with initial cost estimates based.





Above: a 3m wide cycle lane,

Right: 2m wide cycle lane,

Right below: 4m wide cycle lane,







What is a Greenway?



- A high-quality, direct, continuous and legible route connecting local villages with the city.
- In this project the Greenways are particularly aimed at providing facilities likely to increase cycle commuting and thereby encourage modal shift out of the motor vehicle for journeys in their respective corridors, but should also provide good facilities for pedestrians, wheelchair and mobility scooter users and, where appropriate, horseriders and cater for both leisure and utility users.
- An all weather, hard surface (generally tarmac) of width of at least two metres, but wider where possible.
- Generally the routes should be free from vehicular traffic - either entirely away from roads, or segregated from them.
- Where the routes utilise existing roads these should preferably have less than 2,000 motor vehicle movements per day, and preferably be subject to 20mph speed limits.

- Where busy roads are crossed, there should be a suitably safe means of crossing the road.
- While there is necessarily a limit to the scope what can be delivered as part of this specific project, which is focused on delivering a series of radial Greenway routes connecting the city and outlying villages, the ultimate goal is to create a seamless network of high quality routes (including orbital routes around Cambridge, extensions of routes to villages and other destinations further afield (e.g. Wimpole Hall) and a denser network of high quality routes within the city) and potential of this wider network should be considered when developing the initial Greenway proposals.

4 TYPES OF ROUTE

Below is a description of the four standard route types that will form the basis of the Greenway routes.

There may be small sections of path where it is not possible to meet these standards and in these situations bespoke solutions that aim to meet the standards above are to be applied.

Other elements are to be proposed on a location specific basis and need not be common to the Greenways route. These include lighting, seating, local signage, trees, planted verges. The colour of cycle surface may be varied in sensitive locations.

Quiet road

Cycle route on carriageway with speed limit reduced to 20mph. White painted signage on carriageway. Generally no centre line. Direction and repeater signage likely to be best integrated with existing signs/posts.

Shared cycle path

Two-way cycle path, shared with pedestrians. Preferred width is 3m (2m may be acceptable on quiet rural stretches, and 4m may be required in busy areas). Shared path to have a machine laid hot-rolled black asphalt surface.

Where the path is located along an existing bridleway route, the bridleway is to run parallel on grass. Where the path runs alongside the carriageway a separating planted verge is recommended, to be as wide as possible.

Sign marker posts at regular intervals and at junctions.



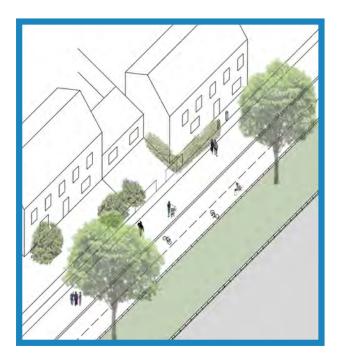


Segregated cycle path

Two-way segregated cycle path (i.e. for cycles only) parallel to the carriageway with, where possible, a planted verge between. The planted verge is to be made as wide as possible.

Preferred width for cycle path is 3.5m (with footpath alongside at 3.5m). An acceptable minimum width for cycle path is 2.5m (with 2.5m footpath). Machine laid hot-rolled asphalt surface.

Sign marker posts at regular intervals and at junctions.



High Street

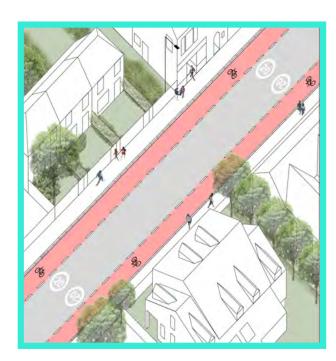
Depending on available carriageway width either:

coloured machine laid hot-rolled asphalt surface).

 i. Hybrid/stepped cycle lane (with a load-bearing, wide kerb edge dividing the carriageway form the cycle lanes) where the residual carriageway would be at least 6m wide.
 or

ii. Wide advisory cycle lanes where the residual carriageway would be less than 6m. The cycle lane surface should be differentiated from the vehicle area (could be red of buff

Minimum cycle lane width is 1.5m but extra width should be sought wherever practical, especially in busy sections. The centre line should be removed and a 20mph limit be in place. Direction signage likely to be best integrated with existing signs/posts.



SUMMARY OF PREVIOUS FINDINGS

Nigel Brigham Associates Report

In 2016, the Greater Cambridge Partnership commissioned Nigel Brigham Associates (NBA) to scope out a potential network of Greenway routes. That report is publicly available on the GCP website. It recommends the following sections of a Cambridge to Horningsea, Bottisham and Swaffham route be progressed as a priority:

Horningsea

- Upgrades to a route alongside Ditton
 Lane and Horningsea Road. These
 are already underway as part of
 the GCP's Cross City Cycle Routes
 scheme named 'Ditton Lane and
 Links to East Cambridge'
- Improvements to the Wadloes Footpath. This too is underway.
- Path widening at the confluence of routes at the south end of the Wadloes Path and raised tables on Howard Road.
- Further investigation of Horningsea to Lode link (this is outside the scope of this study)
- Investigation of a bridge over the Cam (this is outside the scope of this study, although preliminary options scoping has been conducted - and is summarised here)

Bottisham

· Upgrade existing route through

- Newmarket Road Park & Ride site and near the Ditton Lane/ Fison Road junction.
- Minor upgrades to existing good quality route
- Widen and resurface the existing narrow path in highway verge to link with the Wilbraham Road (outside the scope of this study)

Swaffham

- construct new off-road route between Stow-cum-Quy and Lode (now complete)
- construct new off-road route through Stow-cum-Quy
- upgrade substandard sections between Lode and Swaffam Prior
- construct new off-road route through Swaffham Bulbeck

Community Feedback

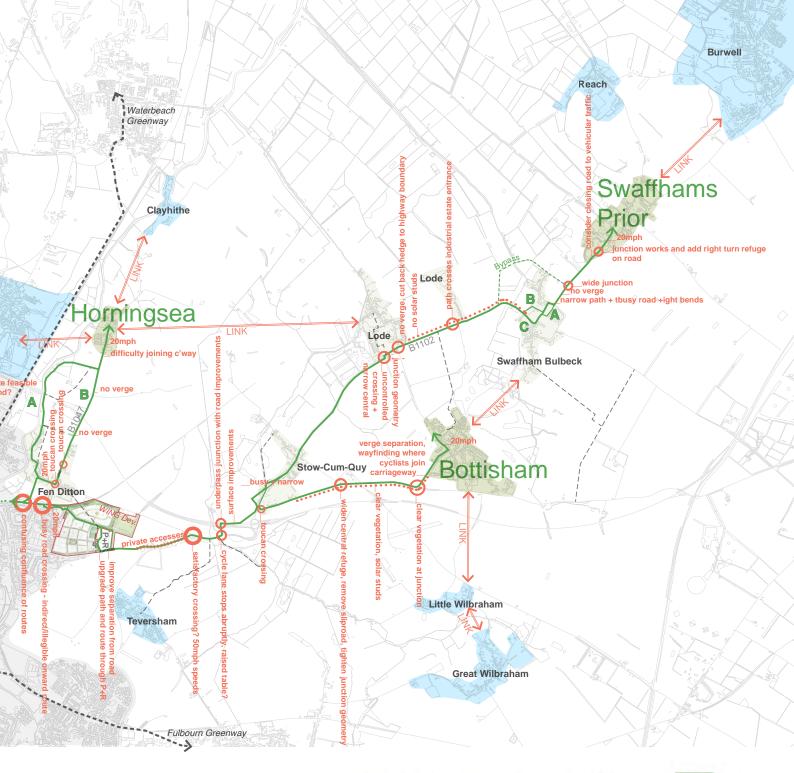
Following the completion of the NBA report the GCP undertook a series of public engagement exercises and collated and analysed the results to inform the brief for the next stage of development of the route proposals.

The sample sizes were relatively small, but nonetheless give some indication of the key issues. There was support for the old railway connection to Lode to be opened as an accessible route (this was



Above: Preliminary route options defined after first round of public consultation by the GCP (green) with a selection of the issues raised by the public or by the public noted in red

not carried forward into the Greenways brief – given the recenlty completed route along, but segregated from, the main road – but is highlighted as a separate potential project. Improvements to the A14 crossing near Quy Mill where also highlighted. For Horningsea, the riverside and High street options were equally favoured. Improvements to links to Waterbeach and Milton (e.g. surfacing existing tracks and ramps to Baits Bite Lock bridge) were also identified.



A number of other issues, or priorities for any design to address, were highlighted:

- improve and maintain path surfaces
- cycle priority over private entrances
- Widen Wadloes path

The routes identified by the client team at the end of this process - forming the initial brief for this study - are shown in green on the plan above, with identified issues, including desirable additional links to nearby villages, shown in red.

CAMBRIDGE GREENWAYS

Community engagement timetable





Above: Cambridge Greenways community engagement timetable

EXISTING CONDITIONS

Our design process began with the team travelling the routes and documenting the condition of the existing footways and cycleways (where these existed). The plan drawing on the following page records the nominal width of existing paths in key locations.



Existing shared surface path along Horningsea Road, B1407

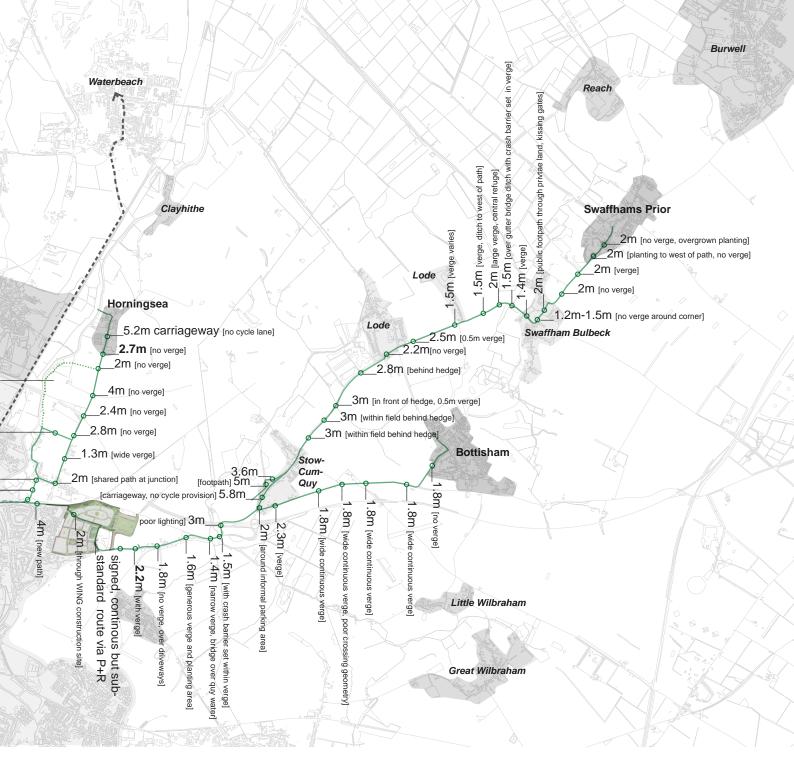


Existing shared surface path along Newmarket Road, A1303 at the junction with High Ditch Road





Existing shared surface path along the Jubilee Cycleway within the Wing Development Site

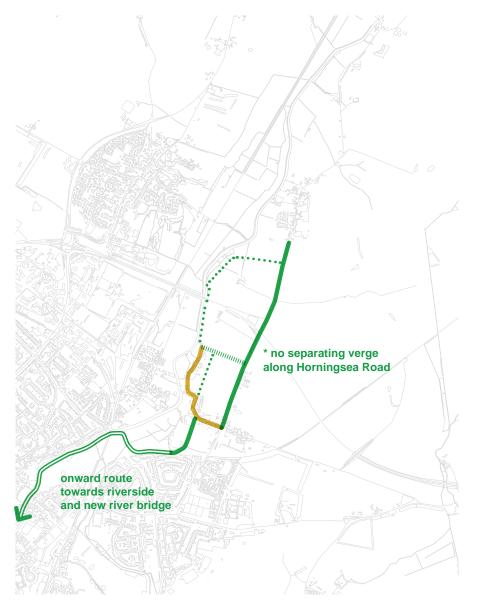








Existing quiet road along Green End, Fen Ditton



- Existing good quality shared off-road cycle path
- Existing quiet road route
- unmetalled byway
- · · · · unmetalled footpath

THE ROUTE - SCOPING & ANALYSIS

HORNINGSEA

The drawing above provides an initial appraisal of the generic route type (as per pp8-9) that would be applicable to the various links that might form a part of a final Greenway route based on the site visits undertaken and a review of the outcomes of the previous community engagement and Greenways report by NBA.

The drawing on the following page highlights areas where further option appraisal was required and key locations where more specific responses need to be developed in contrast to the standard conditions outlined above.

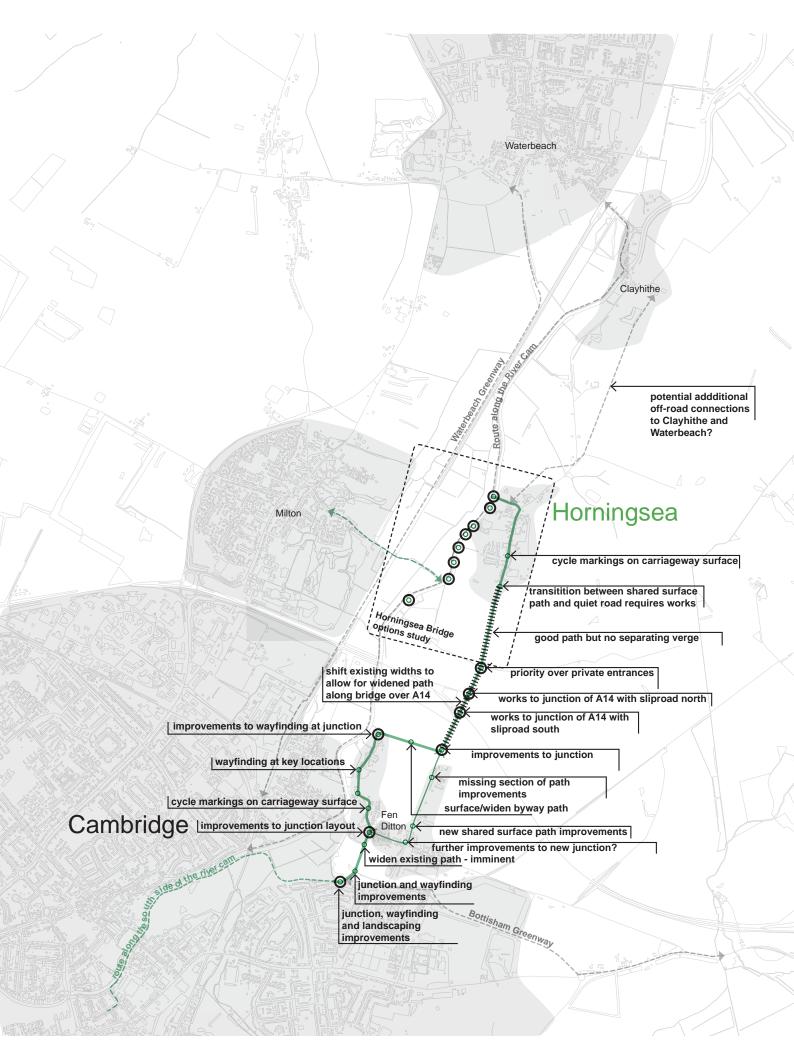
After an initial review with the client it was agreed that the focus of the study should be on a route via the existing path alongside Hornisingsea Road between Horningsea and the northern extent of Fen Ditton, and then via the byway and Green

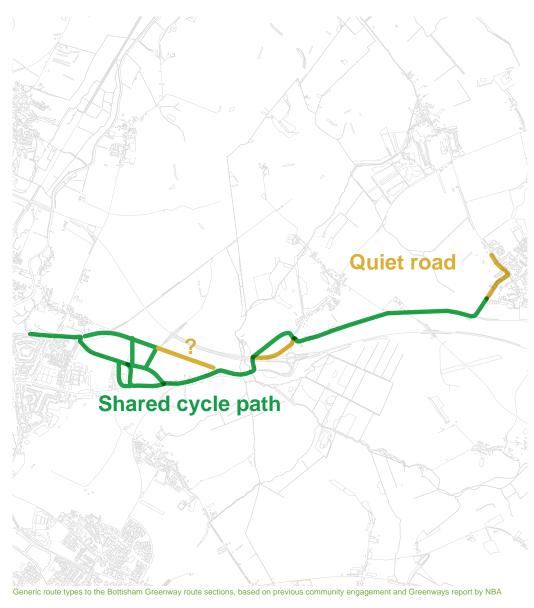
End to the end of the Wadloes path. This choice was made on the basis that:

a. this would form a quieter, 'greener' alternative that would complement the recently completed improvements that provide a shared-use path along Horningsea Road through the village b. a new cross country route alognside the the river would not justify the additional

the river would not justify the additional cost/land acquisition required, and would have a detrimental effect on the character of this low key riverside footpath

While not part of the initial brief for this route a further alternative has been investigate in outline, whereby a new bridge over the Cam to the west of Horningsea would link to the Waterbeach Greenway provising a connection to Cambridge via that route as well as facilitating orbital movements (e.g. Horningsea to Milton),





THE ROUTE - SCOPING & ANALYSIS

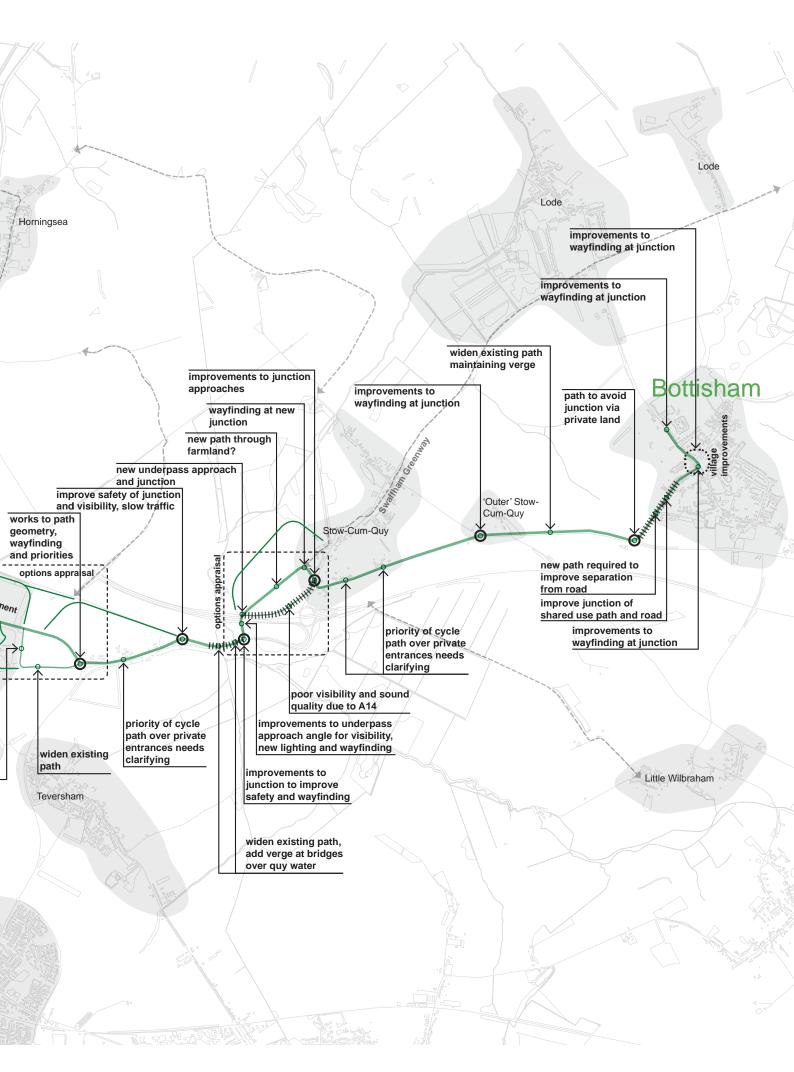
BOTTISHAM

The drawing above provides an initial appraisal of the generic route type (as per pp8-9) that would be applicable to the various links that might form a part of a final Greenway route based on the site visits undertaken and a review of the outcomes of the previous community engagement and Greenways report by NBA, and an initial scoping of potential options in key locations.

