

DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West AUTHOR: Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

INTRODUCTION

This Technical Note (TN) has been prepared by WSP on behalf of Vistry Home Group in response to Active Travel England (ATE) comments raised regarding the Buntingford West application (ref 3/23/1447/OUT), ATE ref ATE/23/00368/OUT on 22 August 2023.

Description of development: Outline planning for the development of 350 dwellings, with up to 4,400 sqm of commercial and services floorspace (Use Class E and B8) and up to500 sqm of retail floorspace (Use Classes E) and other associated works including drainage, access into the site from the A10 and Luynes Rise (but not access within the site), allotments, public open space and landscaping.

ATE as statutory consultee have recommended **DEFERRAL** (ATE is not currently in a position to support this application and requests further assessment, evidence, revisions and/or dialogue as set out in this response) for the reasons discussed below to which WSP has provided responses accordingly. The full ATE comments to the Planning Application is included as Annex A of this TN.

Following the above, the report follows the structure below:

Active Travel England (ATE)

- Overall areas of Concern
- Trip Generation
- Qualitative review of external active travel routes
- Permeability and access to the site
- Comments on Development Framework Plan (DR-A-1002)
- Comments on Site Access Arrangement (7498-GA-02-REV G)
- Cycle Parking
- Bus Services
- Travel Plan



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AREAS OF CONCERN

It is not clear from the application what mitigation and improvements to the active travel network are proposed. While there are references to improvements of public rights of way, bus services and mobility hubs in the transport assessment it not clear what will actually be provided and what the likely impact of the proposals will be. Proposals to improve infrastructure between the site and High Street/Station Road do not appear to have been identified.

Active travel infrastructure and schemes need to be agreed and secured at outline stage to ensure that that the site is connected to the village and facilities in it and to build upon the work that is being carried out in Buntingford to improve active travel infrastructure. The consequence of not doing this is likely to mean routes are unattractive to many users, contributing to car-reliance and the resultant negative impacts upon the local environment and physical and mental health.

RESPONSE

The application is outline and details of mobility hub, cycle/walking connections and bus service will be provided at the reserved matters stage. Following comments from HCC (Appendix A of the TA), the design was reviewed with HCC highways and Public Transport Team at a meeting in November 2022. The necessary changes to the design were made including public transport arrangement and contributions (Appendix A of the TA).

That said, initial intensions have been set out in Section 2.3.9 of the TA. The overall vision is to deliver a sustainable development as the site affords a good opportunity for this (due to its location) which the development via design seeks to capitalise on. As demonstrated in Section 2.3.12 of the TA, the design of the development is such that it adopts the principles of a 20 minutes neighbourhood, the justification is set out in Table 2-1 of the TA. This coupled with the proposed connections to key locations around the site including Buntingford and Aspenden aims to deliver the sustainability objectives of the development.

The connection via Luynes Rise and Aspenden Road will provide direct active travel access to Station Road / High Street. Luynes Rise and Aspenden Road are both lightly trafficked with daily flows below 2500 vehicles making it safe for cyclist to mix with traffic to access the active travel infrastructure on Station Road. There are approximately 2.0m wide footways on both sides if Luynes Rise and Aspenden Road to provide safe walking opportunities to Station Road and onwards to the town.

That said, the infrastructure between the site and the Station Road /High Street¹ is outside the boundary of the development. Hertfordshire County Council (HCC) Highways operate two levels of S106 agreements, with items directly mitigating the impact of a development agreed through Strand 1 S106 agreement and those items mitigating the wider cumulative impact of development on non-car networks being addressed in a Strand 2 S106 agreement.

1 Buntingford cycling and walking improvements as part of the Active Travel Fund (https://storymaps.arcgis.com/collections/d398ab88e56b4461a033343e36148574?item=1)



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In the first instance (Strand 1) HCC envisages that agreed improvements and the travel plan support and monitoring fees (£1,200pa for 5 years, indexed via the RPI from May 2014) are delivered via a Strand 1 S106 agreement.

In the second instance (Strand 2) HCC calculated an appropriate headline figure based on the findings of HCC's adopted Developers Planning Obligation Toolkit. For 350 residential units the Appendix 1 of the toolkit suggests a headline figure of £2,389,100. For the commercial element of the site the TRICS database estimates that circa 104 employees would be on site which suggests that a contribution of up to £43,888 would be expected.

The suggested improvements would be agreed with HCC and delivered via the contributions set out above.

The Applicant will commit to improving all existing routes within the redline boundary as well as provide additional routes. It is expected that the contributions made will help deliver further improvements as set out above to provide wider connectivity to help alleviate the anticipated impact of the proposed development on the existing infrastructure.

TRIP GENERATION

Quantification of active travel movements generated by the development is limited in both the transport assessment and travel plan and therefore the analysis presented provides very little evidence upon which to build an effective strategy for a healthy and inclusive development. Although the transport assessment emphasises that this development will prioritise walking and cycling the trip generation in section 5 does not reflect this ambition. The transport assessment should contribute to the government's vision for half of all journeys in towns and cities being walked, wheeled or cycled by 2030 and reflect the targets in the travel plan, rather than simply provide forecasts based on historic peak hour data.

The number of all day active travel trips should be forecast based on the vision for the site. This information combined with traffic flows is required ensure that appropriate active travel infrastructure to key facilities is provided and then its use embedded from an early stage through travel plan measures.

RESPONSE

The trip generation methodology adopted within the TA was discussed and agreed with HCC who provided the mode shares to be used, via pre-application meeting and is in line with standard industry traffic impact assessment criteria.

The active travel demand resulting from the mode share calculation is therefore considered acceptable. 2.0m footways will be provided within the development including a 3.5m footway/cycleway connecting to Luynes Rise as well as improvements to the PROWs within the site (consistent 2.0m width and surface treatment).



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LTN/120 sets out in Table 6-3 the recommended minimum widths for shared use routes carrying up to 300 pedestrians per hour and 300 cyclist per hour should not be less than 3.0m. Assuming 50% of all trips are via active modes, the peak demand will be much less than 600 (walk +cycle) trips. Thus, the proposed 3.5m shared walking/cycling route and 2.0m (in line with DfT guidance) footways and footpaths through the development is considered adequate to provide the necessary capacity to accommodate the anticipated footfall and cycle demand.

Beyond the site, S106 contribution would be made towards further improvements, yet to be fully agreed to ensure routes connections from the development are provided to key destinations.

QUALITATIVE REVIEW OF EXTERNAL ACTIVE TRAVEL ROUTES

The location of the site means that it is more than 800m from most key facilities and 7km from the nearest rail station, making the shift to active travel modes more challenging. It is not clear how the isochrone accessibility maps in the transport assessment have been developed as, for example, the Co-op on Station Road appears to be more than 800m from the centre of the site and from all the proposed residential areas of the site but is shown as being within in the 800m isochrone. The cycling isochrone map appears to use footpaths or narrow alleyways where cycling is prohibited or that are unsuitable for shared use. These should be checked and information provided on the assumptions underlying the maps (note that the maps in the appendices have been incorrectly produced as the layers do not coincide with the base map).

While the maps provide information on the distances to key facilities they do not provide information on the quality of the routes and therefore whether they are of the required standard to incentivise walking, wheeling and cycling trips. Key to this site include the routes to the facilities on High Street/Station Road, routes to education facilities (primary school, middle school and college) and places of work, and to the village of Aspenden.

Routes to key facilities must be carefully considered to ensure that they are designed in accordance with the standards in LTN 1/20 and can accommodate future walking, wheeling and cycling trips. A more detailed analysis of them is required in order to provide an understanding of the design and deliverability of schemes which are required to embed active travel and ensure that the modal share targets are met. The Level of Service Tool and Junction Assessment Tool in LTN 1/20, and the Walking Route Audit Tool, should be used to assess key routes and develop appropriate schemes compliant with current standards.

RESPONSE

The point of interest for the isochrones have been based on the various access points available. If the Coopp is accessed via Monks Walk, it will be within 700m of the nearest point of access from the site. The isochrones have been updated and links prohibiting cycle use or difficult to cycle have been restricted. This has been provided at Annex B. The reduced connectivity reduces the cycling range slightly, but key destinations continue to be within acceptable limits.



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At the reserved matters stage, the development proposals will be subjected to the LTN 120 Level of Service Tool, Junction Assessment Tool and the Walking Route Audit Tool to ensure scheme compliance.

However, at this stage of the proposals the routes to key destinations within the area have been assessed using the LTN 120 Level of Service Tool, Junction Assessment Tool and the Walking Route Audit Tool to provide an assessment of the external infrastructure which the proposed development will be connecting to. Details of the assessment has been provided at Annex C.

The Cycle Level of service assessment was done by cycling all the routes highlighted in Annex C. The overall score for the routes within the immediate vicinity of the site was 46% with the lowest scoring on attractiveness and directness.

The walking route audit gave a score of 50% with the lowest scores around attractiveness and comfort.

The low scores both audits were mainly due to the lack of lighting, surveillance, pedestrian barriers, some pinch points and width restrictions.

PERMEABILITY AND ACCESS TO THE SITE

The transport strategy for this site relies on the provision of walking, wheeling, cycling and possible bus access from Lunes Rise. Two other pedestrian accesses are proposed using public footpaths 28 and 29. The all-modes access, and only vehicular access, is proposed as a roundabout on to the A10, which is likely to be of limited benefit for active travel.

The accesses that use the public footpaths are unlikely to be attractive to residents at all times as it appears that the sections through the existing development are narrow, constrained by fencing in places, not overlooked and possibly not lit. The detailed assessment outlined above will identify current conditions and whether improvements can be made.

There appears to be an opportunity to secure an active travel access onto Peasmead. This would be of benefit to the site, as would any opportunities to link the employment areas to the Watermill Industrial Estate for walking, wheeling and cycling. These options should be investigated.

Evidence that the proposed active travel accesses can be provided should be attained at the outline application stage. These, and additional active travel accesses where possible, must be secured by a Grampian condition to ensure that they are delivered before first occupation and not thwarted by any land ownership issues that arise at a later stage. The application will not be acceptable to ATE if the only access is onto the A10.

RESPONSE

The connection via Peasmead and Watermill Estate were previously investigated but could not be pursued due to land ownership issues. However, there remain some opportunity for a connection to be



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made via Peasmead. This opportunity however has some width limitations due to land ownership issues. I have attached the boundary check of the site's red line application plan which shows a separate title ownership of the small triangle in the right top corner which is within a neighbour's ownership. This reduces the width available for a cycle/footpath nonetheless a form of access could be achieved at this point as shown in Annex D.

Due to landownership issues, the connection via the Watermill Estate cannot be pursued.

COMMENTS ON DEVELOPMENT FRAMEWORK PLAN (DR-A-1002)

- a) The proposed internal footway/cycleway should extend to the employment area to the east and to the residential area to the north so that this serves and connects all of the site. The use of the shared surface should be reviewed against the requirements in LTN 1/20.
- b) It is not clear what the distinction is between the footway/cycleway (purple) and the recreational route (orange). Both seem to serve the residential area and should be of the same standard.
- c) The treatment of the public rights of way and whether they will be upgraded for cycling is not clear.

RESPONSE

- a. Extending the shared cycle route to the north have been considered. There is limited opportunity for further connectivity beyond the site, cyclist may have to dismount for a small section of the route to join lightly trafficked routes off site. However, the lightly trafficked roads provides onward connectivity to the north. There is currently no LCWIP for East Herts to provide an indication for where connections could be made The main active travel provision in the area is the infrastructure on Station Road/London Road which the development has proposed a connection to via Luynes Rise and will make contributions for further improvements beyond the site.
 - The use of the 3.5m shared route has been reviewed against LTN/120, initial proposals were 3.0m. This was discussed with HCC highways and has been increased to 3.5m as currently proposed.
- b. The purple is a 3.5m shared waking and cycling route and the orange is 2.0m waking route through the development. As the development will generate less than 2500 trips per day with speeds at 20mph (upper limit for inclusive cycling within carriageway) the roads within the development by LNT/120 standards are considered safe and cyclist can mix with light traffic on-street throughout the development.
- c. Public right of way through the development will be resurfaced and provided with a consistent width. The site is in a rural setting and this level of infrastructure provision ie upgrading all the footways to shared cycle routes is considered excessive. The connections of these routes outside the site are also via restricted alleyways so further connectivity will be restricted. Following the above, there is little justification for the full shared use upgrade of all the footpaths. The proposed cycle route



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provides a suitable connection through the centre of the development, this coupled with the low speed and trafficked development roads provides ample cycling opportunity throughout the development and provides a key connection to the active travel infrastructure on Station Road/London Road for further travel.

COMMENTS ON SITE ACCESS ARRANGEMENT

- d) The junction design should be assessed using the Junction Assessment Tool in LTN 1/20.
- e) The need for a 30mph access road into the site should be reviewed as residential streets should be designed to keep vehicle speeds at or below 20mph in accordance with Manual for Streets (Section 1.6.1).
- f) Appropriate junction treatment should be considered at the site access.
- g) The proposed crossings of the do not appear to be LTN 1/20 compliant for the speed and traffic volume of the road. The public rights of way are likely to attract more use so the provision of a crossing in accordance with national standards is required.

RESPONSE

d) The junction has been assessed using the Junction Assessment Tool in LTN 1/20 and details provided at Annex E. The overall junction score was 25% for the standard refuge crossing. The design option for a signal crossing was also accessed and the score was 75%. It is worth noting that the previous design for the junction was a full signal T-junction which the Strategic Infrastructure Board (STIB) objected to.

Following the objection, the current roundabout design with refuge crossing was pursued given the low anticipated footfall and cycle demand at the junction.

The updated design is a sparrow crossing ie a signalised parallel crossing which provides a separate crossing for walking and cycling, increasing safety and making it easier to carry on a journey.

This design option has been shared with HCC Highways for comments.

