

May 2024



Active Travel Advice Note: Infrastructure Equality Guidance

Document Control Sheet

Document Type:

Advice Note

Document Title:

Infrastructure Equality Guidance

Document No:

ATAN-2023-02

Pages:

18

Appendices:

3

Rev.	Status	Date	Author	Reviewed By	Approved By
1	Complete	01/05/2024	SMD	JS	HC

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1 Introduction

The National Transport Authority (NTA) recognises the importance of funding infrastructure that meets the needs of all members of society. The NTA are committed to equality within transport and to the elimination of all forms of discrimination as defined under the Equal Status Acts¹. The Equal Status Acts 2000-2018 ('the Acts') prohibit discrimination in the provision of goods and services, accommodation and education. The Acts cover the nine grounds of gender, marital status, family status, age, disability², sexual orientation, race, religion, and membership of the Traveller community. It is an objective of the NTA to ensure that infrastructure provided by the Authority is suitable for all needs and addresses this Act. This document seeks to provide guidance regarding equality within active travel infrastructure to assist with conforming to a transport infrastructure equality objective.

Table 1: Nine Grounds covered in the Equal Status Act

Gender	Men, women, binary, non-binary, transgender, transitioning and other gender identities, married and single people; parenting, caring, flexible working and equal pay concerns.
Civil/Marital Status	Discriminatory concerns based on less favourable treatment due to civil status of being single, married, separated or divorced, widowed, in a civil partnership or being a former civil partner in a civil partnership that has ended by death or has been dissolved.
Family Status	Including being pregnant or having responsibility as a parent or lone parent for a person under the age of 18 years or responsibility as a parent or resident primary care-taker of a person of 18 years or over with a disability requiring care or support.
Age	Children (0-16), young people (17-25), working age people (15-64) and elderly people (65 and over).
Disability	Those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others (UN CRPD).
Sexual Orientation	Impacts based on sexual orientation of heterosexual or lesbian, gay, bisexual, transgender, intersex, asexual and queer people, and persons with other sexual orientations and gender identities.
Ethnicity (Race)	People from various ethnic groups, including colour, nationality, ethnic background and national origin.
Religion	People who have a religious belief; people who are atheist or agnostic; people who have a philosophical belief which affects their view of the world or the way they live.
Membership of Traveller community	Member of the Traveller community' and identifying as people with a shared history, culture and traditions including, historically, a nomadic way of life.

¹ Equal Status Act: <https://www.irishstatutebook.ie/eli/2000/act/8/enacted/en/html>

² Disability can be defined by pain, memory issues, concentration issues, mental health status, intellectual disability, and disability related to breathing, hearing, seeing or speech.

This Infrastructure Equality Guidance aims to provide guidance for schemes funded by the NTA to ensure that development of active travel infrastructure does not adversely impact any of the nine protected characteristics listed in Table 1. This guidance intends that all stakeholders to work together collectively to ensure the equitable development active travel infrastructure.

1.1 Relevant equality issues to active travel

While it is recognised that all nine protected characteristics hold equal weight, following a screening exercise by the NTA, it has been determined that the characteristics most likely to be affected by the development of active travel infrastructure are: Gender, Family Status, Disability, Race and Age.

This is not a definitive list and NTA recognise that in certain circumstances, other characteristics may be affected and additional caution may be required to ensure an equitable outcome on all active travel schemes.

In the absence of any doubt as to whether a characteristic is affected, the screening document in Appendix A can be used for further assessment. The screening questions will be used to determine whether any of the protected characteristics are likely to experience differential and/or disproportionate effects as a result of the proposed scheme. Any characteristics that are perceived to be impacted by the proposed scheme should be further investigated.



Figure 1: School children cycling



1.2 Scope of Guidance

This document sets out guidelines to follow in order to achieve equitable infrastructure development. These guidelines are intended for use on all active travel schemes funded by the NTA which result in new construction or permanent changes to a street layout.

These guidelines are not intended as a check of compliance with design standards, nor are they concerned with structural safety.

It is important to note that it is not possible for every single street or road to meet all users' requirements, however this guidance requires that the needs of all users are considered, and where appropriate, that these needs are met. Recommendations arising from the use of this guidance should make allowance for the fact that strategic decisions on route choice and junction type reflect a balance of factors, including safety.

Figure 2: Push Button Design - Source Cambridge Cycling Campaign



2 Infrastructure Equality Guidance

This guidance presents a number of issues to be aware of when designing or upgrading an active travel scheme. This section will be presented under the protected characteristics that have been identified as being considerably likely to be impacted by the development of active travel infrastructure; gender, family status, disability, race and age.