The drawing on the right highlights areas where further option appraisal is needed and key locations where more specific responses need to be developed.

The preferred route that emerged from the initial scoping and client review follows NCN 51 with a number of on-line improvements to upgrade the existing good quality path. In two locations - around the P+R site/Wing Development and between the A14 and Stow-Cum-Quy alterantive route options have been examined - resulting in the recommended route outlined later in this document.







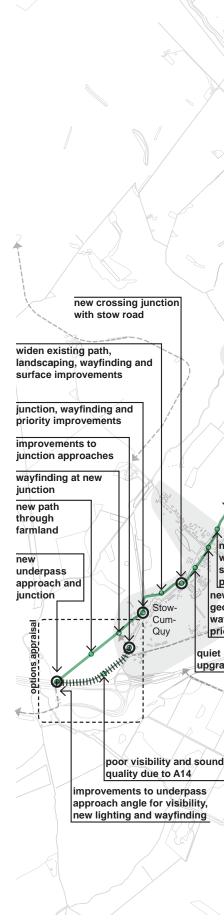
THE ROUTE - SCOPING & ANALYSIS

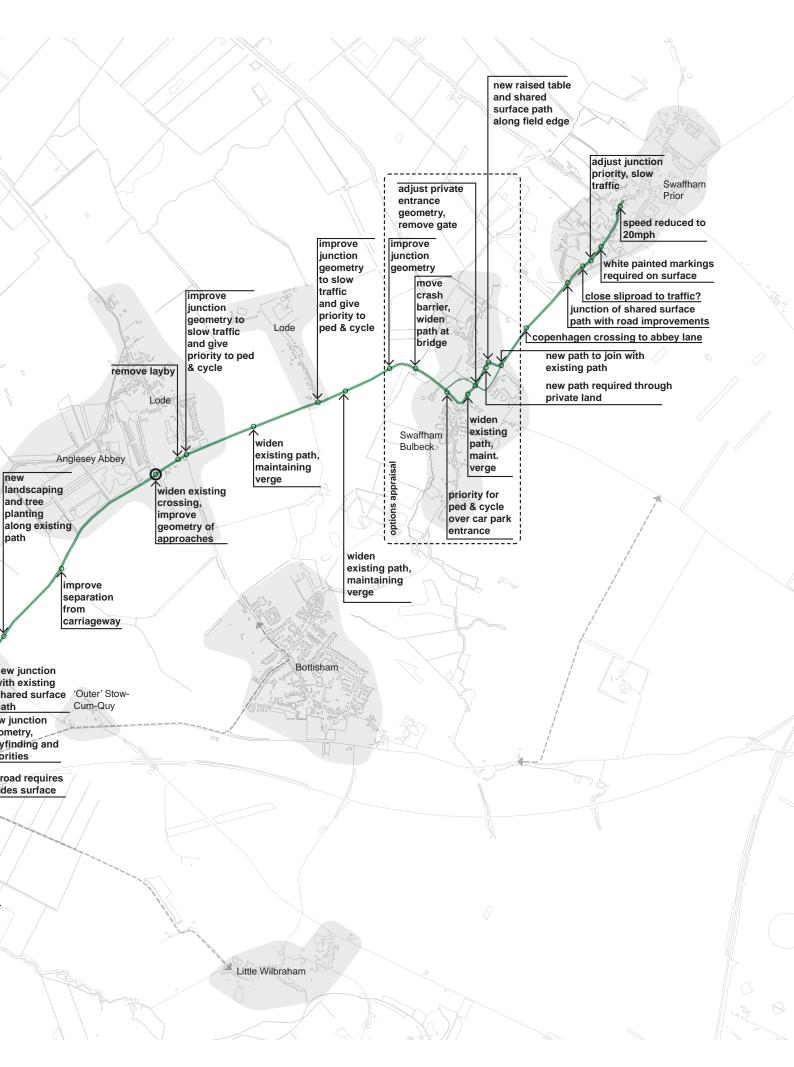
SWAFFHAM

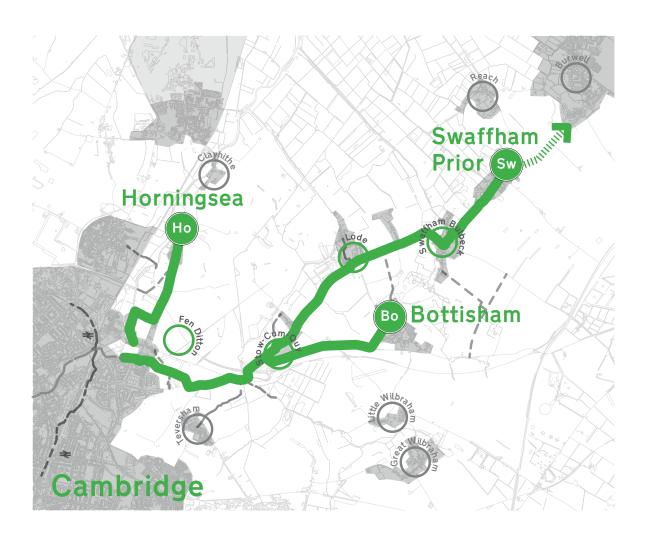
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The drawing on the right highlights areas where further option appraisal is needed and key locations where more specific responses need to be developed.

The preferred route that emerged from the initial scoping and client review connects to the Bottisham Greenway near Stow-Cum-Quy, with that route providing the final link into Cambridge. In general between villages the route follows upgraded existing paths within the Highway boundary (the Swaffams to Lode) or existing high-quality links (Lode to Stow-Cum-Quy). Within each of the villages along the route more substantial and bespoke changes are proposed - tailored to the specific layout and challenges of each diverse place.









The route map above shows the recommended core Greenway routes providing direct, fast routes between Horningsea, Bottisham, and the Swaffhams, and Cambridge.

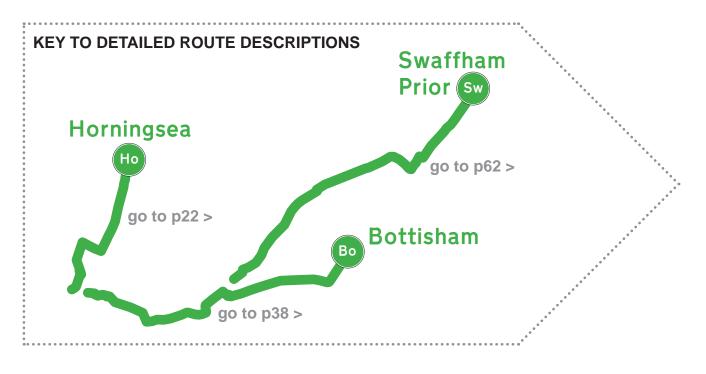
To avoid duplication the Swaffhams route is presented in the remainder of this document as running between Swaffham Prior and Stow-Cum-Quy, from where it follows the Bottisham route towards Cambridge.

The plan on the at the top of the following page shows the route that was selected in discussion with the client group for consultation, including areas where multiple 'front-runner' options were to be presented to the public following an initial short-listing completed through the design process.

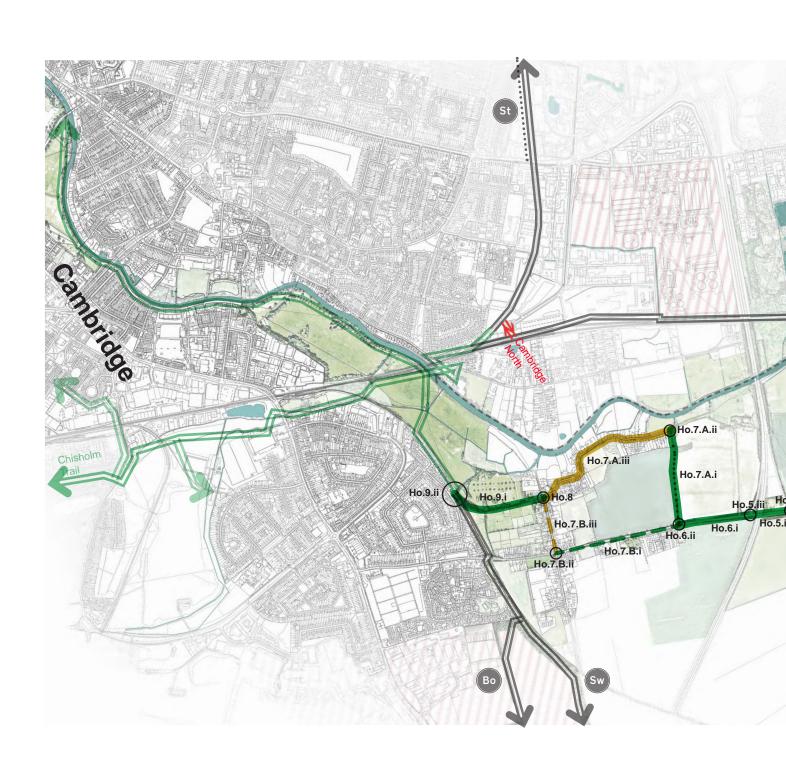
Each of the routes is examined in turn in the remainder of this document. At the start of each section - as identified in the key diagram on the following page - there is an overall plan that identifies the route type (by colour) and locationally specific proposals (by reference number) that are then presented (selectively) in detail thereafter.



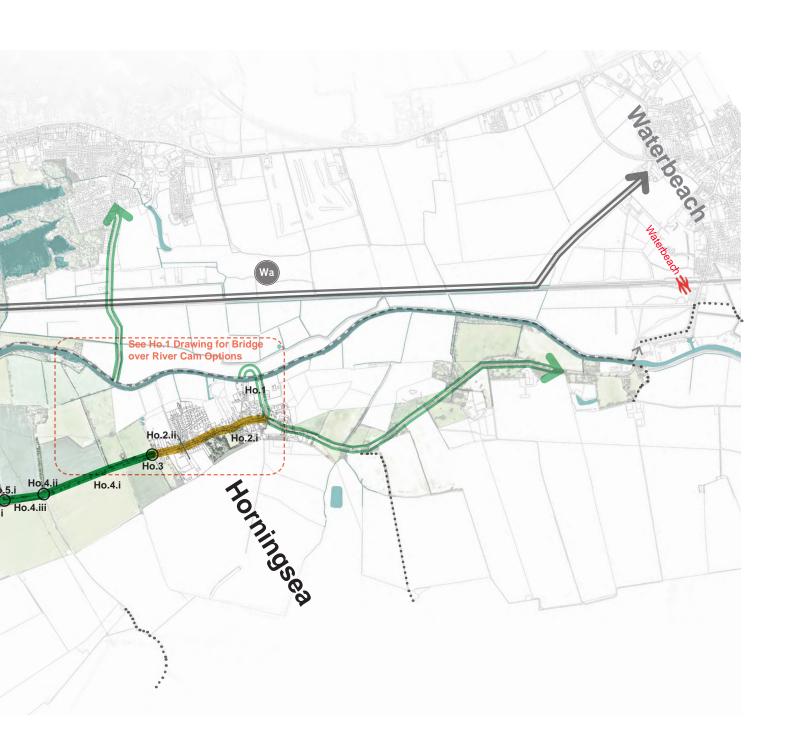




HORNINGSEA GREENWAY INITIAL PROPOSALS

















Existing photograph of Horningsea Village Junction with Shared Use Path

Ho.3 - Horningsea Village Junction with Shared Use Path

Maintenance required to quiet road surface with white painted cycle markings on carriageway surface to highlight road type. Speed limit reduced to 20mph through village. At junction with village entrance, a raised table provides a transition for cyclists to mount the shared use path from the quiet road treatment. For cycles traveling southbound towards Cambridge, a jug handle allows them to cross Horningsea Road using the raised table, safely. The village entrance is built out with a new tree, additional fencing to mirror the existing gateway feature, and give way markings painted on the carriageway surface allow priority to cyclists joining or leaving Horningsea Road, and for vehicles existing the village

 over vehicles entering the village. Solar studs required to signal the greenway route.

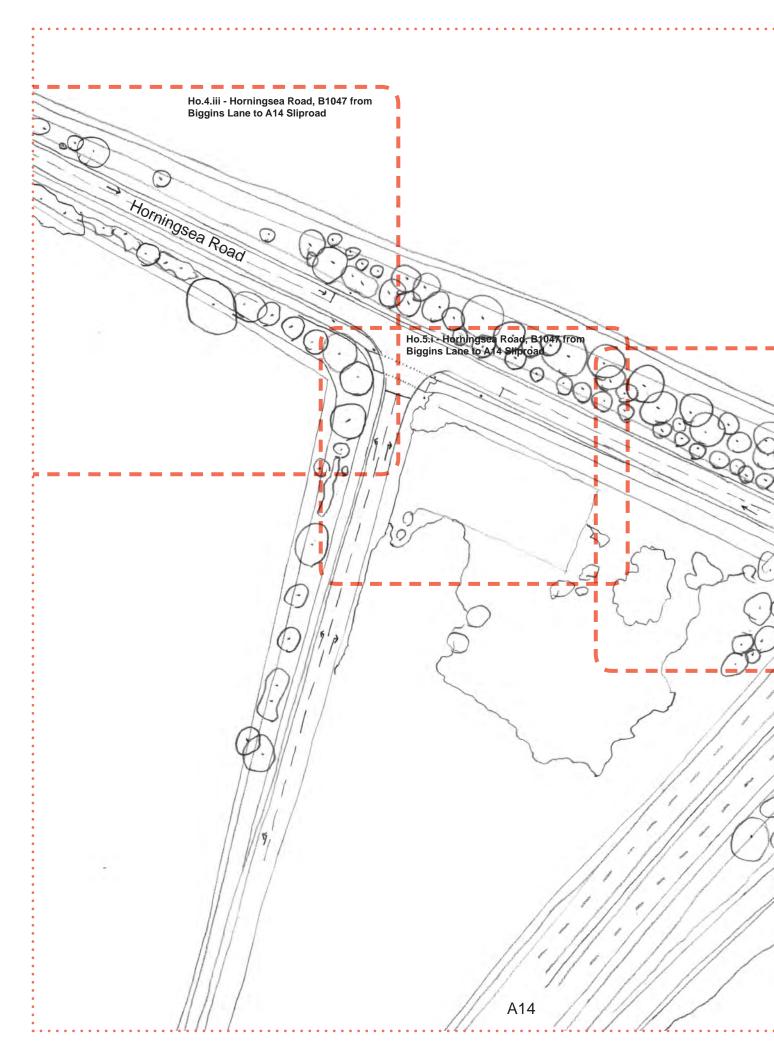
Ho.4.i - Horningsea Road, B1047 from Horningsea Village Gateway to Biggins Lane

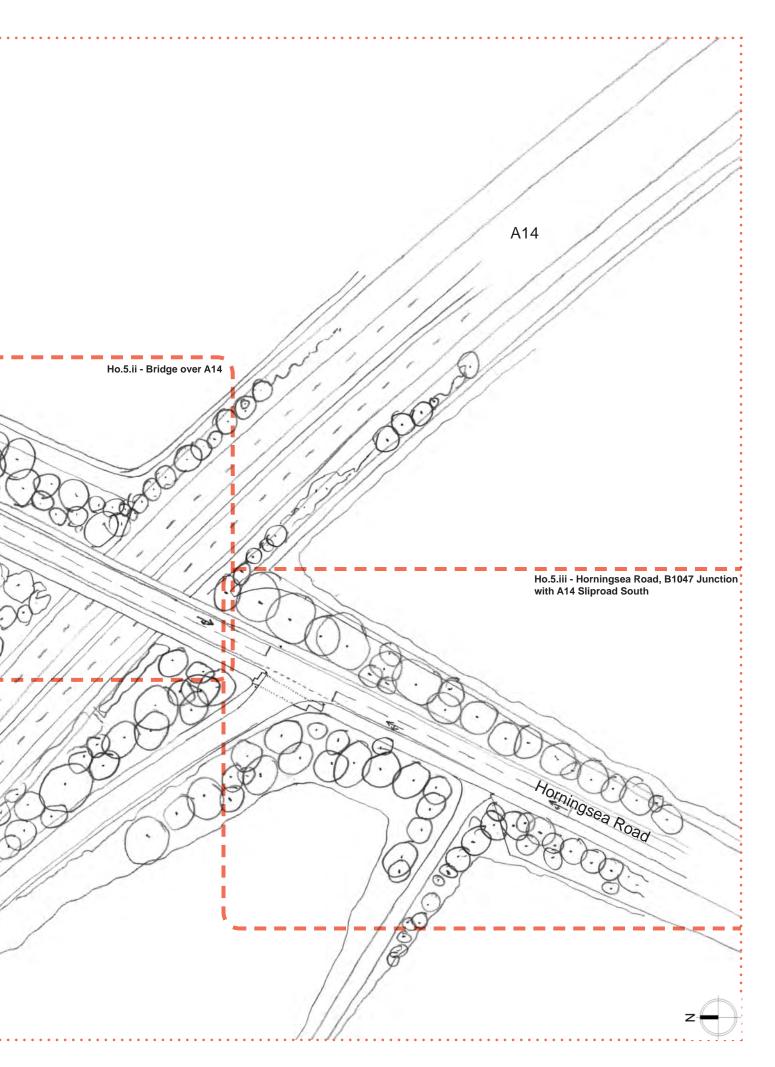
The existing shared use path is extended to align with works to the village entrance. Introduce a soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west Junction of the Byway and Horningsea Road side to accommodate this. Solar studs required to signal the greenway route.



Existing photograph of Horningsea Road, B1047 from Horningsea Village Gateway to Biggins Lane







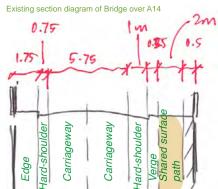


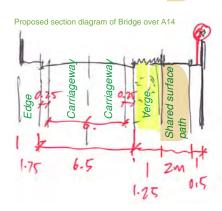


Existing photograph of Horningsea Village Junction with Shared Use Path

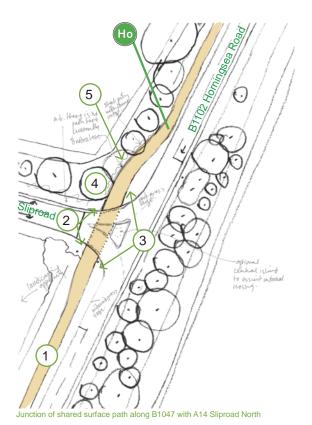
Ho.5.ii - Bridge over A14

Shared use path curves from the existing signalised crossing to provide a widened and safer crossing point for pedestrians and cyclists. Widen verge at junction of shared use path with A14 sliproad, using land to the west. Landscaping required to align with existing signalised crossing. Introduction of a planted verge between the shared-use path and the roadway, and installation of a screening device to provide a greater degree of visual and sound protection at the bridge edge. New planting and landscaping required along bridge. White painted carriageway markings shuffled to provide adequate space for shared surface path and verge along bridge. No works required to east side of bridge. Solar studs required to signal the greenway route.