- e) At detailed design stage, details of a 20mph layout will be shown
- f) The intension is to provide details of junction treatments at the detailed design stage
- g) An LTN/120 Junction assessment has been undertaken and the crossing has been redesigned to achieve an acceptable score. The junction assessment is provided at Annex E.



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CYCLE PARKING

The transport assessment proposes to use the minimum standard for car parking from the East Herts SPD Parking Provision at New Developments (2015) as the site is being designed to maximise active travel.

To support this ambition it is recommended that the cycle parking standards in LTN 1/20 Table 11-1 be adopted for all dwellings i.e. 1 per bedroom and that this be conditioned at outline stage. At reserved matters stage, more innovative ways of providing cycle parking should be considered than a shed in the back garden in order to provide convenient and secure cycle parking.

It should be noted that LTN 1/20 states that, as with car parking, a proportion of the commercial cycle parking (typically 5%) should be provided for non-standard cycles to accommodate people with mobility impairments. This should be subject to condition or identified for assessment at reserved matters stage as appropriate.

RESPONSE

The level of cycle parking and storage will be assessed as part of the wider masterplan at the reserved matters stage.

BUS SERVICES

The nearest bus stop is over 400m from the site. The transport assessment states that the applicant is seeking to establish a pick up point for the DRT in the development, or divert services through the site, and that contributions are planned. It is not clear what these contributions are or how they will improve bus services to the site. Further details and commitments are required to ensure that appropriate services to the site are provided. Discussion with the local highway and planning authorities should continue in this regard, with an agreed position forming part of the S106 agreement for the site

RESPONSE

Discussions with HCC highways and Public Transport Team took place in November 2022 . An agreement is in place including contributions towards rerouting Herts Lynx and a local bus service via the site as set out in Appendix A of the TA.

TRAVEL PLAN

The submitted travel plan requires further detail on the level of active travel trips that are forecast to be generated. Initial targets for mode share should be more ambitious to reflect the overall objectives for the site. Details of the infrastructure to be provided and how its use will be embedded by initiatives and incentives in the travel plan should be outlined and committed to. Details of actions to be taken if the targets are not met should also be outlined with the intention for these to be secured, implemented and monitored through planning conditions / S106 obligations. The final travel plan should be submitted for approval prior to first occupation of the development.



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RESPONSE

As previously discussed under the trip generation section, the proposed infrastructure through the development is considered adequate to provide the necessary capacity to accommodate the anticipated footfall and cycle demand. It is noted that Gear Change sets out the government's vision for half of all journeys in towns and cities to be walked, wheeled or cycled by 2030. This was considered in determining the 30% sustainable travel mode share for the site. The 50% active travel mode share is more achievable in towns and cities, given the rural nature of the development site, the level of infrastructure and attractions in the area, the 30% target is considered a realistic and achievable.

That said a 50% active travel demand was utilised in the calculation for the design of the site access via the A10.

Details of the infrastructure and how its use will be embedded by initiatives and incentives are set out within the Travel Plans Section 6 which sets out the hard measures (infrastructure provision) and how these will be used in conjunction with the soft measures including incentives (eg bus taster tickets) to promote and sustain active travel at the site.

In line with HCC Travel Plan Guidance, remedial measures may be written into the planning obligation to supports the county council in pursuing sanctions to ensure that remedies are made if targets are not met. This can be secured through planning condition.



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Annex A

ATE COMMENTS



Active Travel England West Offices Station Rise York YO1 6GA Tel: 0300 330 3000

Your Ref: 3/23/1447/OUT Our Ref: ATE/23/00368/OUT Date: 22 August 2023

Active Travel England Planning Response Detailed Response to an Application for Planning Permission

From: Planning & Development Division, Active Travel England

To: Amit Patel, East Hertfordshire District Council

Application Ref: 3/23/1447/OUT

Site Address: Land East Of The A10, Buntingford

Description of development: Outline planning for the development of 350 dwellings, with up to 4,400 sqm of commercial and services floorspace (Use Class E and B8) and up to 500 sqm of retail floorspace (Use Classes E) and other associated works including drainage, access into the site from the A10 and Luynes Rise (but not access within the site), allotments, public open space and landscaping

Notice is hereby given that Active Travel England's formal recommendation is as follows:

- a. **No Objection:** ATE has undertaken a detailed assessment of this application and is content with the submission.
- b. Conditional approval: ATE recommends approval of the application, subject to the agreement and implementation of planning conditions and/or obligations as set out in this response.
- c. **Deferral:** ATE is not currently in a position to support this application and requests further assessment, evidence, revisions and/or dialogue as set out in this response.
- d. **Refusal:** ATE recommends that the application be refused for the reasons set out in this response.

1.0 Background

These comments have been prepared by Active Travel England in response to application 3/23/1447/OUT. The site does not appear to be the allocated in the East Hertfordshire District Plan (2018). Policy TRA1 (Sustainable Transport) of the plan includes a requirement to 'Ensure that a range of sustainable transport options are available to occupants or users, which may involve the improvement of pedestrian links, cycle paths, passenger transport network (including bus and/or rail facilities) and community transport initiatives'; and 'Ensure that site layouts prioritise the provision of modes of transport other than the car (particularly walking, cycling and, where appropriate, passenger transport)

which, where feasible, should provide easy and direct access to key services and facilities'.

Hertfordshire County Council was successful in securing funding from the Active Travel Fund for a scheme in Buntingford, situated on London Road to east of the application site. The scheme provides:

- 1. A shared use path along London Road/Station Road/High Street
- 2. New and improved crossing points for pedestrians and cyclists
- 3. Introduction of a 30mph speed limit
- 4. New and improved bus stops

The final phase of the London Road works is completed and open, while a second stage of the scheme, High Street (Hare Street Road - Vicarage Road), is currently in detailed design with construction expected to start in Summer 2024.

It is understood that a Local Cycling and Walking Infrastructure Plan (LCWIP) for East Herts is currently under development, but no details are currently available.

2.0 Summary

Active Travel England (ATE) considers that the application as submitted does not demonstrate that 'appropriate opportunities to promote sustainable transport modes can be - or have been - taken up' in accordance with the National Planning Policy Framework (NPPF), paragraph 110a. It is therefore recommended that this application should not be determined until further information has been submitted and reviewed.

As far as can be determined from the submitted documents the application does not provide sufficient information for ATE to be assured that the design of the development, proposed active travel infrastructure and travel plan will create an environment that supports and embeds active travel.

3.0 National Policy and Guidance

The National Planning Policy Framework (NPPF) states:

- 110. In assessing... specific applications for development, it should be ensured that:
- a) appropriate opportunities to promote sustainable transport modes can be or have been taken up, given the type of development and its location; [and]
- b) safe and suitable access to the site can be achieved for all users;
- 112. ...applications for development should:
- a) give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas...;
- b) address the needs of people with disabilities and reduced mobility in relation to all modes of transport; [and]
- c) create places that... minimise the scope for conflicts between pedestrians, cyclists and vehicles...;

Gear change: a bold vision for cycling and walking is the Government's cycling and walking plan for England. This sets the Government's vision for cycling and walking to be the natural first choice for many journeys with half of all journeys in towns and cities being cycled or walked by 2030. Active Travel England's responsibilities for walking also extend

to "wheeling", such as the use of wheelchairs (self-propelled or powered) and mobility scooters.

Inclusive mobility: making transport accessible for passengers and pedestrians provides guidance on designing and improving the accessibility and inclusivity of public transport and pedestrian infrastructure.

Active Design (Sport England, supported by Active Travel England and the Office for Health Improvement & Disparities) sets out how the design of our environments can help people to lead more physically active and healthy lives.

Local Transport Note 1/20 (LTN 1/20) provides guidance to local authorities on delivering high quality, cycle infrastructure. It includes five core design principles which represent the 'essential requirements to achieve more people travelling by cycle or on foot, based on best practice both internationally and across the UK' and detailed design standards to cycle infrastructure.

4.0 Areas of Concern

It is not clear from the application what mitigation and improvements to the active travel network are proposed. While there are references to improvements of public rights of way, bus services and mobility hubs in the transport assessment it not clear what will actually be provided and what the likely impact of the proposals will be. Proposals to improve infrastructure between the site and High Street/Station Road do not appear to have been identified.

Active travel infrastructure and schemes need to be agreed and secured at outline stage to ensure that that the site is connected to the village and facilities in it and to build upon the work that is being carried out in Buntingford to improve active travel infrastructure. The consequence of not doing this is likely to mean routes are unattractive to many users, contributing to car-reliance and the resultant negative impacts upon the local environment and physical and mental health.

Trip generation

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developed as, for example, the Co-op on Station Road appears to be more than 800m from the centre of the site and from all the proposed residential areas of the site but is shown as being within in the 800m isochrone. The cycling isochrone map appears to use footpaths or narrow alleyways where cycling is prohibited or that are unsuitable for shared use. These should be checked and information provided on the assumptions underlying the maps (note that the maps in the appendices have been incorrectly produced as the layers do not coincide with the base map).

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Routes to key facilities must be carefully considered to ensure that they are designed in accordance with the standards in LTN 1/20 and can accommodate future walking, wheeling and cycling trips. A more detailed analysis of them is required in order to provide an understanding of the design and deliverability of schemes which are required to embed active travel and ensure that the modal share targets are met. The Level of Service Tool and Junction Assessment Tool in LTN 1/20, and the Walking Route Audit Tool, should be used to assess key routes and develop appropriate schemes compliant with current standards.

Permeability and access to the site

The transport strategy for this site relies on the provision of walking, wheeling, cycling and possible bus access from Lunes Rise. Two other pedestrian accesses are proposed using public footpaths 28 and 29. The all-modes access, and only vehicular access, is proposed as a roundabout on to the A10, which is likely to be of limited benefit for active travel.

The accesses that use the public footpaths are unlikely to be attractive to residents at all times as it appears that the sections through the existing development are narrow, constrained by fencing in places, not overlooked and possibly not lit. The detailed assessment outlined above will identify current conditions and whether improvements can be made.

There appears to be an opportunity to secure an active travel access onto Peasmead. This would be of benefit to the site, as would any opportunities to link the employment areas to the Watermill Industrial Estate for walking, wheeling and cycling. These options should be investigated.

Evidence that the proposed active travel accesses can be provided should be attained at the outline application stage. These, and additional active travel accesses where possible, must be secured by a Grampian condition to ensure that they are delivered before first occupation and not thwarted by any land ownership issues that arise at a later stage. The application will not be acceptable to ATE if the only access is onto the A10.

Comments on Development Framework Plan (DR-A-1002)

a) The proposed internal footway/cycleway should extend to the employment area to the east and to the residential area to the north so that this serves and connects all of the site. The use of the shared surface should be reviewed against the requirements in LTN 1/20.

- b) It is not clear what the distinction is between the the footway/cycleway (purple) and the recreational route (orange). Both seem to serve the residential area and should be of the same standard.
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Comments on Site Access Arrangement (7498-GA-02-REV G)

- d) The junction design should be assessed using the Junction Assessment Tool in LTN 1/20.
- e) The need for a 30mph access road into the site should be reviewed as residential streets should be designed to keep vehicle speeds at or below 20mph in accordance with Manual for Streets (Section 1.6.1).
- f) Appropriate junction treatment should be considered at the site access.
- g) The proposed crossings of the do not appear to be LTN 1/20 compliant for the speed and traffic volume of the road. The public rights of way are likely to attract more use so the provision of a crossing in accordance with national standards is required.

Cycle Parking

The transport assessment proposes to use the minimum standard for car parking from the East Herts SPD Parking Provision at New Developments (2015) as the site is being designed to maximise active travel.

To support this ambition it is recommended that the cycle parking standards in LTN 1/20 Table 11-1 be adopted for all dwellings i.e. 1 per bedroom and that this be conditioned at outline stage. At reserved matters stage, more innovative ways of providing cycle parking should be considered than a shed in the back garden in order to provide convenient and secure cycle parking.

It should be noted that LTN 1/20 states that, as with car parking, a proportion of the commercial cycle parking (typically 5%) should be provided for non-standard cycles to accommodate people with mobility impairments. This should be subject to condition or identified for assessment at reserved matters stage as appropriate.

Bus Services

The nearest bus stop is over 400m from the site. The transport assessment states that the applicant is seeking to establish a pick up point for the DRT in the development, or divert services through the site, and that contributions are planned. It is not clear what these contributions are or how they will improve bus services to the site. Further details and commitments are required to ensure that appropriate services to the site are provided. Discussion with the local highway and planning authorities should continue in this regard, with an agreed position forming part of the S106 agreement for the site.

Travel Plan

The submitted travel plan requires further detail on the level of active travel trips that are forecast to be generated. Initial targets for mode share should be more ambitious to reflect the overall objectives for the site. Details of the infrastructure to be provided and how its use will be embedded by initiatives and incentives in the travel plan should be outlined and committed to. Details of actions to be taken if the targets are not met should also be outlined with the intention for these to be secured, implemented and monitored through planning conditions / S106 obligations. The final travel plan should be submitted for approval prior to first occupation of the development.

5.0 Next Steps

This advice should be forwarded to the agent/developer and highway authority. ATE would be content to review further submitted information to help address the identified issues; and with a view to providing a further response and recommended wording for planning conditions and obligations as appropriate.

If this application is to be presented to the Council's Planning Committee, ATE would like to be notified in advance of the meeting date and the publication of any agenda and report.



DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

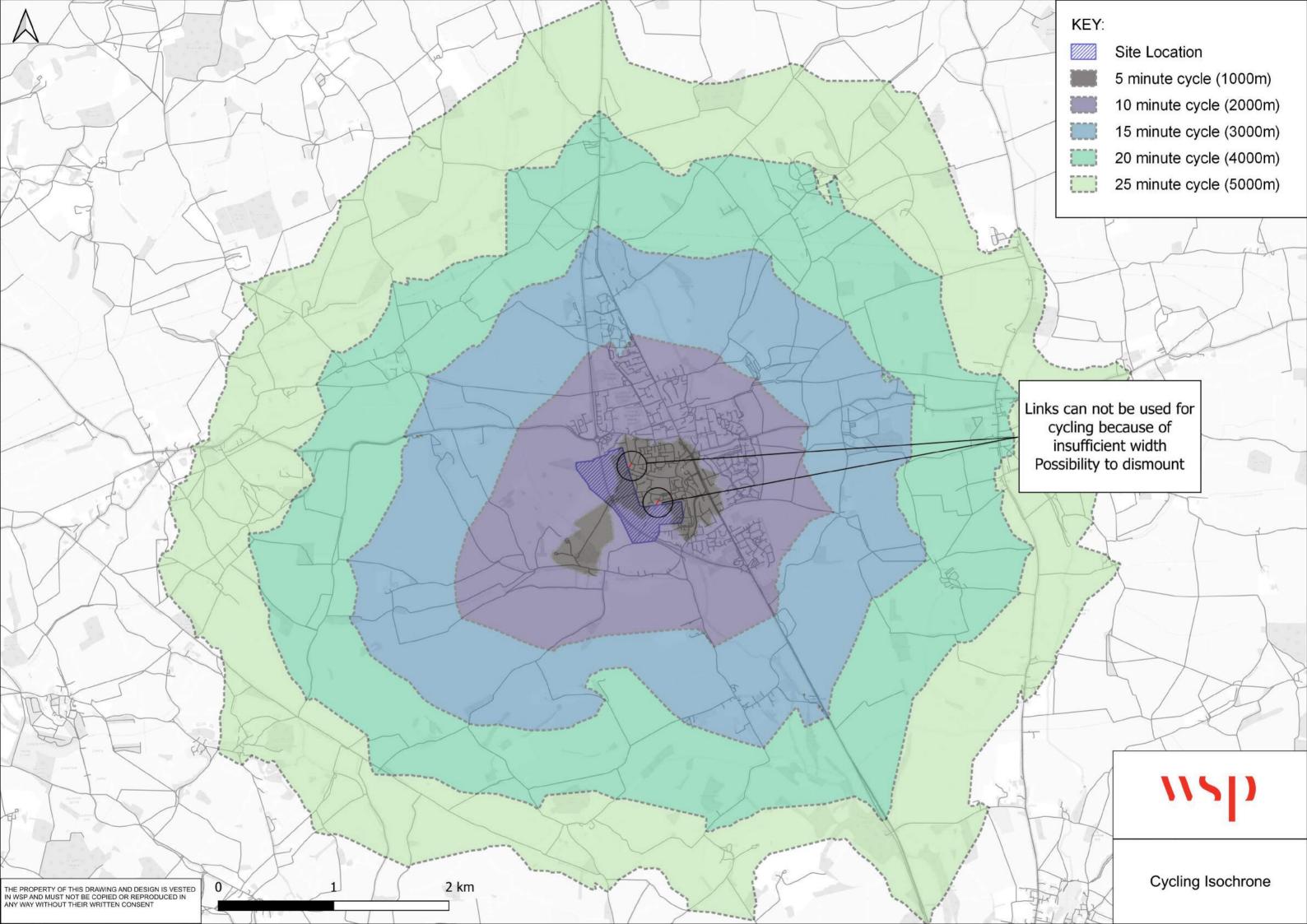
SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex B

CYCLING ISOCHRONE WITH LINKS REMOVED





DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

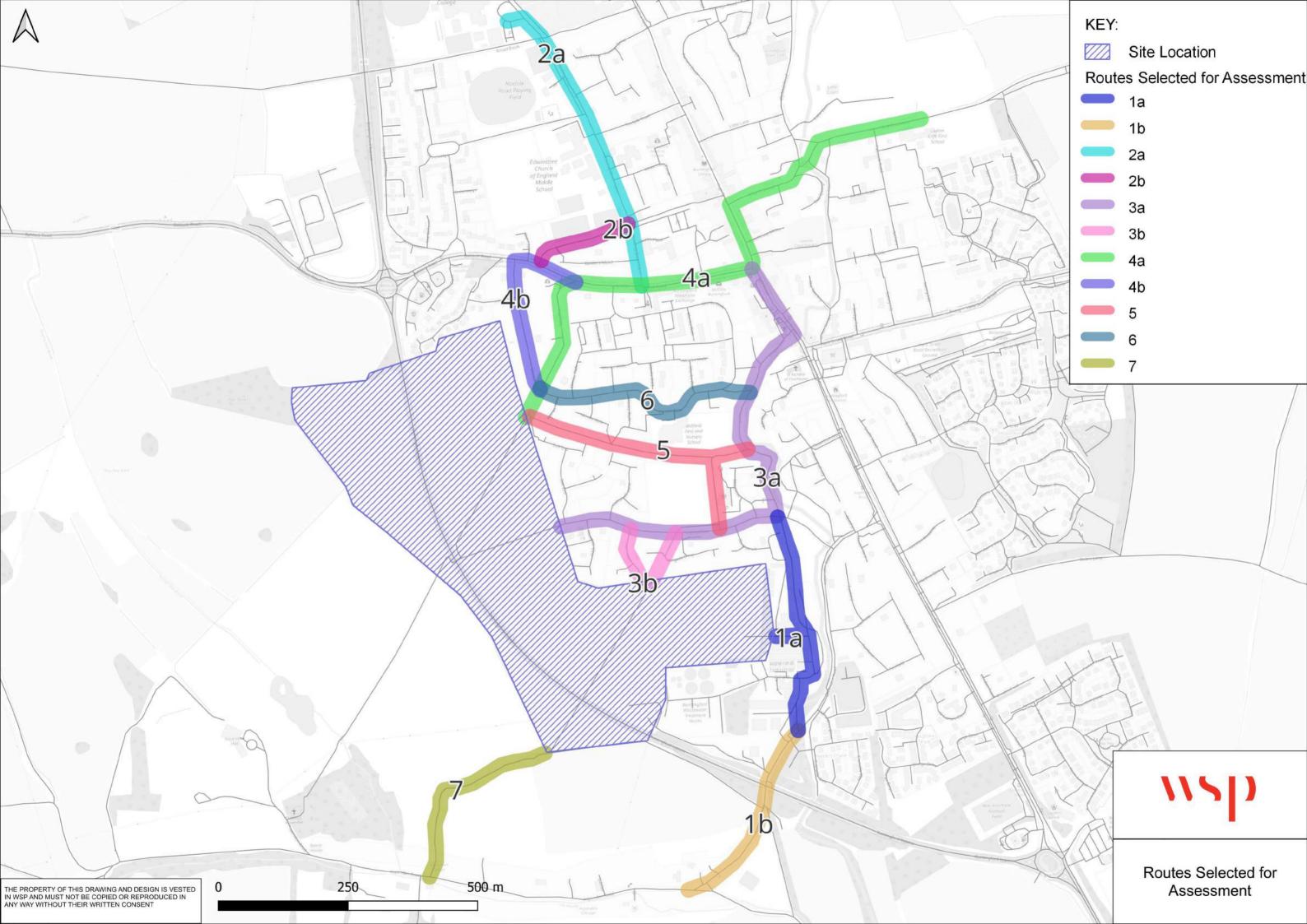
SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

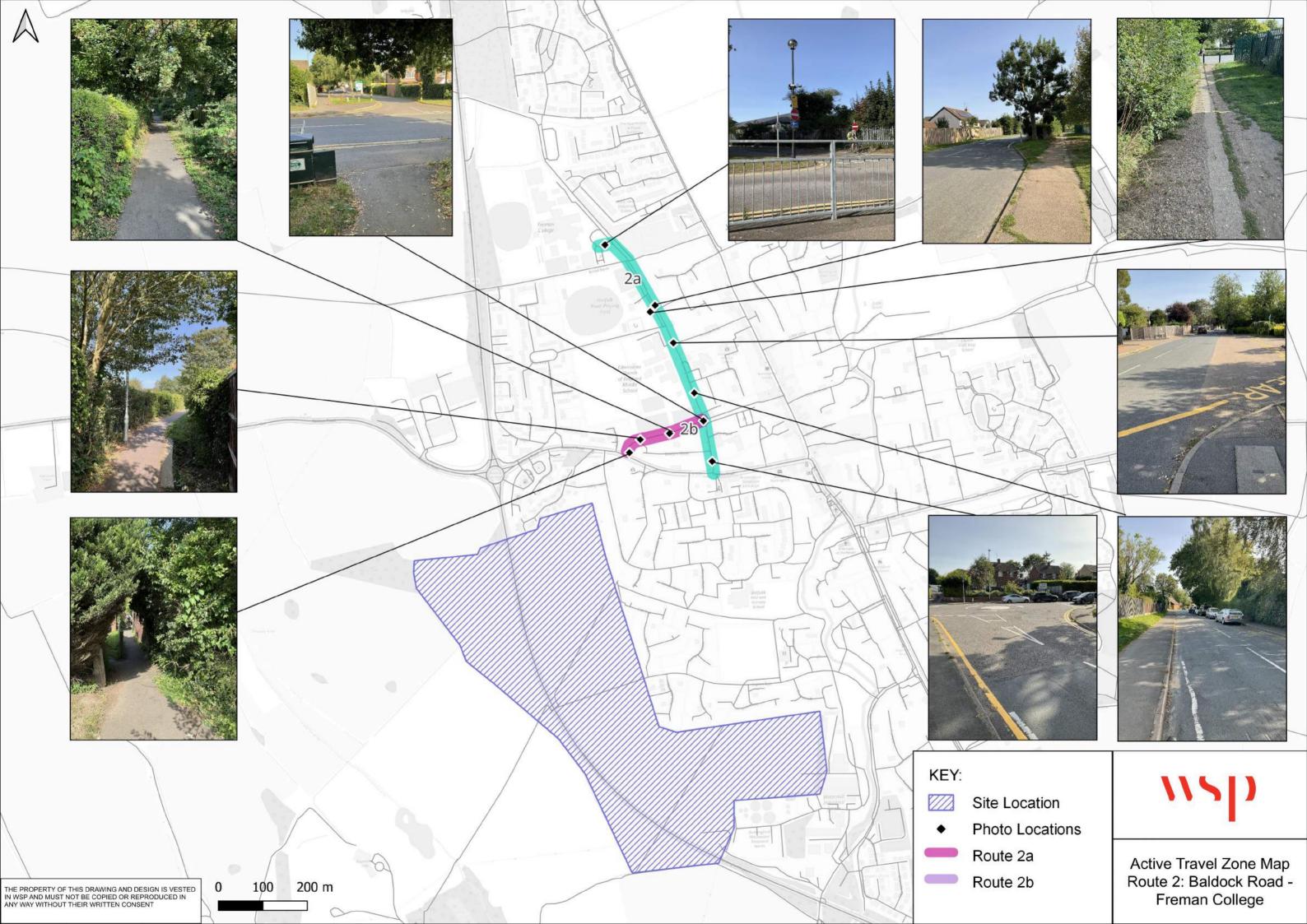
CHECKED: Mehmet A APPROVED: Mehmet A

Annex C

ROUTE AUDIT



















DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex C.1

LTN 120 CYCLE LEVEL OF SERVICE TOOL

Route name	Total Score	Score %
Route 1a: Knights Cl - Luynes Rise - Aspenden Road	27	54%
Route 1b: Knights Cl - Luynes Rise - Aspenden Road	14	28%
Route 2a: Baldock Road - Freman College	21	42%
Route 2b: Baldock Road - Bowling Green Lane	27	54%
Route 3a: Luynes Rise - High Street	25	50%
Route 3b: Knights Cl - Luynes Rise	31	62%
Route 4a: Oak End - Layton First School	17	34%
Route 4b: Monks Walk - Baldock Road	24	48%
Route 5: Oak End - River Rib	21	42%
Route 6: Monks Walk - River Rib	21	42%
Route 7: A10 - Aspenden Road	19	38%
	23	46%

		evel of Service							
Key requirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	cyclists should be able to easily and safety join and navigate along different sections of the same route and between different routes in the network.	join/leave route join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	routes snow be complete with no gaps in provision. 'End of route' signs should not be installed - cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	0	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	3. Density of routes based on mesh width ie distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	0	
	Distance	Routes should follow the shortest option available and be as near to the 'ias-the-crow-flee' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative ≥1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	7. Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	1	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	9. Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
	carriageway	important at points where risk of collision is greater, such as at junctions.	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
Safety	Avoid high motor traffic volumes where cyclists are sharing the carriageway	Cyclists should not be required to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	11. Motor traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	Where speed differences and high motor whiche stows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation cam be achieved at varying degrees through on-road cycle laines, hybrid tracks and off-road provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway, 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridlight segregated track; 85th percentile motor traffic speed max 30mph.	1	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewdent to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbalde activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guillies, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	Machine laid smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps.	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	Routes should be appealing and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	1	
		Introduction of dedicated	22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of adecident on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	2	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	
							Audit Score Total	27	

ROUTE SUMMARY

Route Name	Route 1: Knights CI - Luynes Rise - Aspenden Road
Length	960m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

		evel of Service							
Key requirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber) Cyclists can	2 (Green) Cyclists have dedicated	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	with no gaps in provision. End of route' signs should not be installed - cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at Junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	Pinch point created by a tree in a sharp bend
	Density of network	Cycle networks should provide a mesh (or gird) of routes across the town or city. The density of the network is the distance between the routes which make up the gird pattern. The ultimate aim should be a network with a mesh width of 250m	3. Density of routes based on mesh width le distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-flee' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at Junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	7. Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	1	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	1	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing severity of collisions is reducing severity of collisions in reducing severity of more closely match that of cyclists. This is particularly	9. Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway	important at points where risk of collision is greater, such as at junctions.	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
Safety	Avoid high motor traffic volumes where cyclists are sharing the carriageway	Cyclists should not be required to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	11. Motor traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	0	
	Risk of collision	Where speed differences and high motor vehicle flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation cam be achieved at varying degrees through on-road cycle laines, hybrid tracks and off-road provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wde and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridilight segregated track; 85th percentile motor traffic speed max 30mph.	0	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	0	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewdent to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	o	
	Consider and reduce risk from kerbalde activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	0	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	Machine laid smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	0	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps.	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	0	
	Social safety and perceived vulnerability of user	Routes should be appealing and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	0	
		Introduction of dedicated	22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	0	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	0	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand Audit Score Total	0	