There are a number of items to be cognisant of during the development and design of a scheme which are outlined in Table 2: Equality Issues in Infrastructure Design in Section 3. The relevant guidance documents should be referred to for design specifications.

2.1 Guiding principles for assessment

Gender: There may be issues in accessing / using active travel infrastructure for more women than men. This may be related to perception of personal and/or road safety. It may also be related to participation in active travel and representation by women within active travel.

Sexual orientation: Unfortunately, people who are part of the LGBTQ+ community may experience harassment. People from this community may avoid walking or cycling if they feel threatened.

Disability: People with a disability may find it more difficult to navigate through the street network due to infrastructure issues such as lack of dropped kerbs and tactile paving. Therefore they are more likely to be impacted by poor street design.

Age: There is evidence that age can be related to health and mobility, and a decline in physical activity and health with age is common. Therefore older people may face barriers to active travel due to safety concerns, poor infrastructure, and fear. Young people (for example children) can also be disproportionately effected by poor street design as they become 'designed out' of their environment due to high speeds, lack of segregation and unforgiving environments.

Figure 3: Wayne Wrafter, Recumbent Cyclist, Galway



Family Status: people with children may find it more difficult to travel along the street network due to deficiencies in the infrastructure for example lack of dropped kerbs making pushing a buggy difficult. In addition, women who are pregnant may require infrastructure like dropped kerbs to avoid trips.

Ethnicity: people from ethnic minority groups may be more likely to experience hate crime and harassment. Therefore if appropriate, ethnicity could be considered when examining whether the proposed infrastructure is designed with equity in mind.

Figure 4: Woman pushing a buggy



3 Design Issues Impacting Equality & Relevant Design Guidance

This section is intended to outline the common infrastructure issues experienced by people within the protected characteristics of Gender, Disability, Age and Family Status.

This table is intended to identify the common issues that are experienced, and to outline the relevant guidance that should be referred to in order to mitigate or avoid the re-occurrence of these issues. Designers should run through these questions and ensure no issues will occur due to a design oversight. Please note, in all instances, the designer should refer to IS EN: 17210: Accessibility and Usability of the Built Environment and S.R. CEN TR 17621:2021 - Functional and Technical Requirements. For a more detailed assessment refer to checklists in Appendix B and C.

Table 2: Equality Issues in Infrastructure Design

Issue	Guidance
Lack of dropped kerbs and tactile paving.	UK Guidance on the Use of Tactile Paving Surfaces
Footpath widths which are not wide enough for needs e.g. wheelchairs, child travelling alongside buggy.	Design Manual for Urban Roads and Streets
Footpath Issues: gaps in provision, condition, access, vertical separation from road or cycle lane, gradient, segregation from traffic, trip hazards, and obstructions.	Design Manual for Urban Roads and Streets Universal Design Building for Everyone
Poor footpath surface hindering wheelchair or buggy use or potentially causing trips/falls.	Design Manual for Urban Roads and Streets
Footpath obstructions e.g. poorly maintained greenery, vehicles blocking footpath, street clutter e.g. signage.	Design Manual for Urban Roads and Streets Universal Design Building for Everyone
Lack of appropriate pedestrian crossing for location, desire lines not catered for, incorrect crossing facility.	NTA Cycle Design Manual TII Standard Construction Details Series 5100
Pedestrian Crossing quality: is there an audible push button unit, is it accessible, is the crossing time sufficient, are wait times too long, is the crossing direct, correct tactile paving in place?	Building for Everyone: A Universal Design Approach TII Standard Construction Details Series 5100
Lack of segregated cycling facilities?	NTA Cycle Design Manual