Ho.5.i - Horningsea Road, B1047 from A14 Sliproad North to Bridge over A14

Continue soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road to separate cycles from carriageway. At the junction, the shared use path curves to the existing crossing point to provide a widened and safer crossing point for pedestrians and cyclists. Widen verge at junction of shared use path with A14 sliproad, using land to the west, landscaping required to the land to the west to align with existing shared use path. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.

Ho.5.iii - Horningsea Road, B1047 Junction with A14 Sliproad South

Tightened geometry along A14 Sliproad (south of A14 Bridge) uses kerb buildouts to reduce the carriageway width and increase shared surface path width. Shared surface path is shifted slightly to the west to allow for a better crossing position over the A14 sliproad. At the south side of the crossing, the path is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.

Shared surface path 3m wide

Junction of shared

B1047 with A14 Sliproad North

- Tightened geometry to sliproad
- Landscaped verge
- Adjustments to landscape
- Deck to extend foot/cycleway -5 with sheet piling
- Repositioned crash barrier







Ho.6.ii - Horningsea Road, B1047 Junction with Fen Ditton Byway

At the junction of Horningsea Road with the Fen Ditton byway, landscaping works are required to open up the geometry to clarify the turning point. Prominent 'milepost' markers to be installed to highlight turn into the Byway [route A] and widening of the shared-use path on the west side of Horningsea Road towards the school [route B]. Ensure proposals align with current and future works to Fen Ditton. Solar studs required to signal the greenway route.



Existing photograph of Horningsea Road, B1047 Junction with Fen Ditton Byway





Existing photograph of Fen Ditton Byway

Ho.7.A.i - Fen Ditton Byway

New shared-use path along the existing Byway, with careful pruning of existing trees and hedgerows to maintain clear width. Bespoke treatment, with surface width, use of over run areas and material to be designed to respect rural character of existing Byway. Leave 0.5m either side of 2m wide shared surfaced path for grassy verge to allow for vehicular and bridleway uses. Adjustments required to landscaping and planting to enhance the existing byway. Solar studs required to signal the greenway route.

Ho.8 - Church Street, Junction with High Street and Wadloes Path through Ditton Meadows

Close west arm of the junction to provide a larger green by the war memorial and a direct cycle link between Wadloes path and Church Street. Path alongside the war memorial joins via a raised table with white painted give way markings on carriageway surface to High Street allowing shared surface path to have priority over traffic and seamlessley continue through to Ditton Meadows. New cycle parking, an improved entrance to the churchyard, and new planting to enhance the war memorial are required. Two bollards are required to signal the greenway route.



Existing photograph of Church Street, Junction with High Street and Wadloes Path through Ditton Meadows







Existing photograph of Wadloes Path 'Bow-Tie

Ho.9.ii - Wadloes Path 'Bow-Tie'

Selective path widening, new signage and landscaping improvements around multiple converging routes. Careful pruning and crown lifting in key locations is required to ensure a clear route along the paths. Decluttering and bins to be relocated to a better location. New planting and bench on the western green with new sleeper steps, references the history of the site as a crossing on railway line to Mildenhall, on the east - but also forms a peaceful seating area. Two new trees to the eastern green enhance the landscape. Two short sections of new shared-use path on existing desire lines, linking up Ditton Lane to Howard Road, and the Horningsea Greenway with the Bottisham Greenway routes. Six bollards required to signal the greenway

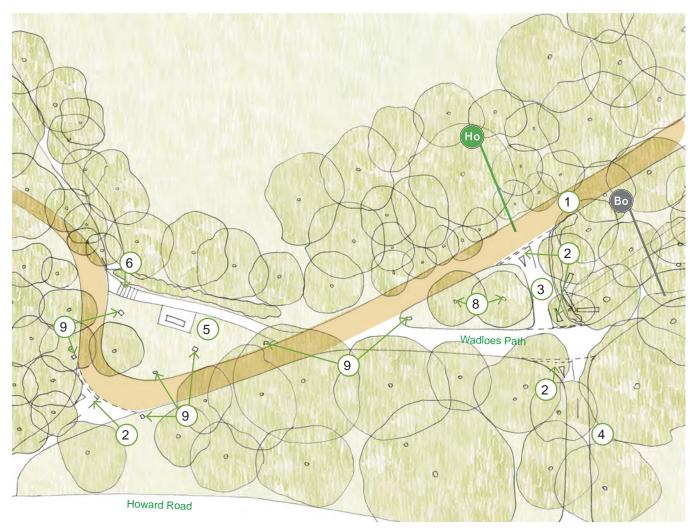
route. Solar studs required to signal the greenway route.

- 1 Shared surface path 3m wide
- Priority to cyclists along greenway using white painted give way markings on path surface
- New section of path joining Horningsea and Bottisham greenway
- 4 Adjustments to path geometry
- 5 New planting and seating
- 6 Sleeper steps
- 7 Adjustments to landscape
- 8 New tree
- 9 Bollard



Existing plan drawing of Wadloes Path 'Bow-Tie





BOTTISHAM GREENWAY



Shared cycle path

Quiet road







Bo.1.ii - Bottisham Village Green

Lode Road alongside Village Green and village shops to be made one way to vehicular traffic traveling south-east on a large-scale raised table. This upgraded path is a coloured shared surface giving priority to pedestrians and cyclists over vehicles. A new village sign and seating is positioned outside of the post

and cycling routes, alongside signage for 'no entry' and 'one way' signals. Paking area is indicated via hatched area in drawing for approximately 5-6 bays for deliverys and disabled parking. Remaining vehicles are to travel around the village green via Trunbridge Lane.

- Parking / delivery area
- Adjustments to landscape including new planting

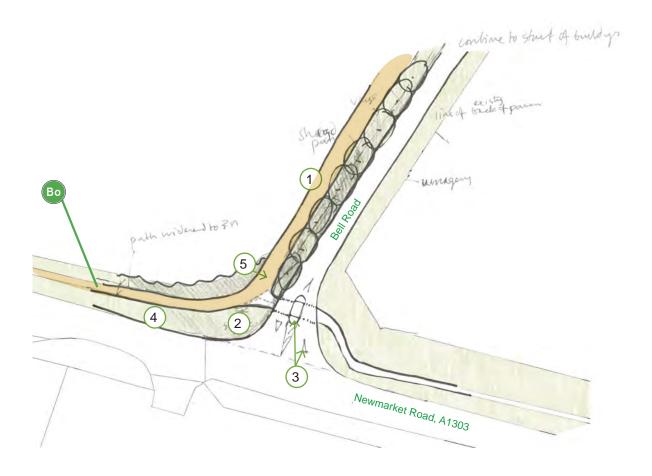
Bo.3.iii - Shared Surface Path Parallel to Bell Road

Shared surface path alongside Bell Road, 3m wide with minimum 0.5m grassy strip separating path with farmland. Existing pavement to be replaced with planted edge, with between 8-10 new trees. Short section in front of pumping/sub-station route utilises existing footway widened to full width available between fence and kerb. Solar studs required to signal the greenway route. Land acquisition may be required, subject to landholders agreement.



Existing photograph of Shared Surface Path Parallel to Bell Road









Existing photograph of Bell Road Junction with Newmarket Road, A1303

Bo.3.iv - Bell Road Junction with Newmarket Road, A1303

Shared surface path alongside Bell Road cuts through trees and landscaping to the west of Bell Road to join with existing shared surface path along Newmarket Road. Tightened junction geometry required to allow for safer crossing over Bell Road, with new central refuge. White painted give way signs required minimum 10m away from junction for vehicles to give way to pedestrians and cyclists travelling east-west. Planting widened to accommodate change in geometry. One bollard required to signal greenway route. Solar studs required to signal the greenway route. Land acquisition required as per Bo.3.iii, subject to landholders agreement.

- 1 New shared surface path 3m wide
- 7 Tightened junction geometry
- New central refuge and give way signs to prioritise ped and cycle over vehicles
- 4)Landscaped verge
- 5 Adjustments to landscaped edge to allow new path to join existing shared surface path alignment

Bo.5 - Albert Road junction with Newmarket Road, A1303

Changes to existing junction geometry required to allow for safer crossing over Albert Road. Albert Road carriageway curves more to the west to allow the carriageway to meet Newmarket Road at a 90' angle. Shared surface path has ample space to approach the Albert Road crossing point at 90' angle for improved visibility and a smoother transition. A new central refuge 4m wide allows for safe interim crossing. White painted give way markings on carriageway set back from junction for vehicles to give way to pedestrians and cyclists travelling east-west, and slow down vehicular traffic exiting or joining Newmarket Road. Planting widened alongside The Missing Sock pub provides an improved entrance, and accommodates this change in junction geometry. Two bollards required to signal greenway route. Solar studs required to signal the greenway route. Land acquisition required, subject to landholders agreement.

- 1 New shared surface path 3m wide
- Wholesale junction geometry alterations
- New central refuge 4m wide and give way signs to prioritise ped and cycle over vehicles
- 4 Landscaped verge
- Adjustments to landscaped edge to redefine field boundary
- 6 New tree
- 7 Bollard



Existing photograph of Albert Road junction with Newmarket Road, A1303









Existing photograph of Northern Approach to A14 Underpass, Junction with Private Road

Bo.9.i - Northern Approach to A14 Underpass, Junction with Road to Quy Hotel

New shared surface path, 3m wide, through farmland crosses road to Quy Hotel using coloured raised table. White painted give way markings on carriageway surface indicates priority to cycles and pedestrians crossing the road. Two greenway bollards required to signal the greenway route.



Bo.9.ii - A14 Underpass

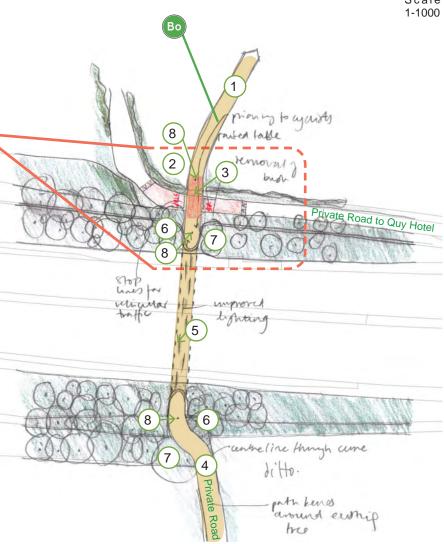
New lighting to existing underpass to improve safety and visibility. Two greenway bollards to either side of the underpass to prevent motorised vehicles from entering the underpass. Land acquisition required, subject to landholders agreement.



Existing aerial photograph of A14 Underpass

Scale

- 1 Shared surface path 3m wide
- Priority to cyclists over private road using coloured raised table and painted stop signs on carriageway surface
- 3 Coloured surface
- Adjustments to underpass approach
- 5 New lighting to underpass
- 6 Adjustments to landscaped embankments
- 7 Adjustments to planting
- 8 Bollard



Bo.9.iii - Southern Approach to A14 Underpass along Road to A14 Underpass

Adjusted geometry to underpass approach to improve visibility and form a smoother angle of approach to the underpass entrance. Works to existing landscape and trees according to the new alignment, new landscaping and tree planting required along the eastern edge to clarify angle of approach to the underpass, and prevent car parking at the end of the road. Land acquisition required, subject to landholders agreement.



Existing photograph of Southern Approach to A14 Underpass along Private Road









Existing photograph of Bell Road Junction with Newmarket Road, A1303

Bo.11 - Road to A14 Underpass Junction with Newmarket Road, A1303

Tightened corner geometry to the road to A14 underpass gives priority to cycles and pedestrians over vehicles. A steep dropped kerb reduces the vehicle speeds to a minimum, so as to improve the safety of cycles and pedestrians. Shared surface path is widened to 3m, allowing for a minimum 0.7m verge separating path from busy road. At the edge of the path where turning onto the road, the verge increases in size to clearly indicate a turning point to the shared surface path. Existing footpath remains. Two bollards required on either side of the junction approaches to signal the greenway route. Solar studs required to signal the greenway route.

Bo.12.ii - Newmarket Road East Bridge over Quy Water

Shared surface path crosses Quy Water over existing bridge. Bridge path widening from 2m to 3m to take place through the removal of the existing crash barriers (65m long). Crash barriers are to be replaced with new planted verge 1m wide, bounded by a high-profile safety kerb. Carriageway width reduced to 6.5m, and vehicles are encouraged to slow speed from 50mph to 30mph. Solar studs required to signal the greenway route.



Existing photograph of Newmarket Road East Bridge over Quy Water





Scale 1-1000

Existing photograph of Bell Road Junction with Newmarket Road, A1303



Bo.13 - High Ditch Road Junction with Newmarket Road, A1303

Changes to existing junction geometry required to allow for safer crossing over High Ditch Road. High Ditch Road carriageway curves more to the west to allow the carriageway to meet Newmarket Road at a 90' angle. Shared surface path has ample space to approach the High

Ditch Road crossing point at 90' angle for improved visibility and directness. A new central refuge 5m wide allows for safe interim crossing. White painted give way markings on carriageway set back from junction for vehicles to give way to pedestrians and cyclists travelling east-west, and slow down vehicular traffic exiting or joining Newmarket Road. Adjustments to the existing landscaping to allow for more direct shared surface path, and landscaping required to replace the existing shared surface path. New tree planting long the edge of the shared surface path and a large area of low planting required to the north of the east side of the path to highlight the change in geometry for vehicles traveling southbound towards Newmarket Road. Two bollards required to signal greenway route. Solar studs required to signal the greenway route.

- 1 New shared surface path 3m wide
- Wholesale junction geometry alterations
- New central refuge 4m wide and give way signs to prioritise ped and cycle over vehicles
- 4 Landscaped verge
- Adjustments to landscaped edge for visibility and redefine field boundary
- 6 New trees to define edge of path

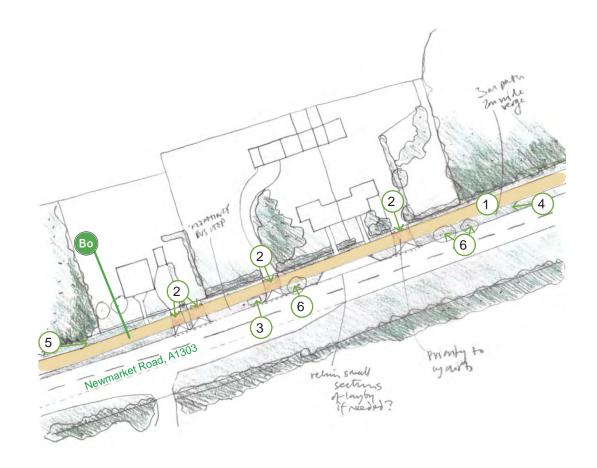
Bo.14 - Newmarket Road, A1303 from High Ditch Road to Roundabout

Widen existing 2m wide path to 3m, allowing for sufficient remaining verge of minimum 0.5m wide. Where the path crosses over private entrances, a coloured surface and white painted give way lines (where appropriate) are required to give priority to cyclists and pedestrians over vehicles. Changes to the geometry of existing private entrance and exit to the Darwin Farm Shop and Nurseries are required to slow vehicular speeds, and allow for safer cycle and pedestrian crossing. Laybys may be closed where appropriate to prevent doors opening onto the shared surface path. Where laybys are required, a sufficient hatched or planted width must be provided for safe exit and entrance to vehicles occupying the space. Existing bus stop is adjusted to form a floating bus island to allow for safe exit and entrance to buses along Newmarket Road. Solar studs required to signal the greenway route.

- Shared surface path 3m wide (1
- Priority to cyclists over side roads and private entrances using coloured surface and white painted dashes along path edge
- Floating bus island instead of layby, one layby kept for necessity
- Landscaped verge
- Adjustments to landscape
- New tree



Ditch Road to Roundabout

















Existing photograph of Newmarket Road Roundabout Option A - Through Field towards Wing Development

Bo.i.15.A.i - Newmarket Road Roundabout - Option A - Through Field towards Wing Development

Widen existing 2m wide path to 3m wide. New path through farmland 3m wide towards the eastern edge of the Wing Development Site. Allow for grassy verge 0.5m minimum either side of path to separate path from surrounding farmland. Two bollards to be provided along the north and south edges of the path to signal the greenway route. Two new trees line the start of the turning point at the Newmarket Road roundabout. White painted markings on path surface to indicate which routes give way to the other. Landscaped 'triangle' in the centre

of the paths is adjusted to allow easier turning for cycles joining the greenway. An additional bollard is required at the base of the 'triangular' landscaped section to indicate the Bottisham Greenway route. Solar studs required to signal the greenway route. Land acquisition required, subject to landholders agreement.







Existing photograph of Copenhagen Crossing to Fison



Bo.17.A.ii - Copenhagen Crossing to Fison Road

Shared surface path, 3m wide along Mildenhall dismantled railway line, curving towards the junction of Fison Road and Ditton Lane. At junction with Ditton Lane shared surface path, landscape adjustments required to provide sufficient turning space for cycles travelling towards

Bottisham. Copenhagen-style crossing to the junction of Fison Road and Ditton Lane with an improved shared-use link via a continuous foot/cycleway across the entrance of Fison Road (6m x 6m). A steep dropped kerb and tightened junction geometry reduces the vehicle speeds to a minimum, so as to improve the safety of cycles and pedestrians. White painted give way markings on road surface indicate priority over junction. Shared surface path is widened to 5m - 6m, allowing for a minimum 0.7m verge separating path from busy road. Improvements to the existing signalised crossing over Ditton Lane is required to widen the crossing and create a toucan crossing for cyclists traveling along the Bottisham Greenway. Adjustments to existing landscaping required to accommodate expanded path width.

- 1 Shared surface path 3m wide
- Priority to cyclists over Fison Road using continuous footway / copenhagen crossing
- 3 Adjustments to junction geometry
- 4 Steep dropped kerb
- White painted give way markings on road surface
- 6 Landscaped verge
- (7) Adjustments to landscape
- 8 Relocated tree and electrical boxes
- (9) Toucan crossing

Bo.17.B.ii - Raised Table to Fison Road

Shared surface path, 3m wide along Mildenhall dismantled railway line, curving towards the junction of Fison Road and Ditton Lane. At junction with Ditton Lane shared surface path, landscape adjustments required to provide sufficient turning space for cycles travelling towards Bottisham. Using the existing raised table on Fison Road, a new shared-use link 4m wide via a raised table with priority over Fison Road improves the safety of cycles and pedestrians. White painted give way markings on road surface indicate priority over junction. Adjustments to the existing landscape surrounding private residences is required to form a new path alignment. An electrical box and a lighting colomn needs moving to a new landscaped area at the southern corner of the Fison Road, Ditton Lane junction. Improvements to the existing signalised crossing over Ditton Lane is required to widen the crossing and create a toucan crossing for cyclists traveling along the Bottisham Greenway.