ROUTE SUMMARY

Route Name	Route 1: Knights CI - Luynes Rise - Aspenden Road
Length	960n
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Key requirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	Cyclines should be able to easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	with no gaps in provision. 'End of route' signs should not be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	Density of routes based on mesh width le distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the last-the-crow-fleet distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	7. Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	1	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	1	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway Avoid high	important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	10. Motor traffic speed on sections of shared carriageway 11. Motor traffic volume	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
3 afety	motor traffic volumes where cyclists are sharing the carriageway	to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	Where speed differences and high motor whiches flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-road cycle lanes, hybrid tracks and off-oad provision. Such seigregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybrid/light segregated track; 85th percentile motor traffic speed max 30mph.	0	
		Invoking cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	0	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	0	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	0	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	

ROUTE SUMMARY

Route Name	Route 2a: Baldock Road - Freman College
Length	600m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

(ey equirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network. Routes should be complete	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
ohesion	Continuity and Wayfinding	with no gaps in provision. 'End of route' signs should not be installed - cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	0	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	Density of routes based on mesh width le distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-fles' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative ≥1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	2	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	2	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	9. Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
	carriageway Avoid high	Important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	10. Motor traffic speed on sections of shared carriageway 11. Motor traffic volume	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
iafety	motor traffic volumes where cyclists are sharing the carriageway	to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	Where speed differences and high motor whiches flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-road cycle laines, hybrid tracks and off-road provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridlight segregated track; 85th percentile motor traffic speed max 30mph.	0	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	2	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	o	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity — eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	2	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrall, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	smooth and non-slip surface — eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
omfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	0	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	0	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	0	
uttractiveness	Impact on pedestrians, including people with disabilities	Introduction of declarated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling cnto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	2	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	

ROUTE SUMMARY

 Route Name
 Route 2b: Baldock Road - Bowling Green Lane

 Length
 380m

 of Assessor(s)
 Helen Panfliova

 of Assessment
 05 September 2023
 Comments
Actions

Append		evel of Service T				l		ı.	
requirement	Factor	Design principle Cyclists should be able to	1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have dedicated	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	connect to other routes with minimal disruption to their journey	connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	Routes should be complete with ne gaps in provision. End of route' signs should not be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandment', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routies across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	Density of routes based on mesh width ie distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-fles' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	1	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the entires are sharing the entire control of the cyclistic and the special service of the special service and the special service and the special service closely match that of cyclists. This is particularly	9. Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction 10. Motor	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway	important at points where risk of collision is greater, such as at junctions.	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
Safety	Avoid high motor traffic volumes where cyclists are sharing the carriageway	Cyclists should not be required to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	1	
	Risk of collision	Where speed differences and high motor whiches flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-coad cycle lanes, hybrid tracks and off-road provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybrid/light segregated track; 85th percentile motor traffic speed max 30mph.	1	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/sider coads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to bland in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbalde activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle tane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ gullies, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	Machine laid smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor wehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps.	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	Routes should be appealing and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	1	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Combot Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	
							Audit Score Total	25	

ROUTE SUMMAR

Route Name	Route 3a: Luynes Rise - High Stree
Length	708m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023
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(ey equirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	Cyclines should be able to easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
iohesion	Continuity and Wayfinding	with no gaps in provision. 'End of route' signs should not be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	Density of routes based on mesh width le distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	0	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-flee' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	2	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	2	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	7. Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	2	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
	carriageway Avoid high	important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	10. Motor traffic speed on sections of shared carriageway 11. Motor traffic volume	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
afety	motor traffic volumes where cyclists are sharing the carriageway	to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	Where speed differences and high motor whiches flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-road cycle lanes, hybrid tracks and off-oad provision. Such seigregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on -carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridlight segregated track; 85th percentile motor traffic speed max 30mph.	2	
		Invoking cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
omfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	1	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
uttractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	

ROUTE SUMMAR

Route Name	Route 3b: Knights CI - Luynes Rise
Length	230m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Key equirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network. Routes should be complete	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	routes snown be complete with no gaps in provision. 'End of route' signs should not be installed - cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are "abandoned" at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	Barriers at e of route requiring cyclist to dismount
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	3. Density of routes based on mesh width ie distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-flee' distance as possible.	4. Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	0	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	1	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing servirly of collisions is reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	9. Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	0	
	Carriageway Avoid high	important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	0	
Safety	motor traffic volumes where cyclists are sharing the carriageway	to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	0	
	Risk of collision	Where speed differences and high motor whiche flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation cam be achieved at varying degrees through on-cade cycle laines, hybrid tracks and off-road provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridilight segregated track. Seth percentile motor traffic speed max 30mph.	0	
		involving cyclists occur at junctions, Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	0	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfevident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity — eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur. Density of defects including	room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
		non cycle friendly ironworks, raised/sunken covers/ gullies, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
Comfort	Surface quality	Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	smooth and non-slip surface — eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	0	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	Routes should be appealing and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	1	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road manual people to cycle on-road which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrians Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	

ROUTE SUMMAP

Route Name	Route 4a. Oak Eliu - Laytoli Filst Scrioo
Length	1190m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Append		evel of Service T							
requirement	Factor	Design principle Cyclists should be able to	1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have dedicated	Score	Comments
	Connections	easily and safety join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	connect to other routes with minimal disruption to their journey	connections to other routes provided, with no interruption to their journey	1	
		Routes should be complete with no gaps in provision. 'End of route' signs should not			Cyclists are	The route is made			
Cohesion	Continuity and Wayfinding	be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		'abandoned' at points along the route with no clear indication of how to continue their journey	sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the	Density of routes based on mesh width le distances between primary and		Route contributes to a network density mesh width	Route contributes to a network density mesh width 250 –	Route contributes to a network density mesh width <250m	1	
		grid pattern. The ultimate aim should be a network with a mesh width of 250m	secondary routes within the network		>1000	1000m	width <250m		
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-flies' distance as possible.	4. Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised.	6. Delay at junctions		Delay for cyclists at junctions is	Delay for cyclists at junctions is	Delay is shorter than for motor	1	
		This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	,		greater than for motor vehicles	similar to delay for motor vehicles	vehicles or cyclists are not required to stop at junctions (eg bypass at signals)		
	Time: Delay on links	The length of delay caused by not being able to bypass slow	7. Ability to maintain own		Cyclists travel at speed of slowest	Cyclists can usually pass slow	Cyclists can always choose an	1	
	Gradients	moving traffic. Routes should avoid steep	speed on links 8. Gradient		vehicle (including a cycle) ahead Route includes	traffic and other cyclists	appropriate speed.	2	
	Gradients	gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.			sections sections steeper than the gradients recommended in Chapter 5	There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway	important at points where risk of collision is greater, such as at junctions.	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
Safety	Avoid high motor traffic volumes where cyclists are sharing the carriageway	Cyclists should not be required to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	1	
	Risk of collision	Where speed differences and high motor whichel flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-road cycle lanes, hybrid tracks and off-oad provision. Such segregation should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridilight segregated track; 85th percentile motor traffic speed max 30mph.	1	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/aider cade – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	require users to process large amounts of information. Good network design should be self-explanatory and selfevident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbaide activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ gullies, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	1	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	Machine laid smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	1	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	0	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	1	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	1	
		Introduction of the state of th	22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	1	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	
							Audit Score Total	24	

ROUTE SUMMARY

Route Name	Route 4b: Monks Walk - Baldock Road
Length	380m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Comments Actions

Append		evel of Service T							
requirement	Factor	Design principle Cyclists should be able to	1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have dedicated	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
Cohesion	Continuity and Wayfinding	Routes should be complete with no gaps in provision. Tend of route' signs should not be installed — cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a	Density of routes based on mesh width le distances between primary and secondary routes within the		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	mesh width of 250m Routes should follow the shortest option available and be as near to the "as-the-crow-fies" distance as possible.	network 4. Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
Directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow	7. Ability to maintain own		Cyclists travel at speed of slowest	Cyclists can usually pass slow	Cyclists can always choose an	1	
	Gradients	moving traffic. Routes should avoid steep	speed on links 8. Gradient		vehicle (including a cycle) ahead Route includes	traffic and other cyclists There are no	appropriate speed. There are no	2	
		gradients where possible. Uphilli sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	9. Motor		sections steeper than the gradients recommended in Chapter 5	sections of route steeper than the gradients recommended in Chapter 5	sections of route which steeper than 2%		
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	y. Moor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction 10. Motor	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway Avoid high	important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
Safety	word ingili woturnes where cyclists are sharing the carriageway	Cyclesses should not be required to share the carriageway with high volumes of motor wehicles. This is particularly important at points where risk of collision is greater, such as at junctions. Where speed differences	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	with the production of the control o	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway, 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybriddlight segregated track; 85th percentile motor traffic speed max 30mph.	1	
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfevident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	o	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	Machine laid smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	0	
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	0	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lift, overfooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	0	
		Introduction of the second	22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	0	
Attractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	
							Audit Score Total	21	

ROUTE SUMMAR

Route Name	Route 5: Oak End - River Rib
Length	570m
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Comments

(ey equirement	Factor	Design principle Cyclists should be able to	Indicators 1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have	Score	Comments
	Connections	Cyclines should be able to easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	Cyclists can connect to other routes with minimal disruption to their journey	dedicated connections to other routes provided, with no interruption to their journey	1	
iohesion	Continuity and Wayfinding	with no gaps in provision. 'End of route' signs should not be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	Provision for cyclists throughout the whole length of the route		Cyclists are 'abandoned' at points along the route with no clear indication of how to continue their journey	The route is made up of discrete sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	1	
	Density of network	Cycle networks should provide a mesh (or grid) of routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	Density of routes based on mesh width le distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
	Distance	Routes should follow the shortest option available and be as near to the 'as-the-crow-fles' distance as possible.	Deviation of route Deviation Factor is calculated by dividing the actual distance along the route by the straight line (crow-fly) distance, or shortest road alternative.		Deviation factor against straight line or shortest road alternative >1.4	Deviation factor against straight line or shortest road alternative 1.2 – 1.4	Deviation factor against straight line or shortest road alternative <1.2	1	
directness	Time: Frequency of required stops or give ways	The number of times a cyclist has to stop or loses right of way on a route should be minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		The number of stops or give ways on the route is more than 4 per km	The number of stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised. This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.	6. Delay at junctions		Delay for cyclists at junctions is greater than for motor vehicles	Delay for cyclists at junctions is similar to delay for motor vehicles	Delay is shorter than for motor vehicles or cyclists are not required to stop at junctions (eg bypass at signals)	1	
	Time: Delay on links	The length of delay caused by not being able to bypass slow moving traffic.	7. Ability to maintain own speed on links		Cyclists travel at speed of slowest vehicle (including	Cyclists can usually pass slow traffic and other	Cyclists can always choose an appropriate speed.	1	
	Gradients	Routes should avoid steep gradients where possible. Uphill sections increase time, effort and discomfort. Where these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	8. Gradient		a cycle) ahead Route includes sections steeper than the gradients recommended in Chapter 5	cyclists There are no sections of route steeper than the gradients recommended in Chapter 5	There are no sections of route which steeper than 2%	2	
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	Motor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
	carriageway Avoid high	important at points where risk of collision is greater, such as at junctions. Cyclists should not be required	10. Motor traffic speed on sections of shared carriageway 11. Motor traffic volume	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	1	
afety	motor traffic volumes where cyclists are sharing the carriageway	to share the carriageway with high volumes of motor vehicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
	Risk of collision	Where speed differences and high motor whiches flows cannot be reduced cyclists should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees through on-road cycle lanes, hybrid tracks and off-oad provision. Such seigeraption should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions.	12. Segregation to reduce risk of collision alongside or from behind	Cyclists sharing carriageway – nearside lane in critical range between 3.2m and 3.9m wide and traffic volumes prevent motor vehicles moving easily into opposite lane to pass cyclists.	Cyclists in unrestricted traffic lanes outside critical range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	Cyclists in cycle lanes at least 1.8m wide on-carriageway; 85th percentile motor traffic speed max 30mph.	Cyclists on route away from motor traffic (off road provision) or in offcarriageway cycle track. Cyclists in hybridlight segregated track; 85th percentile motor traffic speed max 30mph.	1	
		Invoking cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision. Junction treatments include: Minor/side roads – cyclist priority and/or speed reduction across side roads Major roads – separation of cyclists from motor traffic through junctions.	13. Conflicting movements at junctions		Side road junctions frequent and/ or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	Side road junctions infrequent and with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	Side roads closed or treated to blend in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
	Avoid complex design	Avoid complex designs which require users to process large amounts of information. Good network design should be self-explanatory and selfewident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		Faded, old, unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	1	
	Consider and reduce risk from kerbside activity	Routes should be assessed in terms of all multi-functional uses of a street including car parking, bus stops, parking, including collision with opened door.	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or less (including any buffer) alongside parking/loading	Significant conflict with kerbside activity (eg nearside cycle lane < 2m (including buffer) wide alongside kerbside parking)	Some conflict with kerbside activity – eg less frequent activity on nearside of cyclists, min 2m cycle lanes including buffer.	No/very limited conflict with kerbside activity or width of cycle lane including buffer exceeds 3m.	1	
	Reduce severity of collisions where they do occur	Wherever possible routes should include "evasion room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrail, build outs, etc. to reduce the severity of a collision should it occur.	16. Evasion room and unnecessary hazards		Cyclists at risk of being trapped by physical hazards along more than half of the route.	The number of physical hazards could be further reduced	The route includes evasion room and avoids any physical hazards.	1	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ guilles, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	0	
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		Any bumpy, unbound, slippery, and potentially hazardous surface.	Hand-laid materials, concrete paviours with frequent joints.	smooth and non-slip surface – eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	0	
omfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	19. Desirable minimum widths according to volume of cyclists and route type (where cyclists are separated from motor vehicles).		More than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum values.	No more than 25% of the route includes cycle provision with widths which are no more than 25% below desirable minimum	Recommended widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to maps. Routes should be appealing	20. Signing		Route signing is poor with signs missing at key decision points	Gaps identified in route signing which could be improved	Route is well signed with signs located at all decision points and junctions	0	
	Social safety and perceived vulnerability of user	and be perceived as safe and usable. Well used, well maintained, lit, overlooked routes are more attractive and therefore more likely to be used.	21. Lighting		Most or all of route is unlit	Short and infrequent unlit/ poorly lit sections	Route is lit to highway standards throughout	0	
			22. Isolation		Route is generally away from activity	Route is mainly overlooked and is not far from activity throughout its length	Route is overlooked throughout its length	0	
uttractiveness	Impact on pedestrians, including people with disabilities	Introduction of dedicated on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	23. Impact on pedestrians, Pedestrian Comfort Level based on Pedestrian Comfort guide for London (Section 6.1)		Route impacts negatively on pedestrian provision, Pedestrian Comfort is at Level C or below	No impact on pedestrian provision or Pedestrian Comfort Level remains at B or above.	Pedestrian provision enhanced by cycling provision, or Pedestrian Comfort Level remains at A	1	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	1	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle stands		No additional cycle parking provided or inadequate provision in insecure nonoverlooked areas	Some secure cycle parking provided but not enough to meet demand	Secure cycle parking provided, sufficient to meet demand	0	