Issue	Guidance
Lack of cyclist facilitation at junctions and side roads?	NTA Cycle Design Manual
Lack of cycle lanes wide enough to cycle with child alongside.	NTA Cycle Design Manual
Lack of secure bicycle parking.	NTA Cycle Design Manual
Lack of secure accessible bicycle parking for non-standard bicycles.	NTA Cycle Design Manual
Shared space without sufficient directional guidance for blind or partially sighted pedestrians.	NTA Cycle Design Manual Universal Design Shared Space Report
No space to stop and rest for those that need it.	Building for Everyone: A Universal Design Approach
Routes through isolated areas with limited or no passive surveillance or alternative exit points.	Route design choice - NTA Cycle Design Manual Design Manual for Urban Roads and Streets
Inappropriate vehicle speeds.	NTA Cycle Design Manual Design Manual for Urban Roads and Streets
Lack of, or ineffective traffic calming (required to meet design speeds).	NTA Cycle Design Manual Design Manual for Urban Roads and Streets
Guard rails restricting movements or desire lines?	Design Manual for Urban Roads and Streets
Access control measures blocking access to parks and public routes	NTA Access Control of Active Travel Facilities
Dead-ends present on routes.	NTA Permeability Best Practice Guide
No CCTV (where required).	Code of Practice for Community Based CCTV Systems
Evidence of antisocial behaviour e.g. vandalism.	Route design choice - NTA Cycle Design Manual
Reduced visibility from street clutter, overgrown trees, bushes, vegetation.	Traffic Signs Manual - NTA Cycle Design Manual , Design Manual for Urban Roads and Streets

Issue	Guidance
Lack of appropriate lighting.	NTA Cycle Design Manual Design Manual for Urban Roads and Streets TII Design of Road Lighting for the National Road Network PLG23; Lighting for Cycle Infrastructure; Institute of Lighting Professionals BS 5489-1:2020; Design of Road Lighting, Part 1 Lighting of roads and public amenity areas – Code of Practice. I.S. EN 13201-2:2015; Road Lighting Performance requirements
Tunnel/laneway design without lighting, CCTV, passive surveillance where appropriate, or presence of blind corners.	NTA Cycle Design Manual
Lack of ramped or appropriate gradient access.	Building for Everyone: A Universal Design Approach NTA Cycle Design Manual
No lift provision (in the absence of suitable ramp).	Building for Everyone: A Universal Design Approach
Handrails not provided on steps or ramp.	Building for Everyone: A Universal Design Approach

3.1 Issues and Recommendations / Mitigations

It is recommended that a meeting between designer and sponsoring agency is used as the primary means to discuss the relative importance of issues raised through the use of this guidance and proposed recommendations and mitigations.

The recommendations to address issues should not be overly prescriptive. Recommendations should be worded so that the designer has some choice in the measures to be implemented. It is possible that the designer can devise an amendment which overcomes the potential problem.

Recommendations should be as practical as possible and be appropriate in relation to the overall scheme cost and objectives. It must be recognised that the implementation of certain measures such as a change to design standards or national or local policy will be outside the scope of the designer.

Issues that remain unaddressed at the initial design stages should be reviewed at subsequent design stages. Recommendations may change throughout the design process.

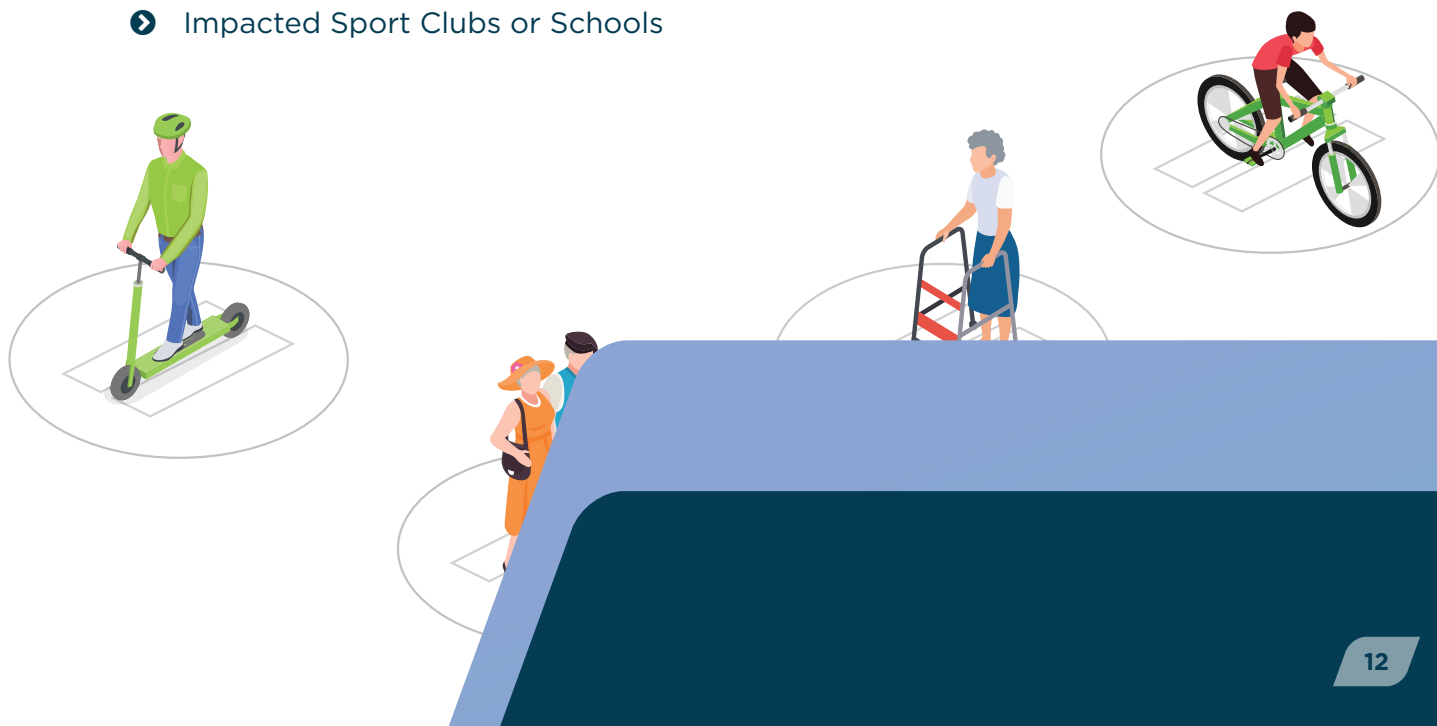
A hierarchy of treatment is set out below which aims to minimise Infrastructure Equality issues. The order of preference for mitigation measures is as follows:

- a) Remove the hazard or impact.
- b) Relocate the hazard or impact.
- c) Re-design the hazard or impact to reduce the risk to users.
- d) Revise the layout or cross-section to lower the risk.
- e) Reduce impact severity.
- f) Relocate the route.

3.2 Infrastructure Equality Guidance Users - Gathering Feedback

Along with the design team, the following groups could also be consulted on the design of a scheme to ensure feedback from relevant parties are considered:

- Disability User Groups
- Disabled Persons Organisation's (DPO's) as per the requirement to consult with DPO's according to the UN Convention of the Rights of People with Disabilities
- Older persons / public participation networks
- Business Improvement Organisations
- Neighbourhood Associations
- Gardaí
- Community Engagement Officers
- Community Centres
- Neighbourhood businesses (shops, restaurants, etc.)
- Impacted Sport Clubs or Schools



4 Equality Auditing

Accompanying this guidance document are two separate checklists which can be utilised to audit an active travel scheme either during the design stage or, post-construction. These checklists are available in Appendix B and C.

The 'baseline/construction' stage checklist can be used to audit the infrastructure on the ground (with a site visit), prior to starting a project, and/or to audit a scheme post-construction.

The other available checklist is the 'Design Stage Checklist' which can be used to audit the scheme and determine if there are any issues during preliminary or detailed design.

Following on from the completion of either checklist, a report should be completed, which outlines any issues that have been highlighted within the checklist. Mitigations and recommendations should be suggested to remove, or mitigate, any issues (where feasible) from the scheme.

4.1 Methodology for Design Stage Checklists

The following describes a suggested method for using an Infrastructure Equality Checklist during the design stages of a project;

- a. Drawings reviewed and Design Stage checklist used to assess the scheme.
- b. The reviewers discuss their findings and discuss possible recommendations and mitigations.
- c. The designer and Sponsoring Agency takes steps to address any recommendations/mitigations.
- d. Once mitigation measures have been addressed insofar as possible, the design process for this stage can be closed out.

4.2 Methodology for Using Baseline / Construction Checklist

Guidelines for the use of the checklist at the preliminary design stage/post-construction stage of a project.

- a) Site visit should be carried out on foot or bike, whichever is more relevant.
- b) Take notes of all the possible issues using the Baseline/Construction Checklist.
- c) Take photographs of all the possible issues.
- d) Observe road user behaviour for a period.
- e) Prepare list of issues and recommendations
- f) Take steps to address any mitigation measures recommended.

4.3 Site Visits

A site visit can be carried out for baseline and construction stage checklists. The site may need to be split into sections, particularly where a road or street is defined by

different characteristics at different points. The following should be considered along with the checklists:

- topography,
- local amenities,
- tie-ins of the scheme,
- time of day – consider whether checks should be done in daylight and/or at night-time,
- Season – consideration for risks present in Autumn/Winter compared to the summer time, (e.g. leaves on ground, less daylight, ice and snow),
- Time of year
- Photographs can be collected and stored for future reference.