- 1 Shared surface path 3m wide
- 2 Priority to cyclists over Fison Road using raised table
- 3 Adjustments to junction geometry
- White painted give way markings on road surface
- 5 Landscaped verge
- 6 Adjustments to landscape
- Relocated tree and electrical boxes
- 8 New hedge
- (9) Toucan crossing



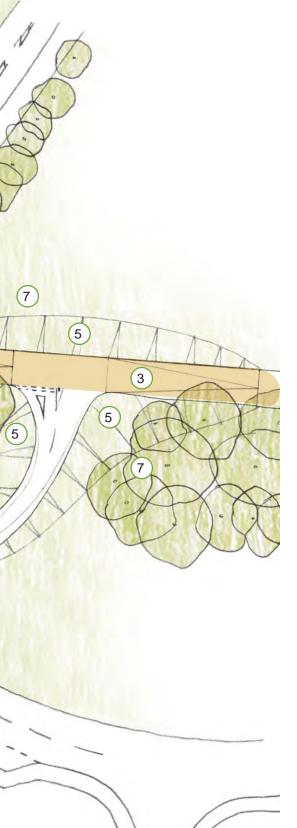
Existing photograph of Raised Table to Fison Road











Bo.17.C - Ditton Lane Underpass

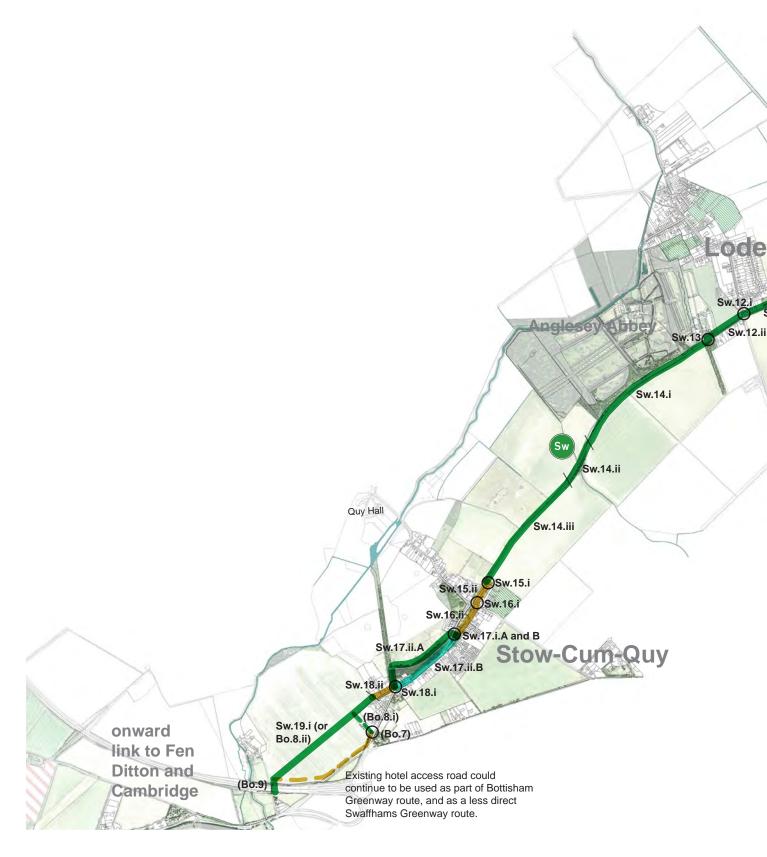
New box-jacked underpass to Ditton Lane, 4.5m wide, 15m long, 2.6m deep (excluding structural depth). New approach ramps utilise the existing slight elevation of the road level (1.5m) above lowest ground level along the dismantled railway. Two two-stage ramp of 40-45m length form 1:20 ramps to allow for 3.5m depth between the road surface and the underpass finished floor level. Works required for ground excavation, and embankment construction, alongside works to the existing landscaping. Additional ramp up to Fison Road 25-30m long to allow pedestrians and cyclists to continue along Ditton Lane shared surface path towards Fen Ditton. Solar studs required to signal the greenway route. Land acquisition required, subject to landholder agreements, and further technical studies are required.



Existing photograph of Ditton Lane Underpass

- 1 Shared surface path 3m wide
- 2 New box-jacked underpass
- New approach ramp
- 4 Additional ramp up to Fison Road
- 5 Landscaped embankment
- 6 Adjustments to existing shared surface paths along Ditton Lane
- 7 Adjustments to landscape
- 8 New Tree

SWAFFHAM GREENWAY INITIAL PROPOSAL











Existing photograph of Swaffham Prior High Street Junction with B1102 Sliproad

Sw.2.ii - Swaffham Prior High Street Junction with B1102 Sliproad

Remove existing cycle lane infrastructure at junction of High Street and B1102 sliproad on each side of the carriageway, works to existing landscaping where necessary. Closure of sliproad to vehicular traffic, allowing for two way segregated cycle path in place of the existing carriageway, with pedestrian path remaining as is. New give way markings at newly formed 'T' junction'. Extend carriageway at junction with B1102 to allow vehicles to run left (in lieu of slip road) with corresponding changes to signage. Village sign and speed limit sign required for vehicles existing the B1102 and entering Swaffham Prior Village. Greenway bollard marks the closure to vehicular traffic of the former sliproad and

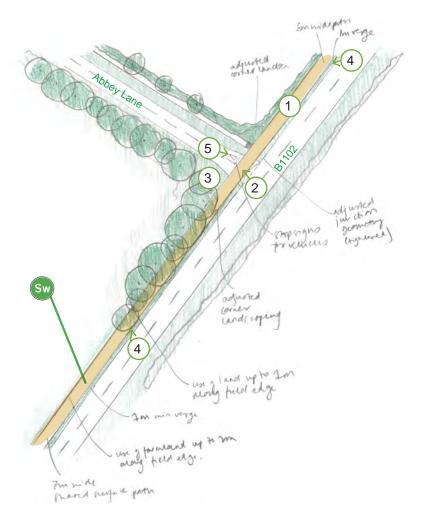
signals the greenway route, white painted cycle markings highlight presence of cycles at junction and reinforce route.



Sw.3.ii - B1102 Junction with Abbey Lane

Extend existing shared surface path to 3m, maintaining an existing strip of verge, 1m wide. Allow for grassy verge 0.5m wide minimum to separate farmland from carriageway. Subject to landholder agreement. Solar studs required to signal the greenway route. As Abbey Lane is a

low trafficked road, a continuous footway and tightened corner geometry gives priority to cycles and pedestrians over vehicles. A steep dropped kerb reduces the vehicle speeds to a minimum, so as to improve the safety of cycles and pedestrians. White painted give way markings on carriageway surface enforce shared path priority. Subject to landholder agreement.

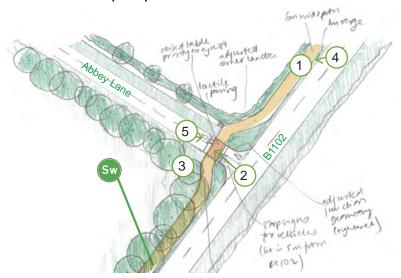




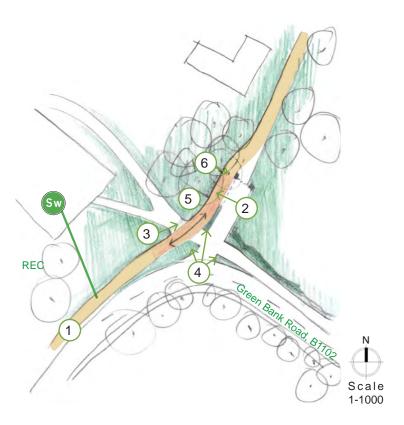
Existing photograph of B1102 Junction with Abbey Lane

- 1 Shared surface path 3m wide
- 2 Priority to cyclists over side roads and private entrances using continuous path and steep dropped kerb
- 3 Adjustments to junction geometry
- (4) Landscaped verge
- Give way signs for vehicular

Possible Alternative principle



- 1 Shared surface path 3m wide
- Priority to cyclists over side roads and private entrances using set back raised table
- Adjustments to junction geometry
- (4) Landscaped verge
- Give way signs for vehicular traffic



Sw.6 - Shared surface path Junction with Private Driveway and Swaffham Bulbeck Recreation Ground

New coloured surface from gateway to 10m within the recreation ground to clarify priority over private entrances. White painted cycle and give way markings on carriageway surface reinforce priorities. A planted verge between the shared surface path and driveway entrances separate the path from vehicular trafficked areas, and dissuades parking over the shared use path. One greenway bollard required to signal the greenway route through Swaffham Bulbeck recreation ground. Solar studs required to signal the greenway route. Subject to landholder agreement.

- 1 Shared surface path 3m wide
- Priority to cyclists over private entrances using coloured surface and white painted cycle markings
- Adjustments to path junction
- 4 Landscaped verge
- 5 Adjustments to landscape
- 6 Bollard





Existing photograph of Shared surface path Junction with Private Driveway and Swaffham Bulbeck Recreation

Sw.7 - Around Swaffham Bulbeck Recreation Ground

Extend existing pedestrian path around recreation ground from 1m to 3m wide, with 1m minimum planted verge. May require small amount of land excavation to create a level path, due to raised level of recreation ground. Five lighting colomns to be relocated to verge, alongside two telegraph poles, and three road signs.



Existing photograph of Around Swaffham Bulbeck







Existing photograph of B1102 Junction with White Droveway

Sw.9.iv - B1102 Junction with White Droveway

Changes to existing junction geometry required to allow for safer crossing over White Droveway. Reformed as single 'T'-junction with ped/cycle path gently curving back away from the junction to meet a priorty crossing over the side road

with white painted give way markings set back from junction. Planting widened to accommodates this change in junction geometry. Two bollards required to signal greenway route. Possible land aquisition required, subject to landholders agreement.

- 1 Shared surface path 3m wide
- Priority to cyclists over side roads through white painted give way markings on carriageway surface
- 3 Adjustments to junction position
- 4 Landscaped verge
- 5 Widened planted landscape

Sw.10 - B1102 Junction with Longmeadow

Changes to existing junction geometry required to allow for safer crossing over Longmeadow. Longmeadow carriageway curves around to the east to allow for more space at Sun and Gate House, 1 Longmeadow, avoiding existing telecommunications poles. Shared surface path has ample space to smoothly approach the Longmeadow crossing point at 90' angle for improved visibility. A new raised table alongside white painted give way signs allow clear priority of pedestrians and cyclists over vehicles, and alows vehicles down joining or existing the B1102. Planting widened alongside Sun and Gate House provides an improved pedesitran and cycle route

off the greenway and accommodates this change in junction geometry. Two bollards required to signal greenway route. Land aquisition required along the eastern plot, subject to landholders agreement.



Existing photograph of B1102 Junction with Longmeadow







Existing photograph of Lode Road Junction with Swaffham Road and Quy Road

Sw.12.i - Lode Road Junction with Swaffham Road and Quy Road

Wholesale junction reconfigured to reduce vehicle speeds through Lode Village by tightening all corner geometries to improve the safety for pedestrians and cyclists. A widened shared surface path curves around existing alignment, and

along existing driveway to Lode Road. A new raised table, 6m wide set back from junction, provides a safe uncontrolled crossing over Lode Road. White painted cycle markings on carriageway surface to reinforce priorities. A new section of shared surface path cuts across the corner of farmland to provide a wide planted area with new trees marking the entrance to Lode Village. Each green area is landscaped with new trees and new planting to celebrate the village green. Four greenway bollards required to signal the Swaffham greenway route. Land aquisition required, subject to landholders agreement. Allowance for locally-led public realm improvements around village sign.

- 1 Shared surface path 3m wide
- Priority to cyclists over side roads using raised table
- (3) Adjustments to junction geometry
- White painted cycle markings on carriageway surface
- 5 Landscaped verge
- 6 Adjustments to landscape
- 7 New Tree
- 8 Additional raised table to give priority to school children crossing Lode Road

Sw.13 - Quy Road Crossing at Anglesey Abbey

Widen existing shared surface path from 2m to 3m with a 1m minimum verge separating the path from the carriageway. Remove layby along Quy Road and allow path to continue unobstructed to Anglesey Abbey. May require repositioning of hedge along Anglesey Abbey land slightly north to allow for appropriate width. Crossing aligned to entrance of Anglesey Abbey. Widen existing central refuge to 3m x 4m wide. Adjustments to road geometry required to increase width of road from 8m to 9m, to allow for 3m wide road width either side of 3m wide island. Use additional width to introduce right-turn filter lane into Anglesey Abbey. On north side, path to be removed on west side of crossing, and entrance to Anglesey Abbey to be improved with a widened entrance for cyclists. On south side of crossing, realignment and extension required to for a 90' angle to existing path through woodland to follow alignment of felled tree. Landscaping adjustments required. Two greenway bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.



Existing photograph of Quy Road Crossing at Anglesey Abbey







Existing photograph of Lode to Stow-Cum-Quy Existing Path Junction with Quy Court

Sw.15.i - Lode to Stow-Cum-Quy Existing Path Junction with Quy Court

Reconfiguration of the access road, adjustments to the geometry and parking relocation at the northern end of Quy Court, to allow continual and clear shared surface path through Quy Court. Removal of the existing unnecessary 'in only' access to be replaced with new planting and landscaping adjustments with a continual wrap around pedestrian footpath to allow a direct and legible cycle connection through and around Quy Court. Adjustments to existing path to Lode required to join with proposed changes to Quy Court junction, with a new section of pedestrian footway to wrap around east side of path to allow clear pedestrian route to recreation ground.

Pedestrian footpaths to join with shared surface path, north of landscaped area, with priority to shared surface path users. White painted cycle markings at junction to indicate cycles should look two ways before joining quiet road. Six new trees to the north of the junction required. One bollard required at northern end to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.



- 1) Shared surface path 3m wide
- 2 Priority to cyclists on quiet road
- Adjusted geometry to Quy Court to form direct route
- (4) Relocated parking bays x 3
- 5 Closed secondary entrance to Quy Court
- 6 Adjustments to existing path to join with new path
- 7 New pavement
- 8 Adjustments to landscaping
- 9 New Trees
- 10 Possible location for future access
- (11) Bollard



Existing photograph of Lode to Stow-Cum-Quy Existing Path Junction with Quy Court









Existing photograph of Quy Court Junction with Main Street and Albert Road

Sw.16.i - Quy Court Junction with Main Street and Albert Road

Wholesale junction improvements to Main Street, Albert Road and Quy Court Junction. Tightened junction geometry along Main Street to provide a defined carriageway and additional public realm. On the east, spill-out space outside The

White Swan pub allows for a forecourt for pub seating and additional space for a tree to be planted. On the west, a new area of planted landscaping acts as a village green. A raised table across the junction forms clear priority over the junction to Main Street and Quy Court. White painted cycle and give way markings on the carriageway surface enforce this priority. Parking is relocated to a designated area on the west side of Main Street, and to the north edge of the pub for local residents. Two bollards are required to signal the greenway route. Two new trees, planting and landscaping required.

- Tightened junction geometry
- New public realm seating for The White Swan pub
- (3) New planted landscaping
- Raised table across junction gives priority to cyclists to Quy Court
- White painted cycle and give way markings on carriageway surface
- 6 Designated parking bays
- (7) New tree

Sw.1.A.i - Main Street, Stow Road and Herring's Close Junction - Option 1

Closure of existing junction of Stow Road and Main Street to vehicular road users, allowing new areas of landscaping and the creation of a new pedestrian and cycle crossing point providing access to the two onward route options. A bollard set within the centre of the path prevents vehicules using the access route. Priority is given to Herring's Close which curves into Main Street. New landscaping enforces change in geometry and enhances landscaping of Stow-Cum-Quy village green. Closure of layby used for Herring's Close Bus Stop along Main Street allows for an on-road bus stop, with a new landscaped area, enforcing the closure of Main Street and Stow Road junction. Stow Road speed reduction from 30mph to 20mph through village. A shift in Stow Road layout and white painted markings is required to form a new central refuge, 12m x 3m providing safe crossing to the northern side of Stow Road. A new path through highway and private woodland aligns with central refuge. Requires landscaping and wayfinding improvements including five bollards and twelve trees.

- 1 Closure of Main Street junction with Stow Road
- 2 New central refuge
- New landscaping to enforce change in geometry
- (4) Floating bus stop
- Shifted road layout to make space for central refuge
- 6 Shared surface path through woodland
- 7 New tree
- 8 Bollard



Existing photograph of Main Street, Stow Road and Herring's Close Junction







Existing photograph of Main Street, Stow Road and Herring's Close Junction

Sw.1.A.i - Main Street, Stow Road and Herring's Close Junction - Option 2

Main Street junction with Herring's Close to remain as is, with the minor adjustments to areas of landscaping. Stow Road speed reduction from 30mph to 20mph through village. A shift in Stow Road layout and white painted markings is required to form a new central refuge, 12m x 3m providing safe crossing to the northern side of Stow Road. A new path through highway and private woodland aligns with central refuge. A bollard set within the centre of the path prevents vehicules using the access route. Requires landscaping and wayfinding improvements including five bollards and eleven trees.

- 1 New central refuge
- 2 Landscaping adjustments
- 3 Bus stop
- 4 Adjustments to road layout
- 5 Shared surface path through woodland
- (6) New trees
- 7 Bollard

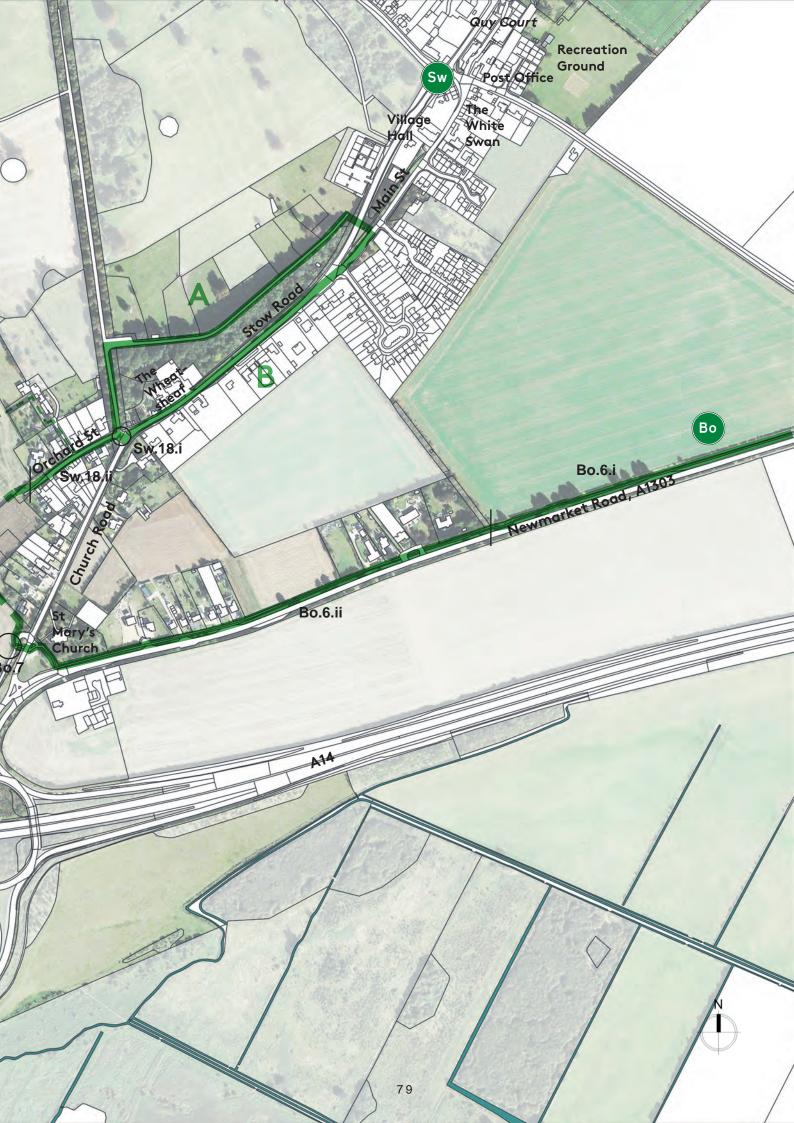


Sw.1.A.i - Main Street, Stow Road and Herring's Close Junction - Option 3

Adjusted geometry to existing junction of Stow Road and Main Street, allowing new areas of landscaping and the creation of a new pedestrian and cycle crossing point providing access to the two onward route options. A bollard set within the centre of the path prevents vehicules using the access route. Vehicular priority is given to Herring's Close which curves into Main Street. New landscaping enforces change in geometry and enhances landscaping of Stow-Cum-Quy village green. Closure of layby used for Herring's Close Bus Stop along Main Street allows for an on-road bus stop, with a new landscaped area, enforcing the closure of Main Street and

Stow Road junction. Stow Road speed reduction from 30mph to 20mph through village. A shift in Stow Road layout and white painted markings is required to form a new central refuge, 12m x 3m wide. A new path through highway and private woodland aligns with central refuge. Requires landscaping and wayfinding improvements including four bollards and thirteen trees.