ROUTE SUMMAR

Route Name	Route 6: Monks Walk - River Rit
Length	430n
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Comments
Actions

Append		evel of Service T							
requirement	Factor	Design principle Cyclists should be able to	1. Ability to	Critical	0 (Red)	1 (Amber)	2 (Green) Cyclists have dedicated	Score	Comments
	Connections	easily and safely join and navigate along different sections of the same route and between different routes in the network.	join/leave route safely and easily: consider left and right turns		Cyclists cannot connect to other routes without dismounting	connect to other routes with minimal disruption to their journey	connections to other routes provided, with no interruption to their journey	1	
		Routes should be complete with no gaps in provision. 'End of route' signs should not	Provision		Cyclists are 'abandoned' at	The route is made up of discrete	Custints are		
Cohesion	Continuity and Wayfinding	be installed – cyclists should be shown how the route continues. Cyclists should not be 'abandoned', particularly at junctions where provision may be required to ensure safe crossing movements.	2. Provision for cyclists throughout the whole length of the route		abandoned at points along the route with no clear indication of how to continue their journey	sections, but cyclists can clearly understand how to navigate between them, including through junctions.	Cyclists are provided with a continuous route, including through junctions	0	
		Cycle networks should provide a mesh (or grid) of	Density of routes based						
	Density of network	routes across the town or city. The density of the network is the distance between the routes which make up the grid pattern. The ultimate aim should be a network with a mesh width of 250m	on mesh width ie distances between primary and secondary routes within the network		Route contributes to a network density mesh width >1000	Route contributes to a network density mesh width 250 – 1000m	Route contributes to a network density mesh width <250m	1	
			Deviation of route Deviation						
		Routes should follow the shortest option available	Factor is calculated by dividing the actual distance		Deviation factor against straight	Deviation factor against straight	Deviation factor against straight		
	Distance	and be as near to the 'as-the-crow-flies' distance as possible.	along the route by the straight line (crow-fly) distance, or shortest road alternative.		line or shortest road alternative >1.4	line or shortest road alternative 1.2 – 1.4	line or shortest road alternative <1.2	1	
	Time:	The number of times a cyclist has to stop or loses right of way on a route should be			The number of	The number of			
Directness	Frequency of required stops or give ways	minimised. This includes stopping and give ways at junctions or crossings, motorcycle barriers, pedestrian-only zones etc	5. Stopping and give way frequency		stops or give ways on the route is more than 4 per km	stops or give ways on the route is between 2 and 4 per km	The number of stops or give ways on the route is less than 2 per km	1	
	Time: Delay at junctions	The length of delay caused by junctions should be minimised.	6. Delay at junctions		Delay for cyclists at junctions is	Delay for cyclists at junctions is	Delay is shorter than for motor	2	
		This includes assessing impact of multiple or single stage crossings, signal timings, toucan crossings etc.			greater than for motor vehicles	similar to delay for motor vehicles	vehicles or cyclists are not required to stop at junctions (eg bypass at signals)		
	Time: Delay on links	The length of delay caused by not being able to bypass slow	7. Ability to maintain own		Cyclists travel at speed of slowest	Cyclists can usually pass slow	Cyclists can always choose an	2	
	Gradients	moving traffic. Routes should avoid steep	speed on links 8. Gradient		vehicle (including a cycle) ahead Route includes	traffic and other cyclists There are no	appropriate speed. There are no	1	
		gradients where possible. Uphill sections increase time, effort and discomfort. Where			sections steeper than the gradients	sections of route steeper than the gradients	sections of route which steeper than 2%		
		these are encountered, routes should be planned to minimise climbing gradient and allow users to retain momentum gained on the descent.	9. Motor		recommended in Chapter 5	recommended in Chapter 5	Ulain Z. 70		
	Reduce/ remove speed differences where cyclists are sharing the	Where cyclists and motor vehicles are sharing the carriageway, the key to reducing severity of collisions is reducing the speeds of motor vehicles so that they more closely match that of cyclists. This is particularly	y. Moor traffic speed on approach and through junctions where cyclists are sharing the carriageway through the junction	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
	carriageway	important at points where risk of collision is greater, such as at junctions.	10. Motor traffic speed on sections of shared carriageway	85th percentile > 37mph (60kph)	85th percentile >30mph	85th percentile 20mph-30mph	85th percentile <20mph	2	
Safety	Avoid high motor traffic volumes where cyclists are sharing the carriageway	Cyclists should not be required to share the carriageway with high volumes of motor whicles. This is particularly important at points where risk of collision is greater, such as at junctions.	traffic volume on sections of shared carriageway, expressed as vehicles per peak hour	>10000 AADT, or >5% HGV	5000-10000 AADT and 2-5%HGV	2500-5000 and <2% HGV	0-2500 AADT	2	
		Where speed differences and high motor vehicle flows cannot be reduced cyclists		Cyclists sharing carriageway – nearside lane	Cyclists in	Cyclists in cycle	Cyclists on route away from motor		
		should be separated from traffic – see Figure 4.1. This separation can be achieved at varying degrees	12. Segregation to reduce risk of collision	in critical range between 3.2m and 3.9m wide	unrestricted traffic lanes outside critical	lanes at least 1.8m wide on-carriageway;	traffic (off road provision) or in offcarriageway cycle track. Cyclists	2	
		through on-road cycle lanes, hybrid tracks and off-road provision. Such segrenation	alongside or from behind	and traffic volumes prevent motor vehicles moving easily into	range (3.2m to 3.9m) or in cycle lanes less than 1.8m wide.	85th percentile motor traffic speed max 30mph.	in hybrid/light segregated track; 85th percentile		
	Risk of collision	should reduce the risk of collision from beside or behind the cyclist. A high proportion of collisions		opposite lane to pass cyclists.			motor traffic speed max 30mph.		
		involving cyclists occur at junctions. Junctions therefore need particular attention to reduce the risk of collision.			Side road junctions frequent and/	Side road junctions infrequent and with effective entry	Side roads closed or treated to blend		
		Junction treatments include: Minor/side roads — cyclist priority and/or speed reduction across side roads Major roads — separation of cyclists from motor traffic through junctions,	13. Conflicting movements at junctions		or untreated. Major junctions, conflicting cycle/ motor traffic movements not separated	with effective entry treatments. Major junctions, principal conflicting cycle/ motor traffic movements separated.	in with footway. Major junctions, all conflicting cycle/motor traffic streams separated.	1	
		Avoid complex designs which require users to process large amounts of information. Good			Faded, old,				
	Avoid complex design	network design should be self-explanatory and selfevident to all road users. All users should understand where they and other road users should be and what movements they might make	14. Legible road markings and road layout		unclear, complex road markings/ unclear or unfamiliar road layout	Generally legible road markings and road layout but some elements could be improved	Clear, understandable, simple road markings and road layout	0	
	Consider and reduce risk	Routes should be assessed in terms of all multi-functional	15. Conflict with kerbside activity	Narrow cycle lanes <1.5m or	Significant conflict with	Some conflict with kerbside	No/very limited conflict with		
	from kerbside activity	uses of a street including car parking, bus stops, parking, including collision with opened		less (including any buffer) alongside parking/loading	kerbside activity (eg nearside cycle lane < 2m	activity – eg less frequent activity on nearside of	kerbside activity or width of cycle lane including buffer	0	
		door.			(including buffer) wide alongside kerbside parking)	cyclists, min 2m cycle lanes including buffer.	exceeds 3m.		
	Reduce severity of	Wherever possible routes should include "evasion	16. Evasion room and		Cyclists at risk of being trapped by	The number of physical hazards	The route includes evasion room		
	collisions where they do occur	room" (such as grass verges) and avoid any unnecessary physical hazards such as guardrali, build outs, etc. to reduce the severity of a collision should it occur.	unnecessary hazards		physical hazards along more than half of the route.	could be further reduced	and avoids any physical hazards.	0	
	Surface quality	Density of defects including non cycle friendly ironworks, raised/sunken covers/ gullies, potholes, poor quality carriageway paint (eg from previous cycle lane)	17. Major and minor defects		Numerous minor defects or any number of major defects	Minor and occasional defects	Smooth high grip surface	0	
					Any bumpy,	Hand-laid	Machine laid smooth and non-slip surface – eg Thin Surfacing,		
		Pavement or carriageway construction providing smooth and level surface	18. Surface type		unbound, slippery, and potentially hazardous surface.	materials, concrete paviours with frequent joints.	eg Thin Surfacing, or firm and closelyjointed blocks undisturbed by turning heavy vehicles.	0	
		Cyclists should be able to	19. Desirable minimum widths according to volume of		More than 25% of the route includes cycle	No more than 25% of the route includes cycle	Recommended		
Comfort	Effective width without conflict	Cyclists should be able to comfortably cycle without risk of conflict with other users both on and off road.	to volume of cyclists and route type (where cyclists are separated from motor vehicles).		provision with widths which are no more than 25% below desirable minimum values.	provision with widths which are no more than 25% below desirable minimum	widths are maintained throughout whole route	1	
	Wayfinding	Non-local cyclists should be able to navigate the routes without the need to refer to	20. Signing		Route signing is poor with signs missing at key	Gaps identified in route signing which could be	Route is well signed with signs located at all	0	
	Social safety and perceived vulnerability of	maps. Routes should be appealing and be perceived as safe and usable. Well used, well maintained, lit, overlooked	21. Lighting		decision points Most or all of route is unlit	Short and	decision points and junctions Route is lit to highway standards	0	
	user	routes are more attractive and therefore more likely to be used.			Route is	Route is mainly overlooked and	Route is overlooked		
		Introduction of dedicated	22. Isolation		generally away from activity	is not far from activity throughout its length	overlooked throughout its length	0	
	Impact on pedestrians,	on-road cycle provision can enable people to cycle on-road rather than using footways which are not suitable for	23. Impact on pedestrians, Pedestrian Comfort Level		Route impacts negatively on pedestrian	No impact on pedestrian provision or	Pedestrian provision enhanced by		
Attractiveness	pedestrains, including people with disabilities	shared use. Introducing cycling onto well used footpaths may reduce the quality of provision for both users, particularly if the shared use path does not meet recommended widths.	based on Pedestrian Comfort guide for London (Section 6.1)		provision, Pedestrian Comfort is at Level C or below	Pedestrian Comfort Level remains at B or above.	cycling provision, or Pedestrian Comfort Level remains at A	0	
	Minimise street clutter	Signing required to support scheme layout	24. Signs informative and consistent but not overbearing or of inappropriate size		Large number of signs needed, difficult to follow and/ or leading to clutter	Moderate amount of signing particularly around junctions.	Signing for wayfinding purposes only and not causing additional obstruction.	0	
	Secure cycle parking	Ease of access to secure cycle parking within businesses and on-street	25. Evidence of bicycles parked to street furniture or cycle		No additional cycle parking provided or inadequate provision in insecure	Some secure cycle parking provided but not enough to meet	Secure cycle parking provided, sufficient to meet demand	0	
			stands		nonoverlooked areas	demand	Audit Score Total	19	

ROUTE SUMMAP

Route Name	Route 7: A10 - Aspenden Road
Length	380n
of Assessor(s)	Helen Panfilova
of Assessment	05 September 2023

Comments Actions



TECHNICAL NOTE 1

DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West AUTHOR: Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex C.2

WALKING ROUTE AUDIT TOOL

Route name	Total Score	Score %
Route 1a: Knights CI - Luynes Rise - Aspenden Road	26	65%
Route 1b: Knights CI - Luynes Rise - Aspenden Road	14	35%
Route 2a: Baldock Road - Freman College	21	53%
Route 2b: Baldock Road - Bowling Green Lane	27	68%
Route 3a: Luynes Rise - High Street	29	73%
Route 3b: Knights CI - Luynes Rise	29	73%
Route 4a: Oak End - Layton First School	21	53%
Route 4b: Monks Walk - Baldock Road	26	65%
Route 5: Oak End - River Rib	29	73%
Route 6: Monks Walk - River Rib	26	65%
Route 7: A10 - Aspenden Road	16	40%
	25	50%

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments	Actions
1. ATTRACTIVENESS - maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	2		
2. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	1		
B. ATTRACTIVENESS traffic noise and pollution	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	2		
. ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not presen - Temporary features affecting the at - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	(s).	1		
ATTRACTIVENESS				6		
. COMFORT	Footways level and in good	Some defects noted, typically	Large number of footway crossovers	1		
condition	condition, with no trip hazards.	isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.			
6. COMFORT · footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1		
7. COMFORT · width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1		
3. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1		
9. COMFORT	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	1		
gradient 10.COMFORT	Examples of 'other' comfort issues in	1 1	12).	1		
- other	- Barriers/gates restricting access; ar - Bus shelters restricting clearance w					
COMFORT				6		
11.DIRECTNESS - footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	1		
2.DIRECTNESS location of crossings in relation to desire	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	1		
ines 13.DIRECTNESS gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	1		
14.DIRECTNESS impact of controlled crossings on journey ime	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	1		
5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2		
16.DIRECTNESS - other	Examples of 'other' directness issues - Routes to/from bus stops not accon - Steps restricting access for all user - Confusing layout for pedestrians cro	s include: nmodated; s;	press connectably.	1		
DIRECTNESS				7		
7.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic	2		
18.SAFETY traffic speed	Traffic speeds low, or pedestrians can keep distance from moderate traffic speeds.	Traffic speeds moderate and pedestrians in close proximity.	High traffic speeds, with pedestrians unable to keep their distance from traffic.	2		
19.SAFETY · visibility	Good visibility for all users.	Visibility could be somewhat improved but unlikely to result in collisions.	Poor visibility, likely to result in collisions.	2		
SAFETY		Constitution.		6		
20. COHERENCE dropped kerbs and tactile paving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	1		
COHERENCE				1		

Route Name	Route 1: Knights Cl - Luynes Rise - Aspenden Road
Length	960m
Name of Assessor(s)	Helen Panfilova
Data of Assessment	05 September 2022

Criterion	Performance Scores
Attractiveness	6
Comfort	(
Directness	
Safety	(
Coherence	1
Total	26

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
1. ATTRACTIVENESS - maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	0	
2. ATTRACTIVENESS - fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	1	
3. ATTRACTIVENESS • traffic noise and pollution	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
4. ATTRACTIVENESS	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the att - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	s).	1	
ATTRACTIVENESS				3	
5. COMFORT condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
6. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
7. COMFORT - width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
8. COMFORT - footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
9. COMFORT - gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	1	
0.COMFORT other	- Barriers/gates restricting access; ar - Bus shelters restricting clearance w	clearance width for pedestrians (e.g. drand		1	
COMFORT				6	
I1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	1	
2.DIRECTNESS location of crossings in relation to desire ines	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	1	
13.DIRECTNESS gaps in traffic (where no controlled crossings present or if likely to cross butside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	0	
14.DIRECTNESS impact of controlled crossings on journey ime	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	0	
15. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	0	
16.DIRECTNESS - other	Examples of 'other' directness issues include: - Routes to/from bus stops not accommodated; - Steps restricting access for all users; - Confusing layout for pedestrians creating severance issues for users.			0	
DIRECTNESS				2	
17.SAFETY - traffic volume	Traffic volume low, or pedestrians can keep distance from moderate	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic	1	
8.SAFETY traffic speed	Traffic speeds low, or pedestrians can keep distance from moderate traffic speeds.	Traffic speeds moderate and pedestrians in close proximity.	High traffic speeds, with pedestrians unable to keep their distance from traffic.	1	
19.SAFETY - visibility	Good visibility for all users.	Visibility could be somewhat improved but unlikely to result in collisions.	Poor visibility, likely to result in collisions.	1	
SAFETY				3	
20. COHERENCE - dropped kerbs and tactile paving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	0	
an opposition and taken parting		otariadi do.			
COHERENCE				0	

Route Name	Route 1: Knights CI - Luynes Rise - Aspenden Road
Length	960m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	
Comfort	•
Directness	
Safety	
Coherence	
Total	14

Comments	
Actions	

- maintenance 2. ATTRACTIVENESS - fear of crime 3. ATTRACTIVENESS - traffic noise and 4. ATTRACTIVENESS - other ATTRACTIVENESS 5. COMFORT - condition 6. COMFORT - footway width	gnificant issues noted. To evidence of vandalism with propropriate natural surveillance. Traffic noise and pollution do not ffect the attractiveness issue is evidence that lighting is not present. Temporary features affecting the attractivenes of guardrail or bollard evidence that lighting is not present. Temporary features affecting the attractivenes are of guardrail or bollard evidence that lighting is not present. Temporary features affecting the attractivenes of guardrail or bollard evidence is onto the properties of guardrail or bollard evidence is onto a commodate all users it hout 'give and take' between sers or walking on roads. Widths	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street). Levels of traffic noise and/or pollution could be improved uses include: or is deficient; activeness of routes (e.g. refuse sack is set of the sack	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair. Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate). Severe traffic pollution and/or severe traffic noise s). Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on	2 1 2 0 5 1	Insufficient lighting Excessive use of guardrail or bollards
- fear of crime ap 3. ATTRACTIVENESS Trace and afficient afficien	raffic noise and pollution do not ffect the attractiveness xamples of 'other' attractiveness issuevidence that lighting is not present, Temporary features affecting the attrexcessive use of guardrail or bollard cootways level and in good condition, with no trip hazards. ble to accommodate all users ithout 'give and take' between sers or walking on roads. cootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	frontage and natural surveillance (e.g. houses set back or back onto street). Levels of traffic noise and/or pollution could be improved Jes include: or is deficient; activeness of routes (e.g. refuse sack is Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate). Severe traffic pollution and/or severe traffic noise Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	2 0 5 1	Insufficient lighting Excessive use of guardrail or bollards
- traffic noise and aff 4. ATTRACTIVENESS - other Example 1	ffect the attractiveness xamples of 'other' attractiveness isst Evidence that lighting is not present, Temporary features affecting the attr Excessive use of guardrail or bollard ootways level and in good ondition, with no trip hazards. ble to accommodate all users ithout 'give and take' between sers or walking on roads. ootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	pollution could be improved uses include: or is deficient; activeness of routes (e.g. refuse sack is Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	5	Insufficient lighting Excessive use of guardrail or bollards
4. ATTRACTIVENESS - other ATTRACTIVENESS 5. COMFORT - condition 6. COMFORT - footway width About the second condition cond	xamples of 'other' attractiveness issue Evidence that lighting is not present. Temporary features affecting the attrexcessive use of guardrail or bollard cootways level and in good condition, with no trip hazards. ble to accommodate all users ithout 'give and take' between sers or walking on roads. cootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	5	use of guardrail or bollards
- other - E - T - T - E ATTRACTIVENESS 5. COMFORT - condition - CO 6. COMFORT - footway width - William - Good	Temporary features affecting the attr Excessive use of guardrail or bollard contways level and in good condition, with no trip hazards. ble to accommodate all users ithout 'give and take' between sers or walking on roads. cotway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	1	
- condition co	ble to accommodate all users ithout 'give and take' between sers or walking on roads. ootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	1	
- condition co	ble to accommodate all users ithout 'give and take' between sers or walking on roads. ootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users	0	
- footway width with us Fo of	ithout 'give and take' between sers or walking on roads. ootway widths generally in excess f 2m. ble to accommodate all users ithout 'give and take' between sers or walking on roads. Widths	approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	(i.e. standard wheelchair width). Limited footway width requires users	0	
	ithout 'give and take' between sers or walking on roads. Widths		roads and/or results in crowding/delay.		
- width on staggered crossings/	enerally in excess of 2m to ccommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	0	
		Clearance widths between	Clearance widths less than 1.5m.	0	
ge	enerally in excess of 2m between ermanent obstructions.	approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.		
9. COMFORT		Slopes exist but gradients do not	Gradients exceed 8 per cent (1 in	2	
- gradient 10.COMFORT Ex	xamples of 'other' comfort issues inc	exceed 8 per cent (1 in 12).	12).	1	
- other - T	Temporary obstructions restricting cl Barriers/gates restricting access; and Bus shelters restricting clearance wid	earance width for pedestrians (e.g. dr d		,	
COMFORT				4	
- footway provision	edestrian desire lines (e.g.	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	1	
12.DIRECTNESS - location of crossings in	rossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	1	
- gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled		Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
	elican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	2	
IO. DITTEGO	ength to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	1	
- other - F	xamples of 'other' directness issues Routes to/from bus stops not accomi Steps restricting access for all users Confusing layout for pedestrians crea	include: modated; ;		0	
DIRECTNESS				7	
- traffic volume	raffic volume low, or pedestrians an keep distance from moderate affic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	2	
_		Traffic speeds moderate and	High traffic speeds, with pedestrians	2	
19.SAFETY GG	lood visibility for all users.	Visibility could be somewhat	Poor visibility, likely to result in	<u>1</u> 5	
	aving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.		dropped kerbs but no tactile at crossing point
COHERENCE				0	
			Total Score	21	

Route Name	Route 2a: Baldock Road - Freman College
Length	600m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	5
Comfort	4
Directness	7
Safety	5
Coherence	0
Total	21

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
1. ATTRACTIVENESS - maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	1	
2. ATTRACTIVENESS - fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	1	
3. ATTRACTIVENESS - traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	2	
4. ATTRACTIVENESS - other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the att - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	(s).	1	Insufficient lighting and no natural surveillance, width 1m
ATTRACTIVENESS				5	
5. COMFORT - condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	2	There are unexpected holes in the ground
6. COMFORT - footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	Footway width less than 1.5m
7. COMFORT - width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
8. COMFORT - footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	2	
9. COMFORT	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
- gradient 10.COMFORT - other	Barriers/gates restricting access; arBus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd		1	
COMFORT				9	
11.DIRECTNESS - footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	2	
12.DIRECTNESS - location of crossings in relation to desire lines	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	2	
13.DIRECTNESS - gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	1	
14.DIRECTNESS - impact of controlled crossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	1	
15. DIRECTNESS - green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2	
16.DIRECTNESS - other	Examples of 'other' directness issues - Routes to/from bus stops not accom - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
DIRECTNESS				9	
17.SAFETY - traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	1	
18.SAFETY 19.SAFETY SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	1 1 3	
20. COHERENCE - dropped kerbs and tactile paving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	1	
COHERENCE				1	
			Total Score	27	

Route Name	Route 2b: Baldock Road - Bowling Green Lane
Length	190m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	5
Comfort	9
Directness	9
Safety	3
Coherence	1
Total	27

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	2	
2. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
B. ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
I. ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the att - Excessive use of guardrail or bollar	ues include: i, or is deficient; tractiveness of routes (e.g. refuse sack	(S).	1	
ATTRACTIVENESS				6	
5. COMFORT - condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
6. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
7. COMFORT - width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
3. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
9. COMFORT - gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
10.COMFORT - other	Barriers/gates restricting access; arBus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd		1	
COMFORT				7	
11.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	2	
12.DIRECTNESS I location of crossings in relation to desire lines	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	2	
13.DIRECTNESS - gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
14.DIRECTNESS - impact of controlled crossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	2	
I5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2	
I6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accorr - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
DIRECTNESS				11	
17.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	2	
18.SAFETY 19.SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	1	
SAFETY	, 250.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	
20. COHERENCE dropped kerbs and tactile paving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	1	
COHERENCE				1	
			Total Score	29	

Route Name	Route 3: Luynes Rise - High Street
Length	708m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	6
Comfort	7
Directness	11
Safety	4
Coherence	1
Total	29

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	2	
2. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
B. ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
I. ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the att - Excessive use of guardrail or bollar	ues include: i, or is deficient; tractiveness of routes (e.g. refuse sack	(S).	1	
ATTRACTIVENESS				6	
5. COMFORT - condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
6. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
7. COMFORT - width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
3. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
9. COMFORT - gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
10.COMFORT - other	Barriers/gates restricting access; arBus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd		1	
COMFORT				7	
11.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	2	
12.DIRECTNESS I location of crossings in relation to desire lines	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	2	
13.DIRECTNESS - gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
14.DIRECTNESS - impact of controlled crossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	2	
I5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2	
I6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accorr - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
DIRECTNESS				11	
17.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	2	
18.SAFETY 19.SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	1	
SAFETY	, 250.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	
20. COHERENCE dropped kerbs and tactile paving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	1	
COHERENCE				1	
			Total Score	29	

Route Name	Route 3b: Knights CI - Luynes Rise
Length	230m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	6
Comfort	7
Directness	11
Safety	4
Coherence	1
Total	29

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
. ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	2	
. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
. ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
. ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the att - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	(S).	1	
TTRACTIVENESS				6	
condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT width on staggered rossings/ redestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
. COMFORT gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	1	
0.COMFORT other	Examples of 'other' comfort issues include: - Temporary obstructions restricting clearance width for pedestrians (e.g. driveway gates opened into footway); - Barriers/gates restricting access; and - Bus shelters restricting clearance width Poorly drained footways resulting in noticeable ponding issues/slippery surfaces			1	
COMFORT				6	
1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g.	Footway provision could be improved to better cater for	Footways are not provided to cater for pedestrian desire lines.	1	
2.DIRECTNESS location of crossings in	adjacent to road). Crossings follow desire lines.	pedestrian desire lines. Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	1	
elation to desire lines 3.DIRECTNESS gaps in traffic (where no controlled crossings present or if likely to crossoutside of controlled	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	1	
rossing) 4.DIRECTNESS impact of controlled crossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	1	
5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	1	
6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accor - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
DIRECTNESS	T. (f)	T (6)		6	
7.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	0	
8.SAFETY 9.SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	1	
SAFETY				2	
COHERENCE dropped kerbs and tactile aving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	1	
				1	
COHERENCE				<u> </u>	