Existing photograph of Stow Road junction with Church Lane, Orchard Street and Shared Surface Path

Sw.18.i - Stow Road junction with Church Lane, Orchard Street and Shared Surface Path

Wholesale junction reconfigured to reduce vehicle speeds through Stow-Cum-Quy village centre. A new planted roundabout sits on a raised table (approx 40m x 8m) in the centre of Orchard Street, Church Road and Stow Road junction. The raised table material highlights the moment of entering the heart of the village. A line of contrasting paving stones indicate priority to continue along Stow Road and Church Road over Orchard Lane. Adjusted geometry required to the existing landscaped edges of the roads to match these changes in geometry. Two new trees, and three new bollards are required to signal the greenway route.

Sw.19.i - Path Through Farmland

New shared surface path along field edge, 3m wide with minimum 1m grassy strip on either side to allow for hedgerow and tree planting along path length. Where the path along the field edge converges with the Bottisham Greenway route (see Bo.8.i) two bollards are required to signal the Swaffham Greenway route. Solar studs required to signal the greenway route. Land acquisition required, subject to landholders agreement.



Existing photograph of Path Through Farmland



Path through farmland without trees and additional planting



SIGNAGE



All twelve currently proposed Greenway routes could be signified with a two letter contraction of the full Greenway origin village name.

Could the naming of key junctions within the emerging network - in the manner of a 'knooppunt' (trans: button node) signage/ network map - be based on village names rather than the dutch practice of allocated each node a number?

Ва Barton Во **Bottisham** Co Coton Fu Fulbourn Haslingfield На Но Horningsea Li Linton Melbourn Me Sa Sawston St St Ives Sw Swaffhams Wa Waterbeach





Timber Posts

- Natural material appropriate to mostly rural setting.
- Subtly distinctive. Round profile related to logo shape - distinguishes it from the usual square profile timber posts.
- If sign-face also curved, the sign is visible for longer as one passes by, suitable for passing by at greater speed - i.e. on a bike.
- Standard product cost effective easily replaced.
- Can be fitted with recess/reflective strip at top.

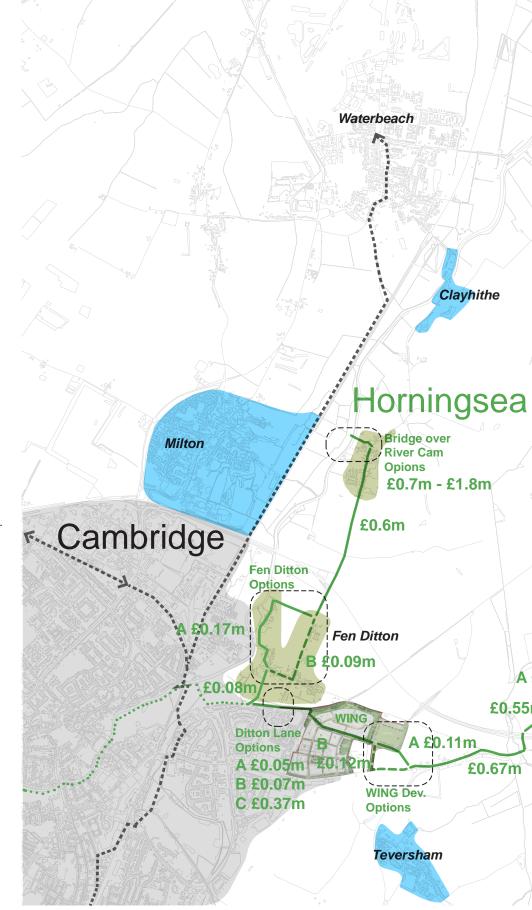


Above: Broxap BX17 https://www.broxap.com/bx17-flat-round.html

PRELIMINARY COSTINGS

Fulkers have calculated high level costs, based on the preliminary designs outlined here. These are intended to assist the GCP in establishing initial project budgets. We recommend that these costings are reviewed and updated following concept design work after public consultation.

On the following page there is a summary of the overall construction costs for the various sections and options of the route, for comparison. The next page outlines the cost of our preliminary route recommendation and on subsequent pages there is a table showing the breakdown of the initial assessment of construction cost related to each area of work (including options) identified on the route plans that feature on pp22-23, 38-39 and 62-63 of this report. The costs included in that table are for the basic construction cost only and do not include Professional Fees, any Contingency allowance, including any major works to re-route utilities, or VAT.







Во **Construction Costs**

Overall range



Overall range

~ £1.4M - £2.7M ~ £2M - £2.4M **Overall range**

~ £2.2M - £2.5M

HORNINGSEA COSTING

Fulkers' Constuction Cost Estimate - August 2019

Construction Cost only - excludes Professional Fees, Contingency or Risk Allowances, VAT and Inflation.

Ref.	Name.	Route	Path	Works	Cost (£)
		Type:	width		
Ho.1.A	Bridge over	Quiet road /	n/a	New pedestrian and footway bridge over River Cam via	653,850
	River Cam via	Bridge		Dock Lane quiet road. Bridge height to be approximately	
	Dock Lane			3.2m clearance (as set by proposed downstream bridge over	
				River Cam, Chesterton Bridge), also within range of Baits	
				Bite Lock, approx. 3m. Exact height to be confirmed with the	
				Conservators of the River Cam for future development stages.	
				New bridge over River Cam to be 3m wide shared surface	
				path. Maintenance required to existing quiet road surface. Four	
				bollards required to signal the Horningsea greenway route.	
				Solar studs required to signal the greenway route. Subject to	
				landholders agreement.	
Ho.1.B	Bridge over	Quiet road /	n/a /	New pedestrian and footway bridge over River Cam via St	652,725
	River Cam via	Bridge	3m	John's Lane quiet road. Bridge height to be approximately	
	St John's Lane			3.2m clearance (as set by proposed downstream bridge over	
				River Cam, Chesterton Bridge), also within range of Baits	
				Bite Lock, approx. 3m. Exact height to be confirmed with the	
				Conservators of the River Cam for future development stages.	
				New bridge over River Cam to be 3m wide shared surface	
				path. Maintenance required to existing quiet road surface. Four	
				bollards required to signal the Horningsea greenway route.	
				Solar studs required to signal the greenway route. Subject to	
				landholders agreement.	
Ho.1.C	Bridge over	Shared	3m	New pedestrian and footway bridge over River Cam via Private	690,038
	River Cam via	surface path		Lane. Bridge height to be approximately 3.2m clearance (as set	
	Private Lane	/ Bridge		by proposed downstream bridge over River Cam, Chesterton	
				Bridge), also within range of Baits Bite Lock, approx. 3m. Exact	
				height to be confirmed with the Conservators of the River Cam	
				for future development stages. New bridge over River Cam to	
				be 3m wide shared surface path. New road surface required	
				to private road to ensure smooth cycle surface. Four bollards	
				required to signal the Horningsea greenway route. Solar studs	
				required to signal the greenway route. Subject to landholders	
				agreement.	

Ho.1.D.1	Bridge over	Shared	3m	New pedestrian and footway bridge over River Cam via Jubilee	769,225
	River Cam via	surface path		Green and the Edge of Goose Green Play Area. Bridge height	
	Jubilee Green	/ Bridge		to be approximately 3.2m clearance (as set by proposed	
	and the Edge of			downstream bridge over River Cam, Chesterton Bridge), also	
	Goose Green			within range of Baits Bite Lock, approx. 3m. Exact height to be	
	Play Area			confirmed with the Conservators of the River Cam for future	
				development stages. New bridge over River Cam to be 3m	
				wide shared surface path. New shared surface path required	
				around the Goose Green play area and through Jubilee Green	
				to ensure smooth cycle surface. Five bollards required to signal	
				the Horningsea greenway route. Solar studs required to signal	
				the greenway route. Subject to landholders agreement.	
Ho.1.D.2	Bridge over	Quiet road	n/a /	New pedestrian and footway bridge over River Cam via Jubilee	793,100
	River Cam via	/ Shared	3m /	Green, Abbots Way and Priory Road quiet roads. Bridge height	
	Jubilee Green,	surface path	3m	to be approximately 3.2m clearance (as set by proposed	
	Abbots Way	/ Bridge		downstream bridge over River Cam, Chesterton Bridge), also	
	and Priory			within range of Baits Bite Lock, approx. 3m. Exact height to be	
	Road			confirmed with the Conservators of the River Cam for future	
				development stages. New bridge over River Cam to be 3m wide	
				shared surface path. New shared surface path required through	
				Jubilee Green to ensure smooth cycle surface. Maintenance	
				required to existing quiet road surfaces along Abbots Way and	
				Priory Road. Six bollards required to signal the Horningsea	
				greenway route. Solar studs required to signal the greenway	
				route. Subject to landholders agreement.	
Ho.1.E	Bridge over	Quiet road	n/a /	New pedestrian and footway bridge over River Cam via private	788,100
	River Cam	/ Shared	3m /	land, local allotments and Priory Road. Bridge height to be	
	via Private	surface path	3m	approximately 3.2m clearance (as set by proposed downstream	
	Land, Local	/ Bridge		bridge over River Cam, Chesterton Bridge), also within range	
	Allotments and			of Baits Bite Lock, approx. 3m. Exact height to be confirmed	
	Priory Road			with the Conservators of the River Cam for future development	
				stages. New bridge over River Cam to be 3m wide shared	
				surface path. New shared surface path required around/through	
				private land and alongside the village allotments to ensure	
				smooth cycle surface. Maintenance required to existing quiet	
				road surfaces along Priory Road. Six bollards required to signal	
				the Horningsea greenway route. Solar studs required to signal	
				the greenway route. Subject to landholders agreement.	

Ho.1.F	Bridge over River Cam via Edge of Private Land and Plough and Fleece Car Park	Quiet road / Shared surface path / Bridge	n/a / 3m / 3m	New pedestrian and footway bridge over River Cam via edge of private land and Plough and Fleece Car Park. Bridge height to be approximately 3.2m clearance (as set by proposed downstream bridge over River Cam, Chesterton Bridge), also within range of Baits Bite Lock, approx. 3m. Exact height to be confirmed with the Conservators of the River Cam for future development stages. New bridge over River Cam to be 3m wide shared surface path. New shared surface path required around/ through private land and alongside the village allotments to ensure smooth cycle surface. Maintenance required to existing quiet road surfaces along the Plough and Fleece Car Park. Six bollards required to signal the Horningsea greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.	1,802,850
Ho.1.G	Bridge over River Cam via Private Land and Plough and Fleece Car Park	Quiet road / Shared surface path / Bridge	n/a / 3m / 3m	New pedestrian and footway bridge over River Cam via centre of private land and Plough and Fleece Car Park. Bridge height to be approximately 3.2m clearance (as set by proposed downstream bridge over River Cam, Chesterton Bridge), also within range of Baits Bite Lock, approx. 3m. Exact height to be confirmed with the Conservators of the River Cam for future development stages. New bridge over River Cam to be 3m wide shared surface path. New shared surface path required through private land to ensure smooth cycle surface. Maintenance required to existing quiet road surfaces along the Plough and Fleece Car Park. Five bollards required to signal the Horningsea greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.	1,307,725
Ho.1.H	Bridge over River Cam via Edge of Brickafields	Shared surface path / Bridge	3m	New pedestrian and footway bridge over River Cam via edge of Brickafields. Bridge height to be approximately 3.2m clearance (as set by proposed downstream bridge over River Cam, Chesterton Bridge), also within range of Baits Bite Lock, approx. 3m. Exact height to be confirmed with the Conservators of the River Cam for future development stages. New bridge over River Cam to be 3m wide shared surface path. New shared surface path required through private land and along edge of Brickafields to ensure smooth cycle surface. Four bollards required to signal the Horningsea greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.	1,266,350
Ho.1.I	Bridge over River Cam via Edge of Horningsea Cemetary along Private Land	Shared surface path / Bridge	3m	New pedestrian and footway bridge over River Cam via edge of Horningsea Cemetary along farmtrack in private land. Bridge height to be approximately 3.2m clearance (as set by proposed downstream bridge over River Cam, Chesterton Bridge), also within range of Baits Bite Lock, approx. 3m. Exact height to be confirmed with the Conservators of the River Cam for future development stages. New bridge over River Cam to be 3m wide shared surface path. New shared surface path required through private land along boundary line, and along farm track alignment. Five bollards required to signal the Horningsea greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement.	1,066,475

Ho.1.J	Bridge over	Shared	3m	New pedestrian and footway bridge over River Cam via	1,148,975
	River Cam via	surface path		existing public footpath to Baits Bite Lock. Bridge height to be	, -,-
	Footpath to	/ Bridge		approximately 3.2m clearance (as set by proposed downstream	
	Baits Bite Lock			bridge over River Cam, Chesterton Bridge), also within range	
				of Baits Bite Lock, approx. 3m. Exact height to be confirmed	
				with the Conservators of the River Cam for future development	
				stages. New bridge over River Cam to be 3m wide shared	
				surface path. New shared surface path surface required along	
				existing public footpath alignment. Five bollards required to	
				signal the Horningsea greenway route. Solar studs required to	
				signal the greenway route. Subject to landholders agreement.	
Ho.1.K	Bridge over	Shared	3m	Works to existing Baits Bite Lock footbridge over River Cam via	630,500
	River Cam via	surface path		existing public footpath to Baits Bite Lock. Footbridge to have	000,000
	Baits Bite Lock	/ Bridge		improved????? New shared surface path surface required	
	Baile Bile Look	, Bridge		along existing public footpath alignment. Four bollards required	
				to signal the Horningsea greenway route. Solar studs required	
				to signal the greenway route. Subject to landholders agreement.	
Ho.2.i	Horningsea	Quiet road	n/a	Maintenance required to quiet road surface with white painted	13,750
110.2.1	High Street	Quict road	TI/A	cycle markings on carriageway surface to highlight road type.	10,700
	Tilgii Otroct			Speed limit reduced to 20mph through village.	
Ho.2.ii	Horningsea	Quiet road	n/a	Maintenance required to quiet road surface with white painted	8,750
110.2.11	Road, B1047	Quiet Toau	II/a	cycle markings on carriageway surface to highlight road type.	0,730
	Road, B1047			Speed limit reduced to 20mph through village.	
Ho.3	Horningsea	Junction	n/a	Maintenance required to quiet road surface with white painted	34,875
по.3	Village Junction	Junction	II/a	cycle markings on carriageway surface to highlight road type.	34,073
	with Shared			Speed limit reduced to 20mph through village. At junction with	
	Surface Path				
	Sullace Falli			village entrance, a raised table provides a transition for cyclists to mount the shared use path from the quiet road treatment.	
				For cycles traveling southbound towards Cambridge, a jug	
				handle allows them to cross Horningsea Road using the raised	
				table, safely. The village entrance is built out with a new tree,	
				additional fencing to mirror the existing gateway feature, and	
				give way markings painted on the carriageway surface allow	
				priority to cyclists joining or leaving Horningsea Road, and for	
				vehicles existing the village - over vehicles entering the village.	
IIo 4:	Llorningooo	Shared	2.00	Solar study required to signal the greenway route.	40.750
Ho.4.i	Horningsea		3m	The existing shared use path is extended to align with works to	48,750
	Road,	surface path		the village entrance. Introduce a soft landscaped verge 0.5m	
	B1047 from			minimum in the currently sealed asphalt margin between the	
	Horningsea			shared-use path and the road, with potential for further widening	
	Village Gateway			of the path on the west Junction of the Byway and Horningsea	
	to Biggins Lane			Road side to accommodate this. Solar studs required to signal	
11. 4."	11	1		the greenway route.	45.040
Ho.4.ii	Horningsea	Junction	n/a	Introduce a soft landscaped verge 0.5m minimum in the	15,313
	Road, B1047			currently sealed asphalt margin between the shared-use	
	Junction with			path and the road, and use verge to tighten private entrance	
	Biggins Lane			to Biggins Lane to lower speeds of vehicles turning into	
				and existing private road. Solar studs required to signal the	
				greenway route.	

Hon-Jill Homingsea Road, B1047 Road						
From Biggins Lane to A14 Silproad North Silproad Silproad North	Ho.4.iii	Horningsea	Shared	3m	Introduce a soft landscaped verge 0.5m minimum in the	105,125
Lane to À14 Siproad North		Road, B1047	surface path		currently sealed asphalt margin between the shared-use path	
Silproad North Silproad South South Silproad North Silproad South Silproad North		from Biggins			and the road, with potential for further widening of the path	
Ho.S.i Bridge over A14 Signorad, using land to the west Landscaping required to the land to the west to sign with existing shared use path level, using shear burging with fence on top. Shared use path curves to the existing signalised crossing point to provide a widened and safer crossing point to provide a control of the currently signal the greenway route. Solar studs required to signal the greenway route. Solar studs required along bridge. White painted carriageway markings shuffled to provide adequate space for shared surface path is shifted sightly to the west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barrie		Lane to A14			towards the east to take up some of the existing carriageway	
He.S.II Horningsea Hornings		Sliproad North			spill-over zone. Widen verge at junction of shared use path with	
Ho.5.il Homingsea Shared					A14 sliproad, using land to the west. Landscaping required to	
Ho.S.i I Homingsea Road, B1047 A14 Shared Surface path / Bridge over A14 / Bridge A14 Shared path / Bridge Shared Shared path / Bridge Shared Shared path / Bridge Shared					the land to the west to align with existing shared use path level,	
Ho.S.i Homingsea Road, B1047 A14 Siproad North to Bridge over A14 Homingsea Road, B1047 A14 Siproad North to Bridge over A14 A15					using sheet puling with fence on top. Shared use path curves to	
Ho.5.i Homingsea Road, B1047 and 14 A14 Sliproad South Road, B1047 Junction with A14 Sliproad South Road, B1047 Junction with A14 Sliproad South Road, B1047 Junction with Road, B1047 Junction with Road, B1047 Junction with Road, B1047 Junction with Road South Road, B1047 Junction with Road, B1047 Junction with Road South Road, B1047 Junction with Road South Road Road South Road Road Road Road Road South Road Road Road Road Road Road Road Road					the existing signalised crossing point to provide a widened and	
Ho.5.i Homingsea Road, B1047 Crossing Signal the greenway route. Subject to landholders agreement.					safer crossing point for pedestrians and cyclists. One bollard	
Ho.5.II Homingsea Road, B1047 from A14 Siproad South to B-5.III Albraids and Salaria Road Brown Roa					required to signal the greenway route. Solar studs required to	
Road, B1047 from A14 / Crossing Sliproad North to Bridge over A14 Ho.S.ii Horningsea Road, B1047 South Ho.S.iii Horningsea Road, B1047 Road, B1047 Road, B1047 South Road, B1047 Road, B1047 South Road, B1047 Road, B1047 South Road, B1047 South Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road Road Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road Road Road, B1047 From A14 Sliproad South to Fore Ditton Byway Surface path Road Road Road Road Surface path Road Road Road South to Fore Ditton Byway Surface path Road Road Road Sufface Path Index Surface path Index Branch Use path and the road, with potential for further witedning of the path on the west side of the shared surface path alonh Horningsea Road Side to accommodate this. The upgraded shared use path and the road, with potential for further widening of the path on the west side o					signal the greenway route. Subject to landholders agreement.	
From A14 Siproad North to Bridge over A14 Siproad North to Bridge over A14 Siproad North to Bridge over A14 Siproad South	Ho.5.i	Horningsea	Shared	3m	Continue soft landscaped verge 0.5m minimum in the currently	127,751
Sliproad North to Bridge over A14 Sliproad South to Bridge over A14 Sliproad North to Bridge over A14 Sliproad South A14 Sliproad South B19way Name A14 Sliproad South A14 Slipr		Road, B1047	surface path		sealed asphalt margin between the shared-use path and the	(66,813 re-
Ho.S.ii Homingsea Road, B1047 Junction with A14 Silproad South South A14 Silproad South A14 Silproad South A14 Silproad South A14 Silproad South Road		from A14	/ Crossing		road to separate cycles from carriageway. At the junction, the	quired cost,
Ho.S.ii Homingsea Road, B1047 Junction with A14 Silproad South South A14 Silproad South A14 Silproad South A14 Silproad South A14 Silproad South Road		Sliproad North			shared use path curves to the existing crossing point to provide	60,938
Ho.5.ii Horningsea Road, B1047 Junction with A14 Sliproad South Ho.5.ii Horningsea Road, B1047 South Ho.5.ii Horningsea Road, B1047 Junction with A14 Sliproad South Ho.5.ii Horningsea Road, B1047 from A14 Sliproad South Ho.5.ii Horningsea Road, B1047 from A14 Sliproad South Ho.5.ii Horningsea Road, B1047 from A14 Sliproad South Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Horningsea Road B1047 from A14 Sliproad South to Fen Ditton Byway Horningsea Road B1047 from A14 Sliproad South to Fen Ditton Byway Horningsea Road Silproad South to Fen Silproad South to Fen Ditton Byway Horningsea Road Silproad South to Fen Silproad South to Fen Ditton Byway Horningsea Road Silproad South to Fen Silproad South to Fen Ditton Byway Horningsea Road Silproad South to Fen Silproad South to Fen Ditton Byway Horningsea Road Bybatt with existing partice to signal the greenway route. Horningsea Road Bybatt with the west to allow for sufficient length for a cyclist to be positioned at 90' to the junction.						
Bridge over A14 Shared surface path Abridge Shared surface path Abridge steep Abri		_				additional
Ho.5.ii Bridge over A14 Shared surface path / Bridge between the shared-use path curves from the existing signalised crossing to surface path / Bridge surface surface surface path / Bridge surface surface surface path / Bridge surface surface surface path width. Shared surface path is shifted slightly to the west to allow for a better crossing position over the A14 sliproad. At the south side of the crossing, the path is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Solar studs requ						
Ros. Bridge over A14 Shared surface path / Bridge Shared use path curves from the existing signalised crossing to provide a widened and safer crossing point for pedestrians and cyclists. Widen verge at junction of shared use path with A14 sliproad, using land to the west. Landscaping required to align with existing signalised crossing. Introduction of a planted verge between the shared-use path and the roadway, and installation of a screening device to provide a greater degree of visual and sound protection at the bridge edge. New planting and landscaping required along bridge. White painted carriageway markings shuffled to provide adequate space for shared surface path and verge along bridge. No works required to east side of bridge. Solar studs required to signal the greenway route. Ho.5.III						,
Ho.5.ii Bridge over A14 Shared surface path / Bridge Warley and surface path / Bridge with existing signalised crossing to provide a widened and safer crossing point for pedestrians and cyclists. Widen verge at junction of shared use path with A14 sliproad, using land to the west. Landscaping required to align with existing signalised crossing. Introduction of a planted verge between the shared-use path and the roadway, and installation of a screening device to provide a dequate space for shared surface path and verge along bridge. Now planting and landscaping required along bridge. Now planting and landscaping required along bridge. Now planting and landscaping required along bridge. Now works required to east side of bridge. Solar studs required to signal the greenway route. Ho.5.ii Horningsea Road, B1047 Junction with A14 Sliproad South Side of the crossing the path is shifted slightly to the west to allow for a better crossing position over the A14 sliproad. At the south side of the crossing, the path is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Subject to landholders agreement. Ho.6.i Horningsea Road, B1047 Form A14 Sliproad South to Fen Ditton Byway						
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and sound protection at the bridge edge. New planting and landscaping required along bridge. White painted carriageway markings shuffled to provide adequate space for shared surface path and verge along bridge. No works required to east side of bridge. Solar studs required to signal the greenway route. Ho.5.iii Horningsea Road, B1047 Junction with A14 Sliproad South South A14 Sliproad South A5 South Horningsea Road, B1047 Junction with A14 Sliproad South A15 South A6 South A7 South A7 South A8 Shared South S						
Ho.5.iii Horningsea Road, B1047 Junction with A14 Sliproad South Ho.6.i Horningsea Road, B1047 Junction Byway Ho.6.i Horningsea Road, B1047 Junction With Shared Surface Path and verge along bridge. No works required to east side of bridge. Solar studs required to signal the greenway route. Including the greenway route. Including the greenway route. Including the greenway width and increase shared surface path width. Shared surface path is shifted slightly to the west to allow for a better crossing position over the A14 sliproad. At the south side of the crossing, the path is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement. Including the path on the west side of the course of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
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Ho.5.iii Horningsea Road, B1047 South Road, B1047 Horningsea Road, B1047 South Road, B1047 Horningsea South Road, B1047						
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Ho.5.iii Horningsea Road, B1047 Junction with A14 Sliproad South South Horningsea Road, B1047 South Horningsea South Road, B1047 South Horningsea South Horningsea Road, B1047 South Horningsea Road, B1047 South Horningsea Road, B1047 From A14 Sliproad South Sliproad South Sliproad South Byway Ho.6.i Horningsea Road, B1047 From Ditton Byway Ho.6.i Horningsea Road, B1047 From Ditton Byway Horningsea Road, B1047 From Ditton Byway A14 Sliproad South Sliproad South From Ditton Byway Road, B1047 From Ditton Byway Road, B1047 From Ditton Byway Road, B1047 From A14 Sliproad South From Ditton Byway Road, B1047 From Ditton Byway Road, B1047 From Ditton Byway Road, B1047 From A14 Sliproad South From Ditton Byway Road Side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen Road, B1047 From Ditton Byway Road Side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen Road, B1047 From A14 Sliproad South From A14 Sliproad South From A14 Sliproad South From B14 Road, B1047 From A14 Sliproad South From A15 From A15 From A16 From A16 From A16 From A17 From A17 From A16 From A17 From A17 From A17 From A18 From A18 From A19 Fro						
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Junction with A14 Sliproad South South Horningsea Road, B1047 from A14 Sliproad South Horningsea Road, B1047 from A14 Sliproad South Byway Increase shared surface path width. Shared surface path is shifted slightly to the west to allow for a better crossing position over the A14 sliproad. At the south side of the crossing, the path is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Subject to landholders agreement. Byway To,500 To,500 To,500 Road, B1047 from A14 Sliproad South to Fen Ditton Byway Sliproad South is extended to align with existing and proposed works to Fen	по.э.ш	_	Junction	n/a		67,503
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South So					·	
is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement. Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway is shifted further west to allow for sufficient length for a cyclist to be positioned at 90' to the junction. Localised repositioning and lengthening of the existing barriers, and possible widening of deck are required. Two bollards required to signal the greenway route. Subject to landholders agreement. 70,500 70,500						
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deck are required. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement. Ho.6.i Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Ho.6.i Horningsea Road South to Fen Ditton Byway Horningsea Road Solar Studs required to signal the greenway route. Subject to landholders agreement. Introduce a soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
route. Solar studs required to signal the greenway route. Subject to landholders agreement. Ho.6.i Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Route. Solar studs required to signal the greenway route. Subject to landholders agreement. Introduce a soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
Ho.6.i Horningsea Road, B1047 surface path from A14 Sliproad South to Fen Ditton Byway Shared Subject to landholders agreement. Subject to landholders agreement. Introduce a soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
Ho.6.i Horningsea Road, B1047 from A14 Sliproad South to Fen Ditton Byway Shared Surface path Introduce a soft landscaped verge 0.5m minimum in the currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
Road, B1047 surface path from A14 Sliproad South to Fen Ditton Byway surface path currently sealed asphalt margin between the shared-use path and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen			01 :			70.500
from A14 Sliproad South to Fen Ditton Byway and the road, with potential for further widening of the path on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen	Ho.6.i			3m		70,500
Sliproad South to Fen Ditton Byway on the west side of the shared surface path alonh Horningsea Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen			surface path			
to Fen Ditton Byway Road side to accommodate this. The upgraded shared use path is extended to align with existing and proposed works to Fen						
Byway is extended to align with existing and proposed works to Fen						
		to Fen Ditton				
Discon Colon and the street of the colon of the		Byway				
Ditton. Solar studs required to signal the greenway route.					Ditton. Solar studs required to signal the greenway route.	

Ho.6.ii	Horningsea Road, B1047 Junction with Fen Ditton Byway	Junction	n/a	At the junction of Horningsea Road with the Fen Ditton byway, landscaping works are required to open up the geometry to clarify the turning point. Prominent 'milepost' markers to be installed to highlight turn into the Byway [route A] and widening of the shared-use path on the west side of Horningsea Road towards the school [route B]. Ensure proposals align with current and future works to Fen Ditton. Solar studs required to signal the greenway route.	8,188
Ho.7.A.i	Fen Ditton Byway	Shared surface path / Byway	2m	New shared-use path along the existing Byway, with careful pruning of existing trees and hedgerows to maintain clear width. Bespoke treatment, with surface width, use of over run areas and material to be designed to respect rural character of existing Byway. Leave 0.5m either side of 2m wide shared surfaced path for grassy verge to allow for vehicular and bridleway uses. Adjustments required to landscaping and planting to enhance the existing byway. Solar studs required to signal the greenway route.	166,375
Ho.7.A.ii	Fen Ditton Byway junction with Green End	Junction	n/a	Two bollards required at west side of byway to signal the greenway route.	2,750
Ho.7.A.iii	Green End and Church Street	Quiet road	n/a	No works required to carriageway surface material along Green End and Church Street. White painted cycle markings on carriageway surface to highlight use by cyclists. Four bollards required along stretch of quiet road to indicate greenway route.	4,625
Ho.7.B.i	Horningsea Road, B1047, from Fen Ditton Byway to Fen Ditton Primary School	Shared surface path	2.5m	Proposed Works by GCP only commence at Fen Ditton Primary School. From Fen Ditton Primary School to Fen Ditton Byway, there are no proposed works to the existing path of 350m. Shared use path along Horningsea Road, B1047 is extended from 2m to 2.5m wide minimum with 0.5m verge minimum. Extended path to join up with proposed path changes along Ditton Lane. New planting, and signage required. One bollard required to signal the greenway route.	91,688
Ho.7.B.ii	Horningsea Road, B1047, from Fen Ditton Primary School to Horningsea Road Junction to High Street	Shared surface path	2.5m	Selective path upgrades to route required to link up recent Fen Ditton improvements with proposed greenway route. See GCP website for works to Fen Ditton Cycleway Improvements: https://www.greatercambridge.org.uk/transport/transport-projects/cross-city-cycling/ditton-lane-&-links-to-east-cambridge/	N/A
Ho.7.B.iii	Horningsea Road, B1047 Junction with High Ditch Road, Ditton Lane and High Street	Junction	n/a	Upgrades to junction. See GCP website for works to Fen Ditton Cycleway Improvements: https://www.greatercambridge.org. uk/transport/transport-projects/cross-city-cycling/ditton-lane-&-links-to-east-cambridge/	N/A
Ho.7.B.iv	High Street from Horningsea Road Junction to Wadloes Path	Quiet road	n/a	Selective junction upgrades affecting east side of quiet road. General maintenance required to surface of carriageway with white painted markings to indicate cycle use. Speed limit reduction from 30mph to 20mph. See GCP website for works to Fen Ditton Cycleway Improvements: https://www. greatercambridge.org.uk/transport/transport-projects/cross-city- cycling/ditton-lane-&-links-to-east-cambridge/	N/A

Ho.8	Church Street,	Junction	n/a	Close west arm of the junction to provide a larger green by the	35,781
	Junction with			war memorial and a direct cycle link between Wadloes path	
	High Street and			and Church Street. Path alongside the war memorial joins	
	Wadloes Path			via a raised table with white painted give way markings on	
	through Ditton			carriageway surface to High Street allowing shared surface path	
	Meadows			to have priority over traffic and seamlessley continue through to	
				Ditton Meadows. New cycle parking, an improved entrance to	
				the churchyard, and new planting to enhance the war memorial	
				are required. Two bollards are required to signal the greenway	
				route.	
Ho.9.i	Wadloes Path	Shared	3m	Remove existing white painted line down the middle of the	N/A
	Through Ditton	surface path		path and transform to shared surface path. Selective path	
	Meadows			widening along Wadloes Path (approximately 2/3 of length	
				specified) towards Fen Ditton, requiring careful pruning of	
				existing landscape and areas of 'tree tunnel' along path stretch.	
				One bollard required to signal the greenway route. Solar studs	
				required to signal the greenway route.	
Ho.9.ii	Wadloes Path	Junction	n/a	Selective path widening, new signage and landscaping	44,188
	'Bow-Tie'			improvements around multiple converging routes. Careful	
				pruning and crown lifting in key locations is required to ensure	
				a clear route along the paths. Decluttering and bins to be	
				relocated to a better location. New planting and bench on the	
				western green with new sleeper steps, references the history	
				of the site as a crossing on railway line to Mildenhall, on the	
				east - but also forms a peaceful seating area. Two new trees to	
				the eastern green enhance the landscape. Two short sections of	
				new shared-use path on existing desire lines, linking up Ditton	
				Lane to Howard Road, and the Horningsea Greenway with the	
				Bottisham Greenway routes. Six bollards required to signal the	
				greenway route. Solar studs required to signal the greenway	
				route.	

BOTTISHAM COSTING

Fulkers' Constuction Cost Estimate - August 2019

Construction Cost only - excludes Professional Fees, Contingency or Risk Allowances, VAT and Inflation.

Ref.	Name.	Route Type:	Path	Works	Cost (£)
Bo.1.i	Lode Road	Quiet road	n/a	_	7,000
		width			
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5 4 "	D (() 1) (())		,		404040
Bo.1.ii			n/a		164,813
	Lode Road Quiet road N/a Quiet road treatment to Lode Road from Bottisham Village College to the village green. Speed reduced to 20mph, white painted cycle markings on carriageway surface with Bottisham Greenway bollard marking the start of the greenway route. Bottisham Village Green Shared surface zone N/a Lode Road alongside Village Green and village shops to be made one way to vehicular traffic traveling south-east on a large-scale raised table. This upgraded path is a coloured shared surface giving priority to pedestrians and cyclists over vehicles. A new village sign and seating is positioned outside of the post office. Three new trees and additional landscaping works are required to slightly alter the Village Green geometry and indicate the centre of the village. Four greenway bollards indicate the walking and cycling routes, alongside signage for 'no entry' and 'one way' signals. Paking area is indicated via hatched area in drawing for approximately 5-6 bays for deliverys and disabled parking. Remaining vehicles are to travel around the village green via Trunbridge Lane. High Street junction with Bell Road Junction N/a Tightened corner geometry to Bell Road with raised table to give priority to pedestrians, slow vehicular traffic and allow for better quality public realm outside of The Bell pub. Cycles travel along shared surface and join carriageway along Bell Road. One bollard required to indicate turning point at Bell Road Junction. Quiet road N/a Quiet road / with Shared Shared Surface Shared surface path path Shared Surface Shared surface path path Shared Shared surface path path Shared Shared surface path edge to allow cycles to join the shared surface path. Two bollards on either side of the carriageway required to signal greenway route. Shared Surface Path Two bollards on either side of the carriageway required to signal greenway route. Shared Surface Path alongside Bell Road, 3m wide with minimum 0.5m grassy strip separating path with farmland. Existing pavement to be replaced w				
		zone			
				cycling routes, alongside signage for 'no entry' and 'one	
				way' signals. Paking area is indicated via hatched area	
				disabled parking. Remaining vehicles are to travel around	
				the village green via Trunbridge Lane.	
Bo.2	High Street	Junction	n/a	Tightened corner geometry to Bell Road with raised	29,281
	junction with Bell			table to give priority to pedestrians, slow vehicular traffic	
	Road			and allow for better quality public realm outside of The	
				Bell pub. Cycles travel along shared surface and join	
				carriageway along Bell Road. One bollard required to	
				indicate turning point at Bell Road Junction.	
Bo.3.i	Bell Road	Quiet road	n/a	Quiet road treatment to Lode Road from High Street	5,938
				junction with Bell Road. White painted cycle markings on	
				carriageway surface, speed reduced to 20mph at field	
				edge south of Wisbeach Close.	
Bo.3.ii	Bell Road junction	Quiet road /	n/a	Small raised table (approx 6m x 4m) at shared surface	10,200
	with Shared	Shared surface		path edge to allow cycles to join the shared surface path.	
	Surface Path	path		Two bollards on either side of the carriageway required to	
				signal greenway route.	
Bo.3.iii	Shared Surface	Shared surface	3m	Shared surface path alongside Bell Road, 3m wide	206,375
	Path Parallel to	path		with minimum 0.5m grassy strip separating path with	
	Bell Road			farmland. Existing pavement to be replaced with planted	
				edge, with between 8-10 new trees. Short section in front	
				of pumping/sub-station route utilises existing footway	
				widened to full width available between fence and kerb.	
				Solar studs required to signal the greenway route. Land	
				acquisition may be required, subject to landholders	
				agreement.	

Bo.3.iv	Bell Road junction	Junction	n/a	Shared surface path alongside Bell Road cuts through	28,125
	with Newmarket			trees and landscaping to the west of Bell Road to join	
	Road, A1303			with existing shared surface path along Newmarket Road.	
				Tightened junction geometry required to allow for safer	
				crossing over Bell Road, with new central refuge. White	
				painted give way signs required minimum 10m away	
				from junction for vehicles to give way to pedestrians	
				and cyclists travelling east-west. Planting widened to	
				accommodate change in geometry. One bollard required	
				to signal greenway route. Solar studs required to signal	
				the greenway route. Land acquisition required as per	
				Bo.3.iii, subject to landholders agreement.	
Bo.4.i	Newmarket Road,	Shared surface	3m	Widen existing 2m wide path to 3m to the south, allowing	200,000
	A1303 from Bell	path		sufficient remaining verge. In areas where trees restrict	
	Road to outer			widening, path should be widened to the maximum	
	Stow-Cum-Quy			possible on the northern grassy edge. Solar studs	
				required to signal the greenway route.	
Bo.4.ii	Newmarket Road,	Shared surface	3m	Widen existing 2m wide path to 3m to the south, allowing	78,125
	A1303 from outer	path		sufficient remaining verge. Where the path crosses over	
	Stow-Cum-Quy			private entrances, a coloured surface and white painted	
	to Albert Road			give way lines (where appropriate) are required to give	
	Junction			priority to cyclists and pedestrians. Solar studs required to	
				signal the greenway route.	
Bo.5	Albert Road	Junction	n/a	Changes to existing junction geometry required to	156,125
	junction with			allow for safer crossing over Albert Road. Albert Road	
	Newmarket Road,			carriageway curves more to the west to allow the	
	A1303			carriageway to meet Newmarket Road at a 90' angle.	
				Shared surface path has ample space to approach the	
				Albert Road crossing point at 90' angle for improved	
				visibility and a smoother transition. A new central refuge	
				4m wide allows for safe interim crossing. White painted	
				give way markings on carriageway set back from junction	
				for vehicles to give way to pedestrians and cyclists	
				travelling east-west, and slow down vehicular traffic	
				exiting or joining Newmarket Road. Planting widened	
				alongside The Missing Sock pub provides an improved	
				entrance, and accommodates this change in junction	
				geometry. Two bollards required to signal greenway route.	
				Solar studs required to signal the greenway route. Land	
				acquisition required, subject to landholders agreement.	