Route Name	Route 4a: Oak End - Layton First School
Length	1190m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	6
Comfort	6
Directness	6
Safety	2
Coherence	1
Total	21

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
. ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	2	
ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	2	
ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the at - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	rs).	1	
TTRACTIVENESS				7	
. COMFORT condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	2	
/. COMFORT width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	2	
. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
. COMFORT gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
0.COMFORT other	Barriers/gates restricting access; arBus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd	, , , , , , , , , , , , , , , , , , , ,	1	
OMFORT				9	
1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	0	
2.DIRECTNESS location of crossings in	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	0	
elation to desire lines 3.DIRECTNESS gaps in traffic (where no controlled crossings cresent or if likely to cross cutside of controlled crossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
4.DIRECTNESS impact of controlled rossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	0	
5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	0	
6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accon - Steps restricting access for all user - Confusing layout for pedestrians cro	s include: nmodated; s;		2	
IRECTNESS				4	
7.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from	2	
8.SAFETY	traffic volumes. Traffic speeds low, or pedestrians	Traffic speeds moderate and	traffic. High traffic speeds, with pedestrians	1	
9.SAFETY	Good visibility for all users.	Visibility could be somewhat	Poor visibility, likely to result in	1	
SAFETY	Adamata	December 1	Description	4	
0. COHERENCE dropped kerbs and tactile aving	Adequate dropped kerb and tactile paving provision.	Dropped kerbs and tactile paving provided, albeit not to current standards.	Dropped kerbs and tactile paving absent or incorrect.	2	
COHERENCE				2	
			Total Score	26	

Route Name	Route 4b: Monks Walk - Baldock Road
Length	380m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	7
Comfort	9
Directness	4
Safety	4
Coherence	2
Total	26

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
. ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	1	
. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
. ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	2	
. ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not present - Temporary features affecting the attractive the component of	t, or is deficient; tractiveness of routes (e.g. refuse sack	(S).	1	
TTRACTIVENESS				6	
. COMFORT condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT width on staggered rossings/ edestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
. COMFORT gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
0.COMFORT other	- Barriers/gates restricting access; ar - Bus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd		1	
OMFORT				7	
1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g.	Footway provision could be improved to better cater for	Footways are not provided to cater for pedestrian desire lines.	2	
2.DIRECTNESS location of crossings in	adjacent to road). Crossings follow desire lines.	pedestrian desire lines. Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	2	
elation to desire lines 3.DIRECTNESS gaps in traffic (where no ontrolled crossings resent or if likely to cross utside of controlled	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
rossing) 4.DIRECTNESS impact of controlled crossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	2	
5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2	
6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accon - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
DIRECTNESS	T. (f)	T. (f)		11	
7.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	2	
8.SAFETY 9.SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	2	
AFETY	Code violently for all addition	The sound be define what	. 331 Hololity, likely to 163ult III	5	
	Adequate dropped kerb and tactile	Dropped kerbs and tactile paving	Dropped kerbs and tactile paving absent or incorrect.	0	
0. COHERENCE dropped kerbs and tactile aving	I	provided, albeit not to current standards.	absent of incorrect.		
dropped kerbs and tactile	I	,	absent of incorrect.	0	

Route Name	Route 8: Oak End - River Rib
Length	570m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 Sentember 2023

Criterion	Performance Scores
Attractiveness	6
Comfort	7
Directness	11
Safety	5
Coherence	0
Total	29

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
. ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	Minor littering. Overgrown vegetation. Street furniture falling into minor disrepair (for example, peeling paint).	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	1	
ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	Minor vandalism. Lack of active frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
ATTRACTIVENESS traffic noise and	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
ATTRACTIVENESS other	Examples of 'other' attractiveness iss - Evidence that lighting is not presen' - Temporary features affecting the at - Excessive use of guardrail or bollar	t, or is deficient; tractiveness of routes (e.g. refuse sack	(s).	1	
TTRACTIVENESS				5	
. COMFORT condition	Footways level and in good condition, with no trip hazards.	Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven surface.	Large number of footway crossovers resulting in uneven surface, subsided or fretted pavement, or significant uneven patching or trenching.	1	
. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths generally in excess of 2m.	Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT width on staggered rossings/ edestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to accommodate wheel-chair users.	Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads.	Widths of less than 1.5m (i.e. standard wheelchair width). Limited width requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay.	1	
. COMFORT footway parking	No instances of vehicles parking on footways noted. Clearance widths generally in excess of 2m between permanent obstructions.	Clearance widths between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some deviation from desire lines.	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	1	
. COMFORT gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	2	
0.COMFORT other	- Barriers/gates restricting access; ar - Bus shelters restricting clearance w	clearance width for pedestrians (e.g. d nd		1	
COMFORT				7	
1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent to road).	Footway provision could be improved to better cater for pedestrian desire lines.	Footways are not provided to cater for pedestrian desire lines.	1	
2.DIRECTNESS location of crossings in	Crossings follow desire lines.	Crossings partially diverting pedestrians away from desire lines.	Crossings deviate significantly from desire lines.	1	
elation to desire lines 3.DIRECTNESS gaps in traffic (where no ontrolled crossings resent or if likely to cross utside of controlled rossing)	Crossing of road easy, direct, and comfortable and without delay (< 5s average).	Crossing of road direct, but associated with some delay (up to 15s average).	Crossing of road associated indirect, or associated with significant delay (>15s average).	2	
4.DIRECTNESS impact of controlled rossings on journey time	Crossings are single phase pelican/puffin or zebra crossings.	Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island.	Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island.	2	
5. DIRECTNESS green man time	Green man time is of sufficient length to cross comfortably.	Pedestrians would benefit from extended green man time but current time unlikely to deter users.	Green man time would not give vulnerable users sufficient time to cross comfortably.	2	
6.DIRECTNESS other	Examples of 'other' directness issues - Routes to/from bus stops not accon - Steps restricting access for all user - Confusing layout for pedestrians cre	nmodated; s;		1	
IRECTNESS	Traffic and the state of the st	T-E-	High traffic	9	
7.SAFETY traffic volume	Traffic volume low, or pedestrians can keep distance from moderate traffic volumes.	Traffic volume moderate and pedestrians in close proximity.	High traffic volume, with pedestrians unable to keep their distance from traffic.	2	
8.SAFETY 9.SAFETY	Traffic speeds low, or pedestrians Good visibility for all users.	Traffic speeds moderate and Visibility could be somewhat	High traffic speeds, with pedestrians Poor visibility, likely to result in	2	
AFETY			,,	5	
	Adequate dropped kerb and tactile	Dropped kerbs and tactile paving	Dropped kerbs and tactile paving absent or incorrect.	0	
0. COHERENCE dropped kerbs and tactile paving	paving provision.	provided, albeit not to current standards.			
dropped kerbs and tactile	paving provision.	[· · · · · · · · · · · · · · · · · · ·		0	

Route Name	Route 6: Monks Walk - River Rib
Length	430m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	5
Comfort	7
Directness	9
Safety	5
Coherence	0
Total	26

Comments	
Actions	

Audit Categories	2 (Green)	1 (Amber)	0 (Red)	Score	Comments
. ATTRACTIVENESS maintenance	Footways well maintained, with no significant issues noted.	into minor disrepair (for example,	Littering and/or dog mess prevalent. Seriously overgrown vegetation, including low branches. Street furniture falling into major disrepair.	0	
. ATTRACTIVENESS fear of crime	No evidence of vandalism with appropriate natural surveillance.	frontage and natural surveillance (e.g. houses set back or back onto street).	Major or prevalent vandalism. Evidence of criminal/antisocial activity. Route is isolated, not subject to natural surveillance (including where sight lines are inadequate).	2	
. ATTRACTIVENESS	Traffic noise and pollution do not affect the attractiveness	Levels of traffic noise and/or pollution could be improved	Severe traffic pollution and/or severe traffic noise	1	
traffic noise and . ATTRACTIVENESS	Examples of 'other' attractiveness iss	sues include:		0	
other	Evidence that lighting is not present, Temporary features affecting the att Excessive use of guardrail or bollard.	tractiveness of routes (e.g. refuse sack	:s).		
TTRACTIVENESS				3	
i. COMFORT condition	Footways level and in good condition, with no trip hazards. Some defects noted, typically isolated (such as trenching or patching) or minor (such as cracked, but level pavers). Defects unlikely to result in trips or difficulty for wheelchairs, prams etc. Some footway crossovers resulting in uneven patching or trenching.		0		
s. COMFORT footway width	Able to accommodate all users without 'give and take' between users or walking on roads. Footway widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads. Footway widths of less than 1.5m (i.e. standard wheelchair width). Limited footway width requires user between users and walking on roads.		(i.e. standard wheelchair width). Limited footway width requires users to 'give and take' frequently, walk on	0	
7. COMFORT width on staggered crossings/ pedestrian islands/refuges	Able to accommodate all users without 'give and take' between users or walking on roads. Widths generally in excess of 2m to Widths of between approximately 1.5m and 2m. Occasional need for 'give and take' between users and walking on roads. Widths of less than 1.5m (i.e. standard wheelchair width). Limi width requires users to 'give and take' frequently, walk on roads		standard wheelchair width). Limited width requires users to 'give and	0	
generally in excess of 2m between permanent obstructions.		Occasional need for 'give and take' between users and walking on roads due to footway parking. Footway parking causes some	Clearance widths less than 1.5m. Footway parking requires users to 'give and take' frequently, walk on roads and/or results in crowding/delay. Footway parking causes significant deviation from desire lines.	0	
. COMFORT gradient	There are no slopes on footway.	Slopes exist but gradients do not exceed 8 per cent (1 in 12).	Gradients exceed 8 per cent (1 in 12).	0	
IO.COMFORT other	- Barriers/gates restricting access; ar - Bus shelters restricting clearance wi	clearance width for pedestrians (e.g. dri nd		0	
COMFORT				0	
1.DIRECTNESS footway provision	Footways are provided to cater for pedestrian desire lines (e.g. adjacent	Footway provision could be improved to better cater for pedestrian desire	Footways are not provided to cater for pedestrian desire lines.	2	
2.DIRECTNESS location of crossings in	to road). Crossings follow desire lines.		Crossings deviate significantly from desire lines.	2	
elation to desire lines	Crossing of road easy, direct, and	Crossing of road direct, but	Crossing of road associated indirect,	2	
gaps in traffic (where no controlled crossings present or if likely to cross outside of controlled	comfortable and without delay (< 5s average).	associated with some delay (up to	or associated with significant delay (>15s average).	2	
gaps in traffic (where no controlled crossings resent or if likely to cross outside of controlled crossing) 4.DIRECTNESS impact of controlled		associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time.	or associated with significant delay	0	
gaps in traffic (where no controlled crossings resent or if likely to cross outside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS	average). Crossings are single phase	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to		
gaps in traffic (where no ontrolled crossings resent or if likely to cross outside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. sinclude:	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to	0	
gaps in traffic (where no ontrolled crossings resent or if likely to cross utside of controlled rossing) 4.DIRECTNESS impact of controlled rossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not according to the stops restricting access for all users	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. sinclude:	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to	0	
gaps in traffic (where no ontrolled crossings resent or if likely to cross sutside of controlled rossing) 4.DIRECTNESS impact of controlled rossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not according to the stops restricting access for all users	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. include: inc	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to	0 1 2	
gaps in traffic (where no ontrolled crossings resent or if likely to cross sutside of controlled rossing) 4.DIRECTNESS impact of controlled rossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other DIRECTNESS 7.SAFETY traffic volume 8.SAFETY	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not accom - Steps restricting access for all users - Confusing layout for pedestrians cre Traffic volume low, or pedestrians can keep distance from moderate	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. include: nmodated; s; pating severance issues for users. Traffic volume moderate and pedestrians in close proximity. Traffic speeds moderate and pedestrians in close proximity.	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to cross comfortably. High traffic volume, with pedestrians unable to keep their distance from	0 1 2 9	
gaps in traffic (where no ontrolled crossings bresent or if likely to cross butside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other DIRECTNESS 7.SAFETY traffic volume 8.SAFETY traffic speed 9.SAFETY visibility	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not accom - Steps restricting access for all users - Confusing layout for pedestrians cre Traffic volume low, or pedestrians can keep distance from moderate traffic volumes. Traffic speeds low, or pedestrians can keep distance from moderate	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. Include: Inc	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to cross comfortably. High traffic volume, with pedestrians unable to keep their distance from traffic. High traffic speeds, with pedestrians unable to keep their distance from	0 1 2 9 1	
gaps in traffic (where no controlled crossings bresent or if likely to cross butside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other DIRECTNESS 7.SAFETY traffic volume 8.SAFETY traffic speed 9.SAFETY visibility 6AFETY	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not accorded to stop of the stop	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. Include: Inc	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to cross comfortably. High traffic volume, with pedestrians unable to keep their distance from traffic. High traffic speeds, with pedestrians unable to keep their distance from traffic. Poor visibility, likely to result in collisions.	0 1 2 9 1 1 1	
gaps in traffic (where no controlled crossings bresent or if likely to cross butside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other DIRECTNESS 17.SAFETY traffic volume 18.SAFETY traffic speed 19.SAFETY visibility 5.AFETY 20. COHERENCE dropped kerbs and tactile	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not accord - Steps restricting access for all users - Confusing layout for pedestrians creed traffic volume low, or pedestrians can keep distance from moderate traffic speeds low, or pedestrians can keep distance from moderate traffic speeds. Good visibility for all users.	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. Include: modated; s; eating severance issues for users. Traffic volume moderate and pedestrians in close proximity. Traffic speeds moderate and pedestrians in close proximity. Visibility could be somewhat improved but unlikely to result in collisions.	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to cross comfortably. High traffic volume, with pedestrians unable to keep their distance from traffic. High traffic speeds, with pedestrians unable to keep their distance from traffic. Poor visibility, likely to result in	0 1 2 9 1	
3.DIRECTNESS gaps in traffic (where no controlled crossings or resent or if likely to cross outside of controlled crossing) 4.DIRECTNESS impact of controlled crossings on journey time 5. DIRECTNESS green man time 6.DIRECTNESS other DIRECTNESS 7.SAFETY traffic volume 8.SAFETY traffic speed 9.SAFETY visibility 6.COHERENCE dropped kerbs and tactile caving COHERENCE	average). Crossings are single phase pelican/puffin or zebra crossings. Green man time is of sufficient length to cross comfortably. Examples of 'other' directness issues - Routes to/from bus stops not accord - Steps restricting access for all users - Confusing layout for pedestrians creed traffic volume low, or pedestrians can keep distance from moderate traffic speeds low, or pedestrians can keep distance from moderate traffic speeds. Good visibility for all users.	associated with some delay (up to 15s average). Crossings are staggered but do not add significantly to journey time. Unlikely to wait >5s in pedestrian island. Pedestrians would benefit from extended green man time but current time unlikely to deter users. include: modated; s; sating severance issues for users. Traffic volume moderate and pedestrians in close proximity. Traffic speeds moderate and pedestrians in close proximity. Visibility could be somewhat improved but unlikely to result in collisions.	or associated with significant delay (>15s average). Staggered crossings add significantly to journey time. Likely to wait >10s in pedestrian island. Green man time would not give vulnerable users sufficient time to cross comfortably. High traffic volume, with pedestrians unable to keep their distance from traffic. High traffic speeds, with pedestrians unable to keep their distance from traffic. Poor visibility, likely to result in collisions.	0 1 2 9 1 1 1	