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Bo.6.i	Newmarket Road,	Shared surface	3m	Widen existing 2m wide path to 3m to the south, allowing	159,375
	A1303 from Albert	path		sufficient remaining verge. Where the path crosses over	
	Road Junction to			private entrances, a coloured surface and white painted	
	Stow-Cum-Quy			give way lines (where appropriate) are required to give	
	main village			priority to cyclists and pedestrians. The layby may be	
				closed and replaced with a planted verge, to prevent	
				doors opening onto the shared surface path. Solar studs	
				required to signal the greenway route.	
Bo.6.ii	Newmarket Road	Shared surface	3m	Widen existing 2m wide path to 3m to the south, allowing	87,500
	within Stow-Cum-	path		sufficient remaining verge. Where the path crosses over	
	Quy, A1303			private entrances, a coloured surface and white painted	
				give way lines (where appropriate) are required to give	
				priority to cyclists and pedestrians. Laybys may be	
				closed where appropriate to prevent doors opening onto	
				the shared surface path. Where laybys are required, a	
				sufficient hatched or planted width must be provided for	
				safe exit and entrance to vehicles occupying the space.	
				Existing bus stop is adjusted to form a floating bus	
				island to allow for safe exit and entrance to buses along	
				Newmarket Road.	
Bo.7	Church Road	Crossing	3m	Improvements to the Church Road crossing approach	5,875
	Crossing			to make a smoother transition to the 90' angle crossing	
				point. Shared surface path over informal car parking	
				entrance is to be coloured with white painted markings to	
				indicate cycle and pedestrian priority over vehicles. Path	
				around field edge (Bo.8.i) joins private road to access	
				crossing point. Two bollards required to signal greenway	
				route.	
Bo.8.i	Path Along Field	Shared surface	3m	New shared surface path along field edge, 3m wide	65,563
	Edge	path		with minimum 0.5m grassy edge separating path from	
				farmland and boundary fences. Where the path along	
				the field edge converges with the Swaffham Greenway	
				route (see Sw.19.i) two bollards are required to signal the	
				Bottisham Greenway route. Solar studs required to signal	
				the greenway route. Land acquisition required, subject to	
				landholders agreement.	
Bo.8.ii	Path Through	Shared surface	3m	New shared surface path through farmland, 3m wide	N/A
(as seen in	Farmland	path		with minimum 1m grassy strip on either side to allow	(Includ-
Sw.19)				for hedgerow and tree planting along path length. Land	ed in
				acquisition required, subject to landholders agreement.	Sw.19)
				Solar studs required to signal the greenway route. Land	
				acquisition required, subject to landholders agreement.	
Bo.9.i	Northern Approach	Shared surface	n/a	New shared surface path through farmland crosses road	27,188
	to A14 Underpass,	path		to Quy Hotel using coloured raised table. White painted	
	Junction with			give way markings on carriageway surface indicates	
	Road to Quy Hotel			priority to cycles and pedestrians crossing the road. Two	
				greenway bollards required to signal the greenway route.	
Bo.9.ii	A14 Underpass	Underpass	n/a	New lighting to existing underpass to improve safety	12,125
			~	and visibility. Two greenway bollards to either side of the	, .20
				underpass to prevent motorised vehicles from entering	
				TUDOEDDASS TO DIEVEDI MOMBISED VERMIES MAIN EMERICA	

Bo.9.iii	Southern	Quiet Road	n/a	Adjusted geometry to underpass approach to improve	15,938
D0.5.III	Approach to A14	Quiet read	11/4	visibility and form a smoother angle of approach to the	10,000
	Underpass along			underpass entrance. Works to existing landscape and	
	Road to A14			trees according to the new alignment, new landscaping	
	Underpass			and tree planting required along the eastern edge to	
	Ondorpado			clarify angle of approach to the underpass, and prevent	
				car parking at the end of the road. Land acquisition	
				required, subject to landholders agreement.	
Bo.10	Road to A14	Oviet Bood	200		C 07F
B0.10		Quiet Road	3m	Minor maintenance required to even out road surface.	6,875
	Underpass		aver-	Subject to landholders agreement.	
	5		age		
Bo.11	Road to A14	Junction	n/a	Tightened corner geometry to the road to A14 underpass	13,438
	Underpass			gives priority to cycles and pedestrians over vehicles.	
	Junction with			A steep dropped kerb reduces the vehicle speeds to	
	Newmarket Road,			a minimum, so as to improve the safety of cycles and	
	A1303			pedestrians. Shared surface path is widened to 3m,	
				allowing for a minimum 0.7m verge separating path from	
				busy road. At the edge of the path where turning onto	
				the road, the verge increases in size to clearly indicate a	
				turning point to the shared surface path. Existing footpath	
				remains. Two bollards required on either side of the	
				junction approaches to signal the greenway route. Solar	
				studs required to signal the greenway route.	
Bo.12.i	Newmarket Road,	Shared surface	3m	Shared surface path along Newmarket Road widened	10,000
	A1303 from Road	path		from 2m to 2.5m with grassy verge separating path from	
	to A14 Underpass			carriageway. Solar studs required to signal the greenway	
	to East Bridge			route.	
	over Quy Water				
Bo.12.ii	Newmarket Road	Bridge	3m	Shared surface path crosses Quy Water over existing	76,188
	East Bridge over			bridge. Bridge path widening from 2m to 3m to take place	
	Quy Water			through the removal of the existing crash barriers (65m	
				long). Crash barriers are to be replaced with new planted	
				verge 1m wide, bounded by a high-profile safety kerb.	
				Carriageway width reduced to 6.5m, and vehicles are	
				encouraged to slow speed from 50mph to 30mph. Solar	
				studs required to signal the greenway route.	
Bo.12.iii	Newmarket Road,	Shared surface	3m	Shared surface path along Newmarket Road widened	30,000
	A1303 from East	path		from 2m to 3m with grassy verge separating path from	55,000
	to West Bridge	Paul		carriageway. Solar studs required to signal the greenway	
	over Quy Water			route.	
Bo.12.iv	Newmarket Road	Pridge	2m		10 562
DU. 12.1V		Bridge	3m	Shared surface path crosses Quy Water over existing	19,563
	West Bridge over			bridge. Bridge path widening to take place through the	
	Quy Water			removal of the existing wide kerb edge (10m long). Kerb	
				edge to be replaced with new planted verge 1m wide,	
				bounded by high-profile safety kerb. Carriageway width	
				reduced to 6.5m - localised relining. Solar studs required	
				to signal the greenway route.	

Bo.12.v	Newmarket Road,	Shared surface	3m	Shared surface path along Newmarket Road widened	70,000
50.12.1	A1303 from	path		from 2m to 3m, maintaining existing grassy verge	70,000
	West Bridge over	patir		separating path from carriageway. New tree planting	
	Quy Water to			required where adjustments to match proposals for High	
	High Ditch Road			Ditch Road, Newmarket Road Junction crossing - see	
	Junction			more information on Bo.13.i). Solar studs required to	
			,	signal the greenway route.	
Bo.13	High Ditch Road	Junction /	n/a	Changes to existing junction geometry required to allow	180,813
	Junction with	Crossing		for safer crossing over High Ditch Road. High Ditch	
	Newmarket Road,			Road carriageway curves more to the west to allow the	
	A1303			carriageway to meet Newmarket Road at a 90' angle.	
				Shared surface path has ample space to approach the	
				High Ditch Road crossing point at 90' angle for improved	
				visibility and directness. A new central refuge 5m wide	
				allows for safe interim crossing. White painted give	
				way markings on carriageway set back from junction	
				for vehicles to give way to pedestrians and cyclists	
				travelling east-west, and slow down vehicular traffic	
				exiting or joining Newmarket Road. Adjustments to the	
				existing landscaping to allow for more direct shared	
				surface path, and landscaping required to replace the	
				existing shared surface path. New tree planting long the	
				edge of the shared surface path and a large area of low	
				planting required to the north of the east side of the path	
				to highlight the change in geometry for vehicles traveling	
				southbound towards Newmarket Road. Two bollards	
				required to signal greenway route. Solar studs required to	
D 44				signal the greenway route.	044.050
Bo.14	Newmarket Road,	Shared surface	3m	Widen existing 2m wide path to 3m, allowing for sufficient	211,250
	A1303 from High	path		remaining verge of minimum 0.5m wide. Where the path	
	Ditch Road to			crosses over private entrances, a coloured surface and	
	Roundabout			white painted give way lines (where appropriate) are	
				required to give priority to cyclists and pedestrians over	
				vehicles. Changes to the geometry of existing private	
				entrance and exit to the Darwin Farm Shop and Nurseries	
				are required to slow vehicular speeds, and allow for	
				safer cycle and pedestrian crossing. Laybys may be	
				closed where appropriate to prevent doors opening onto	
				the shared surface path. Where laybys are required, a	
				sufficient hatched or planted width must be provided for	
				safe exit and entrance to vehicles occupying the space.	
				Existing bus stop is adjusted to form a floating bus	
				island to allow for safe exit and entrance to buses along	
				Newmarket Road. Solar studs required to signal the	

Bo.15.i.A.i	Nowmarket Bood	lunction of	2m	Widen existing 2m wide noth to 2m wide New noth	112 125
B0.15.I.A.I	Newmarket Road	Junction of	3m	Widen existing 2m wide path to 3m wide. New path	113,125
	Roundabout	Paths / Path		through farmland 3m wide towards the eastern edge	
	- Option A -	through field		of the Wing Development Site. Allow for grassy verge	
	Through Field	towards Wing		0.5m minimum either side of path to separate path from	
	towards Wing	Development		surrounding farmland. Two bollards to be provided along	
	Development			the north and south edges of the path to signal the	
				greenway route. Two new trees line the start of the turning	
				point at the Newmarket Road roundabout. White painted	
				markings on path surface to indicate which routes give	
				way to the other. Landscaped 'triangle' in the centre of the	
				paths is adjusted to allow easier turning for cycles joining	
				the greenway. An additional bollard is required at the	
				base of the 'triangular' landscaped section to indicate the	
				Bottisham Greenway route. Solar studs required to signal	
				the greenway route. Land acquisition required, subject to	
				landholders agreement.	
Bo.15.i.A.ii	Path Through the	Shared surface	3m	New shared surface path, through Wing Development	N/A
	Wing Development	path	mini-	site, east side. Path continues along the 'dedicated	
	Site, East		mum	cycleway' past 'The Plains' sports pitches towards	
				the edge of the 'adventure play' woodland area. Solar	
				studs required to signal the greenway route. Subject to	
				landholder agreement.	
Bo.15.i.B.i	Newmarket Road	Junction	3m	Widen existing 2m wide path to 3m wide. Maintain	123,250
	Roundabout -	of Paths /		existing grassy verge to separate path from carriageway.	,
	Option B - Along	Path along		Two bollards to be provided along the east and west	
	Newmarket	Newmarket		edges of the path to signal the greenway route.	
	Road to Wing	Road to		Landscaped 'triangle' in the centre of the paths is adjusted	
	Construction	Newmarket		to allow easier turning for cycles joining the greenway. An	
	Access Road	Park and Ride		additional bollard is required at the base of the 'triangular'	
	7.00000 7.000	T am and mas		landscaped section to indicate the Bottisham Greenway	
				route. Widen existing 2m wide path to 3m wide along	
				Newmarket Road. Solar studs required to signal the	
				greenway route. Subject to landholder agreement.	
Bo.15.i.B.ii	Wing Construction	Shared surface	3m	New shared surface path, around Wing Development	N/A
DO. 13.1.D.11	Access Road		mini-	site parallel to existing construction access road. Path	IN/A
	Access Road	path			
			mum	continues along the 'designated cycleway' and towards	
				the edge of the 'adventure play' woodland area. Solar	
				studs required to signal the greenway route. Subject to	
			_	landholder agreement.	
Bo.15.ii	Path Through	Shared surface	3m	New shared surface path, along the 'designated	N/A
	the Wing	path	mini-	cycleway', through 'Gregory Park' to the edge of the	
	Development Site		mum	dismantled railway, as seen in the Wing Development	
				planning proposals. Two bollards required to signal	
				the greenway route. Solar studs required to signal the	
				greenway route. Subject to landholder agreement.	
Bo.16	Path Along	Shared surface	3m	New shared surface path along the Mildenhall dismantled	N/A
	Dismantled	path		railway line, 3m wide. Path consdiered a 'dedicated	
	Railway			cycleway' as seen in the Wing Development planning	
				proposals. Solar studs required to signal the greenway	
				route. Subject to landholder agreements.	

Bo.17.A.i	Path Along	Shared surface	3m	Path along Mildenhall dismantled railway line, curving	6,688
	Dismantled	path		towards the junction of Fison Road and Ditton Lane.	
	Railway Towards			At junction with Ditton Lane shared surface path,	
	Fison Road			landscape adjustments required to provide sufficient	
				turning space for cycles travelling towards Bottisham.	
				Two bollards required to signal the greenway route. Solar	
				studs required to signal the greenway route. Subject to	
				landholders agreement.	
Bo.17.A.ii	Copenhagen	Crossing /	3m	Copenhagen-style crossing to the junction of Fison	40,813
	Crossing to Fison	Shared surface		Road and Ditton Lane with an improved shared-use	
	Road	path		link via a continuous foot/cycleway across the entrance	
				of Fison Road (6m x 6m). A steep dropped kerb and	
				tightened junction geometry reduces the vehicle speeds	
				to a minimum, so as to improve the safety of cycles and	
				pedestrians. White painted give way markings on road	
				surface indicate priority over junction. Shared surface	
				path is widened to 5m - 6m, allowing for a minimum 0.7m	
				verge separating path from busy road. Improvements	
				to the existing signalised crossing over Ditton Lane	
				is required to widen the crossing and create a toucan	
				crossing for cyclists traveling along the Bottisham	
				Greenway. Adjustments to existing landscaping required	
				to accommodate expanded path width.	
Bo.17.B.i	Path Along	Shared surface	3m	Path along Mildenhall dismantled railway line, curving	6,688
	Dismantled	path		towards the raised table at the junction of Fison Road and	
	Railway Towards			Ditton Lane. At junction with Ditton Lane shared surface	
	Fison Road			path, shared sruface path adjustments are required	
				to provide sufficient turning space for cycles travelling	
				north on Ditton Lane. Solar studs required to signal the	
				greenway route. Subject to landholders agreement.	
Bo.17.B.ii	Raised Table to	Crossing /	4m	Using the existing raised table on Fison Road, a new	58,250
	Fison Road	Shared surface		shared-use link 4m wide via a raised table with priority	
		path		over Fison Road improves the safety of cycles and	
				pedestrians. White painted give way markings on road	
				surface indicate priority over junction. Adjustments to	
				the existing landscape surrounding private residences	
				is required to form a new path alignment. An electrical	
				box and a lighting colomn needs moving to a new	
				landscaped area at the southern corner of the Fison	
				Road, Ditton Lane junction. Improvements to the existing	
				signalised crossing over Ditton Lane is required to widen	
				the crossing and create a toucan crossing for cyclists	
1	I	1	1	traveling along the Bottisham Greenway.	T. Control of the Con

Bo.17.C.i	Ramp to Ditton	Shared surface	4.5m	New wide underpass beneath Ditton Lane and approach	72,188
	Lane Underpass	path		ramps utilises the existing slight elevation of the road level	
				(1.5m) above lowest ground level along the dismantled	
				railway. Two-stage ramp of 40-45m length forms a 1:20	
				ramp to allow for 3.5m depth between the road surface	
				and the underpass finished floor level. Works required	
				for ground excavation, and embankment construction,	
				alongside works to the existing landscaping. Additional	
				ramp up to Fison Road 25-30m long allows pedestrians	
				and cyclists to continue along Ditton Lane. Solar studs	
l				required to signal the greenway route. Land acquisition	
l				required, subject to landholder agreements, and further	
l				technical studies are required.	
Bo.17.C.ii	Ditton Lane	Underpass	4.5m	New cut and cover or box-jacked underpass to Ditton	257,563
l	Underpass			Lane, 4.5m wide, 15m long. Accounted for structural	
				depth between road surface and underpass finished	
				ceiling level is 0.9m, allowing underpass ceiling to floor	
				level to be 2.6m. New lighting, new landscaping, new	
				signage. Subject to landholders agreement and further	
				technical studies are required.	
Bo.17.C.iii	Ramp from Ditton	Shared surface	4.5m	New wide underpass beneath Ditton Lane and approach	44,688
	Lane Underpass	path		ramps utilises the existing slight elevation of the road level	
				(1.5m) above lowest ground level along the dismantled	
				railway. Two-stage ramp of 40-45m length forms a 1:20	
				ramp to allow for 3.5m depth between the road surface	
				and the underpass finished floor level. Works required	
				for ground excavation, and embankment construction,	
				alongside works to the existing landscaping. Additional	
				ramps required to re-align existing paths running parallel	
				to Ditton Lane with lowered underpass path level and	
				location. Solar studs required to signal the greenway	
				route. Land acquisition required, subject to landholder	
				agreements, and further technical studies are required to	
				confirm feasibility of this approach.	
Bo.18	Path from Ditton	Shared surface	4m	Recently widened and improved shared surface path	N/A
	Lane Crossing	path		along Paddock edge. No works required to path.	
	/ Underpass to				
	Wadloes Path				
ı	'Bow Tie' (see				
	Ho.9.ii)				
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SWAFFHAM COSTING

Fulkers' Constuction Cost Estimate - August 2019

Construction Cost only - excludes Professional Fees, Contingency or Risk Allowances, VAT and Inflation.

Ref.	Name.	Route Type:	Path width	Works	Cost (£)
Sw.1	Swaffham Prior High Street	Quiet road	n/a	Quiet road treatment to High Street from Swaffham Prior Village Hall to the sliproad junction. Speed reduced to 20mph, white painted cycle markings on carriageway surface. One Swaffham Greenway bollard marking the start of the greenway route.	10,125
Sw.2.i	Swaffham Prior High Street Junction with B1102 Sliproad	Junction	n/a	Remove existing cycle lane infrastructure at junction of High Street and B1102 sliproad on each side of the carriageway, works to existing landscaping where necessary. Closure of sliproad to vehicular traffic, allowing for two way segregated cycle path in place of the existing carriageway, with pedestrian path remaining as is. New give way markings at newly formed 'T' junction'. Extend carriageway at junction with B1102 to allow vehicles to run left (in lieu of slip road) with corresponding changes to signage. Village sign and speed limit sign required for vehicles existing the B1102 and entering Swaffham Prior Village. Greenway bollard marks the closure to vehicular traffic of the former sliproad and signals the greenway route, white painted cycle markings highlight presence of cycles at junction and reinforce route.	54,313
Sw.2.ii	B1102 Sliproad	Segregated cycle path	4m	Closure of sliproad to vehicular traffic, allowing for two way segregated cycle path, 2 x 2m cycle lanes in place of the existing carriageway, with pedestrian path remaining as is. New planting (generally 1m wide) to reduce the width of the total carriagway to 4m and enhance existing green landscape. Solar studs required to signal the greenway route.	20,000
Sw.2.iii	B1102 Sliproad Junction with Shared Surface Path along B1102	Junction	n/a	Closure of sliproad to vehicular traffic requires a clearly defined planted area, with a reinforced kerbstone to prevent traffic mounting the green verge. New trees and low level planting to ensure clarity of closure. Two way segregated cycle track (on former sliproad) merges with shared surface path. Tactile paving indicate to both cyclists and pedestrians of the change in path use.	9,000

Sw.3.i	B1102 from Swaffham	Shared	3m	Extend existing shared surface path to 3m,	96,000
	Prior to Abbey Lane	surface path		maintaining an existing strip of verge, 1m wide.	
				Allow for grassy verge 0.5m wide minimum to	
				separate farmland from carriageway. Subject to	
				landholder agreement. Solar studs required to	
				signal the greenway route.	
Sw.3.ii	B1102 Junction with	Junction	n/a	As Abbey Lane is a low trafficked road, a	9,975
	Abbey Lane			continuous footway and tightened corner	
				geometry gives priority to cycles and pedestrians	
				over vehicles. A steep dropped kerb reduces the	
				vehicle speeds to a minimum, so as to improve	
				the safety of cycles and pedestrians. White	
				painted give way markings on carriageway	
				surface enforce shared path priority. Subject to	
				landholder agreement.	
Sw.3.iii	B1102 from Abbey Lane to	Shared	3m	Extend existing shared surface path to 3m with	70,125
	Commercial End	surface path		1m minimum verge separating shared surface	
				path from carriageway. Solar studs required to	
				signal the greenway route. Subject to landholder	
				agreement.	
Sw.4	Along Field Edge Parallel	Shared	n/a	New shared surface path, 3m wide with 0.5m	45,000
	to Commercial End	surface path		minimum grassy strip either side of path,	
				connects to existing shared surface path along	
				B1102. Path positioned behind field hedge,	
				running parallel to Commercial End, connecting	
				via a newly formed gap in the hedge, to	
				Commercial end opposite the existing footpath.	
				Solar studs required to signal the greenway	
				route. Land acquisition required, subject to	
				landholders agreement.	
Sw.5.i	Commercial End Junction	Junction	n/a	At the junction of Commercial End with the	11,938
	with Public Footpath (on			current public footpath, a raised table is required	
	Private Land)			to allow cycles to safely cross Commercial	
				End from one side to the other. Raised table	
				aligned with nw shared surface path, at 90' to	
				the cariageway. Removal of kissing gate, and	
				introduction of two bollards in the centre of	
				the each side of the new shared surface path	
				(3m wide), to dissuade vehiclular users from	
				accessing the path. Works to existing landscape	
				required. Land acquisition required, subject to	
				landholders agreement.	

Sw.5.ii	Shared surface path (on	Shared	3m	New shared surface path, 3m wide along the	36,000
	Private Land)	surface path		existing grassy public footpath alignment. Solar	
				studs required to signal the greenway route.	
				Subject to landholder agreement.	
Sw.5.iii	Shared surface path (on	Shared	3m	Greenway route runs along existing private	4,563
	Private Land)	surface path		driveway (which is a public footpath). No works	
				required to driveway surface. A small extension	
				to the current driveway surface of approximately	
				15m2 required to allow a continuous surface	
				at entrance gateway. Existing kissing gate at	
				entrance to be removed and replaced with a	
				centrally placed greenway bollard precenting	
				vehicles accessing the greenway route. Solar	
				studs required to signal the greenway route.	
				Subject to landholder agreement.	
6w.6	Shared surface path	Junction	n/a	New coloured surface from gateway to 10m	11,313
	Junction with Private			within the recreation ground to clarify priority over	
	Driveway and Swaffham			private entrances. White painted cycle and give	
	Bulbeck Recreation			way markings on carriageway surface reinforce	
	Ground			priorities. A planted verge between the shared	
				surface path and driveway entrances separate	
				the path from vehicular trafficked areas, and	
				dissuades parking over the shared use path.	
				One greenway bollard required to signal the	
				greenway route through Swaffham Bulbeck	
				recreation ground. Solar studs required to signal	
				the greenway route. Subject to landholder	
				agreement.	
Sw.7	Around Swaffham Bulbeck	Shared	3m	Extend existing pedestrian path around	116,375
	Recreation Ground	surface path		recreation ground from 1m to 3m wide, with	
				1m minimum planted verge. May require small	
				amount of land excavation to create a level	
				path, due to raised level of recreation ground.	
				Five lighting colomns to be relocated to verge,	
				alongside two telegraph poles, and three road	
				signs.	
8.w.8	Swaffham Recreation	Junction	n/a	At the informal parking entrance, the path surface	14,938
	Ground Car Park Junction			changes to a coloured surface. Tightened	
	with Shared Surface Path			junction geometry slows traffic speed and a	
				new raised table to the car parking entrance	
				with white painted cycle markings on the path	
				surface reinforce priorities. A planted verge along	
				the shared surface path follows the tightened	
				geometry, leaving a minimum width for vehicles	
				to access the car park entrance. A planted verge	
				along the shared surface path separates the path	
				from vehicular traffic. One bollard required to	
	T. Control of the con	I	1		1

Sw.9.i	B1102 from Swaffham	Shared	3m	Widen existing path from 2m to 3m with a planted	69,563
	Bulbeck Recreation	surface path		verge of minimum 0.5m separating path from	
	Ground to Gutter Bridge			carriageway. Solar studs required to signal	
	Ditch			the greenway route. Approximately 1m land	
				acquisition required along length of path, subject	
				to landholders agreement.	
Sw.9.ii	B1102 Gutter Bridge Ditch	Shared	3m	Shared surface path extended to 2.5m wide for	28,500
		surface path /		length of bridge over Gutter Bridge Ditch (approx.	
		Bridge		20m). Carriageway speed reduction from 60mph	
				to 50mph. Existing crash barrier (approx. 60m	
				long) moved closer to the southern edge of the	
				verge to allow for more generous width.	
Sw.9.iii	B1102 from Gutter Bridge	Shared	3m	Widen existing path from 2m to 3m with a	39,313
	Ditch to White Droveway	surface path		planted verge of minimum 0.5m separating	
				path from carriageway. Approximately 1m land	
				acquisition required along length of path, subject	
				to landholders agreement.	
Sw.9.iv	B1102 Junction with White	Junction	n/a	Changes to existing junction geometry required	70,500
	Droveway			to allow for safer crossing over White Droveway.	
				Reformed as single 'T'-junction with ped/cycle	
				path gently curving back away from the junction	
				to meet a priorty crossing over the side road with	
				white painted give way markings set back from	
				junction. Planting widened to accommodates	
				this change in junction geometry. Two bollards	
				required to signal greenway route. Possible	
				land acquisition required, subject to landholders	
				agreement.	
Sw.9.v	B1102 from White	Shared	3m	Widen existing path from 2m to 3m with a planted	120,063
	Droveway to	surface path		verge of minimum 0.5m separating path from	
	Longmeadow			carriageway. Solar studs required to signal	
				the greenway route. Approximately 1m land	
				acquisition required along length of path, to allow	
				for grassy verge between path and farmland.	
				Subject to landholders agreement.	
Sw.10	B1102 Junction with	Junction	n/a	Changes to existing junction geometry required	100,750
	Longmeadow			to allow for safer crossing over Longmeadow.	
				Longmeadow carriageway curves around to	
				the east to allow for more space at Sun and	
				Gate House, 1 Longmeadow, avoiding existing	
				telecommunications poles. Shared surface	
				path has ample space to smoothly approach	
				the Longmeadow crossing point at 90' angle	
				for improved visibility. A new raised table	
				alongside white painted give way signs allow	
				clear priority of pedestrians and cyclists over	
				vehicles, and alows vehicles down joining or	
				existing the B1102. Planting widened alongside	
				Sun and Gate House provides an improved	
				pedesitran and cycle route off the greenway and	
				accommodates this change in junction geometry.	
				Two bollards required to signal greenway route.	
				Land acquisition required along the eastern plot,	
				subject to landholders agreement.	

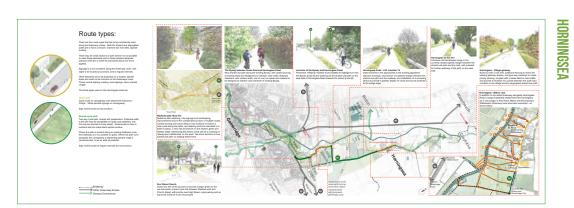
Sw.11.i	B1102 from Longmeadow	Shared	3m	Widen existing path from 2m to 3m with a planted	13,813
2	to Heynes J J and Sons Industrial Site	surface path	Sili	verge of minimum 0.5m separating path from carriageway, and allowing for a small planted verge between private property and shared surface path. Solar studs required to signal the	13,310
				greenway route.	
Sw.11.ii	Heynes J J and Sons Industrial Site Private Entrance	Shared surface path	3m	New coloured surface over private entrance boundary to 3m within the each side of the shared surface path surface to clarify priority over private entrances to pedestrians and cyclists. White painted cycle markings on carriageway surface to reinforce priorities. Solar studs	4,063
				required to signal the greenway route.	
Sw.11.iii	From Heynes J J and Sons Industrial Site to Lode Village	Shared surface path	3m	Widen existing path from 2m to 3m to the north, maintaining the existing planted verge of minimum 0.5m separating path from carriageway, and allowing for a small planted verge between farmland and shared surface path. Solar studs required to signal the greenway route. Possible land acquisition required, subject to landholders agreement.	176,375
Sw.11.iv	Lode Village, East	Shared surface path	3m	Widen existing path from 2m to 2.5 - 3m to the north, with a new verge of minimum 0.5m separating path from carriageway, allowing for a small remaining verge between private property and shared surface path. Where the path crosses over private entrances, a coloured surface and white painted give way lines (where appropriate) are required to give priority to cyclists and pedestrians. Speed reduction sign needs relocating.	20,550
Sw.12.i	Lode Road Junction with Swaffham Road and Quy Road	Junction	n/a	Wholesale junction reconfigured to reduce vehicle speeds through Lode Village by tightening all corner geometries to improve the safety for pedestrians and cyclists. A widened shared surface path curves around existing alignment, and along existing driveway to Lode Road. A new raised table, 6m wide set back from junction, provides a safe uncontrolled crossing over Lode Road. White painted cycle markings on carriageway surface to reinforce priorities. A new section of shared surface path cuts across the corner of farmland to provide a wide planted area with new trees marking the entrance to Lode Village. Each green area is landscaped with new trees and new planting to celebrate the village green. Four greenway bollards required to signal the Swaffham greenway route. Land acquisition required, subject to landholders agreement. Allowance for locally-led public realm improvements around village sign.	167,375 (163,000 required cost, 4,375 optional additional cost)

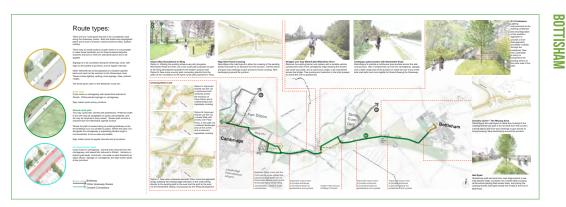
Sw.12.ii	Quy Road	Shared surface path	3m	Widen existing shared surface path from 2m to 3m with a 1m minimum verge separating the path from the carriageway. Remove layby along Quy Road and allow path to continue unobstructed to Anglesey Abbey. May require repositioning of hedge along Anglesey Abbey land slightly north to allow for appropriate width. Solar studs required to signal the greenway route. Land acquisition required, subject to landholders agreement.	54,875
Sw.13	Quy Road Crossing at Anglesey Abbey	Shared surface path / Crossing	n/a	Crossing aligned to entrance of Anglesey Abbey. Widen existing central refuge to 3m x 4m wide. Adjustments to road geometry required to increase width of road from 8m to 9m, to allow for 3m wide road width either side of 3m wide island. Use additional width to introduce right-turn filter lane into Anglesey Abbey. On north side, path to be removed on west side of crossing, and entrance to Anglesey Abbey to be improved with a widened entrance for cyclists. On south side of crossing, realignment and extension required to for a 90' angle to existing path through woodland to follow alignment of felled tree. Landscaping adjustments required. Two greenway bollards required to signal the greenway route. Subject to landholders agreement.	54,500
Sw.14.i	Lode to Stow-Cum-Quy Existing Shared Surface Path	Shared surface path	3m	No works to existing path. Pollarded trees such as Salix Alba Chermesina along the south side of the path can be combined with companion trees and wild planting to shield and protect the shared cycle path users and wildlife.	11,625
Sw.14.ii	Lode to Stow-Cum-Quy Existing Shared Surface Path	Shared surface path	3m	No works to existing path surface. New planting and landscaping works required to existing verge separating path from carriageway.	3,500
Sw.14.iii	Lode to Stow-Cum-Quy Existing Shared Surface Path	Shared surface path	3m	No works to existing path. Pollarded trees such as Salix Alba Chermesina along the south side of the path can be combined with companion trees and wild planting to shield and protect the shared cycle path users and wildlife.	8,250

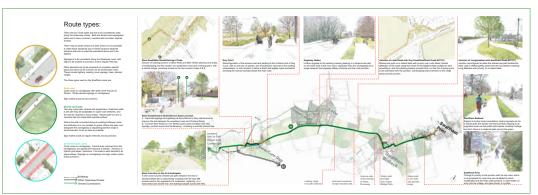
Sw.15.ii	Lode to Stow-Cum-Quy Existing Path Junction with Quy Court	Junction Quiet Road	n/a	Reconfiguration of the access road, adjustments to the geometry and parking relocation at the northern end of Quy Court, to allow continual and clear shared surface path through Quy Court. Removal of the existing unnecessary 'in only' access to be replaced with new planting and landscaping adjustments with a continual wrap around pedestrian footpath to allow a direct and legible cycle connection through and around Quy Court. Adjustments to existing path to Lode required to join with proposed changes to Quy Court junction, with a new section of pedestrian footway to wrap around east side of path to allow clear pedestrian route to recreation ground. Pedestrian footpaths to join with shared surface path, north of landscaped area, with priority to shared surface path users. White painted cycle markings at junction to indicate cycles should look two ways before joining quiet road. Six new trees to the north of the junction required. One bollard required at northern end to signal the greenway route. Solar studs required to signal the greenway route. Subject to landholders agreement. White painted cycle markings along Quy Court to indicate priority to cyclists over vehicles. No works required to carriageway surface. Subject to	1,875
Sw.16.i	Quy Court Junction with Main Street and Albert Road	Junction	n/a	landholders agreement. Wholesale junction improvements to Main Street, Albert Road and Quy Court Junction. Tightened junction geometry along Main Street to provide a defined carriageway and additional public realm. On the east, spill-out space outside The White Swan pub allows for a forecourt for pub seating and additional space for a tree to be planted. On the west, a new area of planted landscaping acts as a village green. A raised table across the junction forms clear priority over the junction to Main Street and Quy Court. White painted cycle and give way markings on the carriageway surface enforce this priority. Parking is relocated to a designated area on the west side of Main Street, and to the north edge of the pub for local residents. Two bollards are required to signal the greenway route. Two new trees, planting and landscaping required.	170,250
Sw.16.ii	Main Street	Quiet Road	n/a	White painted cycle markings along Main Street to indicate priority to cyclists over vehicles. Maintenance required to carriageway surface.	3,750

Sw.17.i.A	Main Street, Stow Road and Herring's Close Junction	Junction	n/a	Closure of existing junction of Stow Road and Main Street to vehicular road users, allowing new areas of landscaping and the creation of a new pedestrian and cycle crossing point providing access to the two onward route options. A bollard set within the centre of the path prevents vehicules using the access route. Priority is given to Herring's Close which curves into Main Street. New landscaping enforces change in geometry and enhances landscaping of Stow-Cum-Quy village green. Closure of layby used for Herring's Close Bus Stop along Main Street allows for an on-road bus stop, with a new landscaped area, enforcing the closure of Main Street and Stow Road junction. Stow Road speed reduction from 30mph to 20mph through village. A shift in Stow Road layout and white painted markings is required to form a new central refuge, 12m x 3m providing safe crossing to the northern side of Stow Road. A new path through highway and private woodland aligns with central refuge. Requires landscaping and wayfinding improvements including five bollards and twelve trees.	71,750
Sw.17.i.B	Main Street, Stow Road and Herring's Close Junction	Junction	n/a	Raised table to Main Street to allow cyclists to join and leave the new shared surface path. A shift in Stow Road layout and white painted markings is required to form a new central refuge, 10m x 3m providing safe crossing to the northern side of Stow Road. A new path through highway and private woodland aligns with central refuge. Requires landscaping and wayfinding improvements including four bollards and twelve trees.	N/A
Sw.17.ii.A	Shared Surface Path Through Woodland	Shared surface path	3m	Extension (c.20m) and upgrade/resurfacing of existing (c.3m wide) track through woodland, and inbetween woodland and paddock. Path continues along avenue of trees of the original Quy Hall Entrance. Removal of existing concrete blocks at the south of the entrance gate, maintenance required to road surface. Main entrance gate to be removed and replaced with a larger side gate to allow for a wider space between the gatehouse front wall and main gate for cyclists to travel two-way. A bollard is required to prevent any vehicular traffic from gaining access to the private property. Two bollards required to signal the greenway route. Solar studs required to signal the greenway route. Land acquisition required, subject to landholder agreement.	181,813

Sw.17.ii.B	Along Stow Road	Quiet Road	n/a	Stow Road speed reduction required from 30mph	9,000
				to 20mph. Cycle markings on road surface to	
				highlight cycle-friendly route to vehicle users.	
				Two bollards required to signal the greenway	
				route.	
Sw.18.i	Stow Road junction with	Junction	n/a	Wholesale junction reconfigured to reduce	203,406
	Church Lane, Orchard			vehicle speeds through Stow-Cum-Quy village	
	Street and Shared			centre. A new planted roundabout sits on a	
	Surface Path			raised table (approx 40m x 8m) in the centre of	
				Orchard Street, Church Road and Stow Road	
				junction. The raised table material highlights the	
				moment of entering the heart of the village. A	
				line of contrasting paving stones indicate priority	
				to continue along Stow Road and Church Road	
				over Orchard Lane. Adjusted geometry required	
				to the existing landscaped edges of the roads	
				to match these changes in geometry. Two new	
				trees, and three new bollards are required to	
				signal the greenway route.	
Sw.18.ii	Orchard Street	Quiet Road	n/a	Minor maintenance to Orchard Street. Two	4,625
				bollards required to indicate greenway route.	
Sw.19 (as	Path Through Farmland	Shared	3m	New shared surface path along field edge, 3m	341,813
seen in		surface path		wide with minimum 1m grassy strip on either	(287,438
Bo.8.ii)				side to allow for hedgerow and tree planting	required
				along path length. Where the path along the field	cost,
				edge converges with the Bottisham Greenway	54,375
				route (see Bo.8.i) two bollards are required to	optional
				signal the Swaffham Greenway route. Solar	additional
				studs required to signal the greenway route.	cost)
				Land acquisition required, subject to landholders	
				agreement.	







Above: the drawings laid out for the Council's communications team to edit with their preferred graphic style/ leaflet format.

STUDY OUTPUT /NEXT STEPS

We have generated feasible initial proposals for the Greenway routes between Horningsea, Bottisham, the Swaffham, and Cambridge - based on the output of the previous report by NBA, an initial round of public engagement, site visits, a series of design explorations, and input from the client team through review of the emerging proposals.

We have provided illustrative material in the form of a comprehensive route map, and sketch plans and views of an agreed series of locations, sufficient to allow the GCPs's communications / graphics team to assemble a leaflet or leaflets to present the initial designs to the public. This material also forms the basis of an

initial costing exercise which Fulkers have undertaken, providing indicative costs for the proposed interventions needed to create the featured Greenway route/s.

SWAFFHAN

Following on from this study we recommend that consultation with existing landowners continue where the proposals are on, or impact, private land, preferably ahead of public release of these proposals. Following public consultation, and collation of the responses, detailed designs should be developed in response to this feedback, to include, at that stage, input on engineering, road safety auditing and the development of a more detailed cost plan.