Route Name	Route 7: A10 - Aspenden Road
Length	380m
Name of Assessor(s)	Helen Panfilova
Date of Assessment	05 September 2023

Criterion	Performance Scores
Attractiveness	3
Comfort	0
Directness	9
Safety	3
Coherence	1
Total	16

Comments	
Actions	



TECHNICAL NOTE 1

DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex D

SITE REDLINE BOUNDARY SEARCH





TECHNICAL NOTE 1

DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex E

JUNCTION ASSESSMENT TOOL

Refuge Crossing

Cycle Infrastructure Design

Type of junction	Cycle movement being assessed	Suitable only for confident existing cyclists, and may be avoided by some experienced cyclists Conditions are most likely to give rise to the most common collision types Score = 0	Likely to be more acceptable to most cyclists, but may still pose problems for less confident or new cyclists The risk of collisions has been reduced by design layout or traffic management interventions Score = 1	Suitable for all potential and existing cyclists The potential for collisions has been removed, or managed to a high standard of safety for cyclists Score = 2
Roundabouts	All	a Any type of	a Compact roundabout or	a Off-carriageway
In addition "any junction"	movements	roundabout with high traffic throughput. [©] a Normal roundabout with multi-lane flared approaches.	raised mini roundabout with no more than moderate traffic throughput. ⁶⁶ a Off-carriageway cycle	cycle track with crossings of entries and exits with signals or cycle priority.
conditions		a Any type of roundabout with annular cycle lane marked on the circulatory carriageway.	track with crossings of entries and exits without cycle priority, crossing single traffic lanes with traffic flows < 4000 vehicles per day or 400 HGV/bus flow.	

⁶⁵ Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day

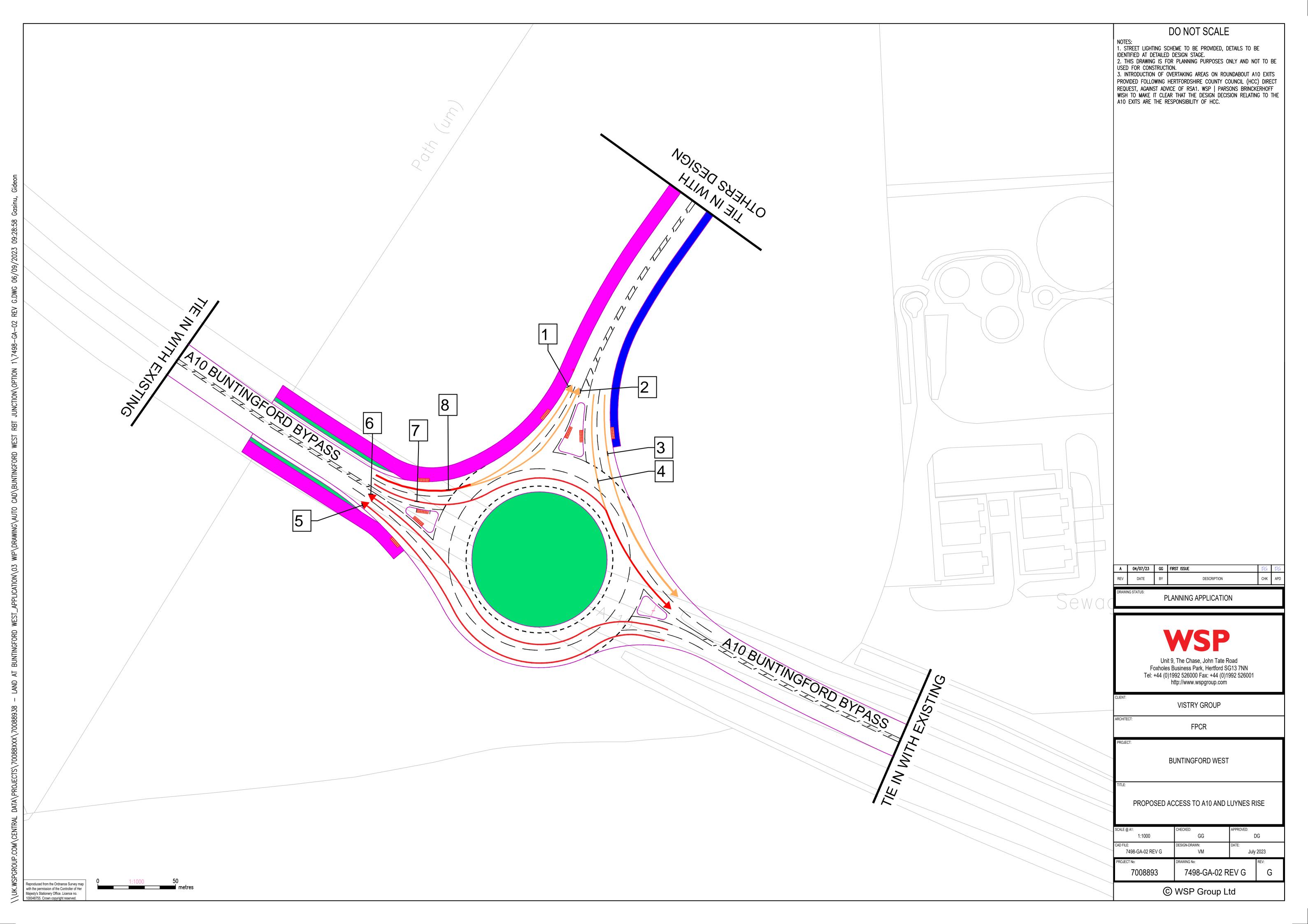
Roundabout movement

16

Max Score 16

Movement	Score	%	Comment
1	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
2	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
3	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
4	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
5	0	0%	Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day
6	0	0%	Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day
7	0	0%	Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day
8	0	0%	Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day
OVerall Score (16)	4	25%	

⁶⁶ Moderate traffic throughput: δ 8000 motor vehicles per day and/or HGV and bus flow δ 800 per day



Sparrow Crossing

Cycle Infrastructure Design

Type of junction	Cycle movement being assessed	Suitable only for confident existing cyclists, and may be avoided by some experienced cyclists Conditions are most likely to give rise to the most common collision types Score = 0	Likely to be more acceptable to most cyclists, but may still pose problems for less confident or new cyclists The risk of collisions has been reduced by design layout or traffic management interventions Score = 1 Suitable for all potential and existing cyclists The potential for collisions has been removed, or managed to a high standard of safety for cyclists Score = 2
Roundabouts	All	a Any type of	a Compact roundabout or a Off-carriageway
In addition "any junction"	movements	roundabout with high traffic throughput. ⁶⁵ a Normal roundabout with multi-lane flared approaches.	raised mini roundabout with no more than moderate traffic throughput. [®] a Off-carriageway cycle raised mini roundabout cycle track with crossings of entries and exits with signals or cycle priority.
conditions		a Any type of roundabout with annular cycle lane marked on the circulatory carriageway.	track with crossings of entries and exits without cycle priority, crossing single traffic lanes with traffic flows < 4000 vehicles per day or 400 HGV/bus flow.

⁶⁵ Heavy traffic throughput: >8000 motor vehicles per day and/or HGV and bus flow > 800 per day

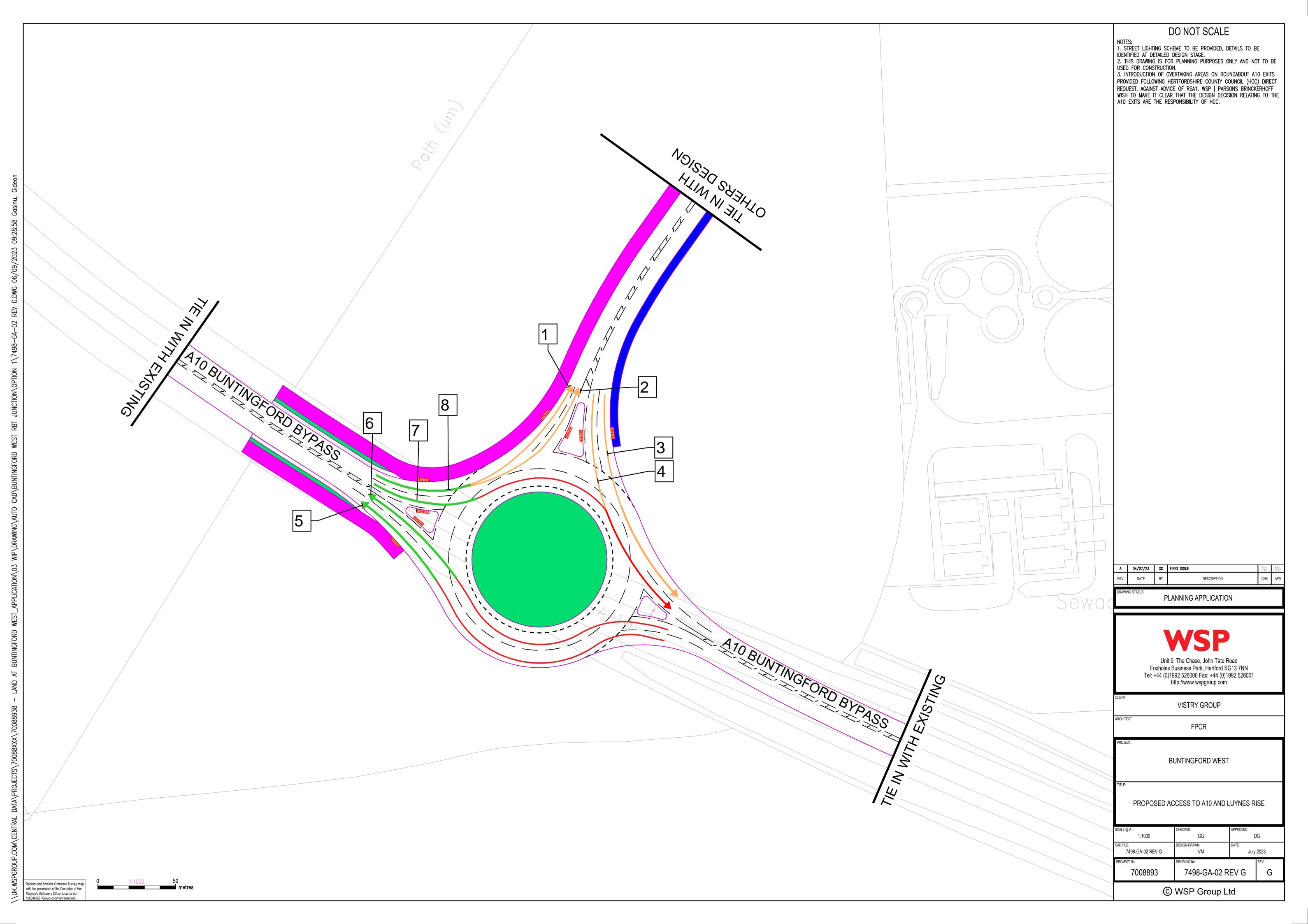
Roundabout movement

16

Max Score 16

Movement	Score	%	Comment
1	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
2	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
3	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
4	1	6%	Multilane flared approach buth with low traffic flow: Traffic flow<4000 vehicles/day and HGV <400/day.
5	2	13%	Signal and cycle priority
6	2	13%	Signal and cycle priority
7	2	13%	Signal and cycle priority
8	2	13%	Signal and cycle priority
OVerall Score (16)	12	75%	

⁶⁶ Moderate traffic throughput: δ 8000 motor vehicles per day and/or HGV and bus flow δ 800 per day





TECHNICAL NOTE 1

DATE: 15 September 2023 **CONFIDENTIALITY:** Confidential

SUBJECT: Response to Active Travel England Comments

PROJECT: 70094210 - Land at Buntingford West **AUTHOR:** Gideon G

CHECKED: Mehmet A APPROVED: Mehmet A

Annex E.1

UPDATED SITE ACCESS DESIGN