It may be necessary to make more than one site visit during the day, particularly if traffic patterns or other factors are markedly different at different times of day.

4.4 Report

After carrying out an audit using one of the templates, a report can be written up. The following items should be included within the report:

- a) A brief description of the scheme being assessed;
- b) Identified issues and recommendations for action.

The information in the report can be organised by grouping all the points under themes, such as:

- | | |
|--|----------------------------------|
| ➤ security issues | ➤ lighting |
| ➤ social concerns | ➤ maintenance |
| ➤ accessibility issues | ➤ signage and maps |
| ➤ sight-lines | ➤ nearby land use issues |
| ➤ issues of isolation and entrapment sites | ➤ overall design features |
| | ➤ list of Stakeholders consulted |

5 Expected Outcomes

The designer should use the guidance in this document to check that potential equality issues are captured and addressed or mitigated where possible.

Monitoring and evaluation processes should take place on the intervention/scheme for at least six months to one year post implementation.

An isometric illustration of a city street scene. The background is a light blue grid with dashed white lines. Various people and transportation modes are depicted in circular frames. In the top left, a person is riding a red bicycle. Next to it, a man and a woman are walking. In the top center, a person is pushing a stroller. To the right, a group of people is walking, including a man with a cane. In the bottom left, a person is running. In the bottom center, a person is riding a green bicycle. In the bottom right, a group of people is walking. The overall scene is diverse and inclusive, representing various types of infrastructure users.

Appendix A

Infrastructure Equality Guidance Screening Template

Active Travel Advice Note: Infrastructure Equality Guidance Screening Template

Document Control Sheet

Document Type:	Screening Template
Document Title:	Infrastructure Equality Guidance Screening Template
Document No:	ATAN-2023-02

Pages:	5	Appendices:	0
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Rev.	Status	Date	Author	Reviewed By	Approved By
1		01/12/2023	SMD	JS	HC

Infrastructure Equality Guidance

Screening Template

This screening document should be used alongside the Equality Guidance Document.

This screening template should be used to identify likely impacts on the nine protected characteristics:

- | | | |
|-------------------------|-----------------------|--|
| 1. Gender | 4. Age | 7. Race |
| 2. Civil/Marital Status | 5. Disability | 8. Religion |
| 3. Family Status | 6. Sexual Orientation | 9. Membership of the Traveller community |

Table 1: Scheme Details

Scheme Name	
Scheme Description	
Aim of Scheme	
Objective of Scheme	
What existing sources of information will you use to help you identify the likely equality impact on different groups of people? (E.g. statistics, survey results, complaints analysis, consultation documents, customer feedback, existing briefings submissions or business reports, policies etc.)	
Are there gaps in information that make it difficult or impossible to form an opinion on how your proposals might affect different groups of people? If so what are the gaps in the information and how and when do you plan to collect additional information?	
Having analysed the initial and additional sources of information, is there any evidence that the proposed changes will have an adverse equality impact on any of these different groups of people and/or reduce equality of opportunity?	

Table 2: Scheme Details

Protected Characteristic	Screening Question	Will this group be adversely impacted?	Details of Impact / Rationale for Answer
Gender	Will the scheme have a disproportionate impact on availability of or access to infrastructure used by women, men or other gender identity? Will the construction and/or operation of the scheme have a disproportionate impact on access to employment for women, men and/or other gender identities?	Y/N	
Civil/Marital Status	Is the scheme predicted to have adverse impacts on those who are married, in a civil partnership or single?	Y/N	
Family Status	Will provision be made of a fully inclusive design for pregnant women and parents with young children?	Y/N	
Age	Is the scheme predicted to have adverse impacts on any one age category? Will elderly be affected in terms of access? Will children's access to school or places of recreation be affected? Are the young or elderly disproportionately affected by the scheme?	Y/N	
Disability	Will provision be made for a fully inclusive and accessible design? (comply with IS EN 17210: Accessibility and Usability of the Built Environment)	Y/N	
Sexual Orientation	Are particular sexual orientation groups likely to experience a differential impact as a result of scheme?	Y/N	
Race	Are particular racial or ethnic groups disproportionately represented in the communities impacted by the scheme? Will the construction of the Transport scheme impact particular racial or ethnic groups?	Y/N	
Religion	Is there any places of worship in the vicinity of the scheme that will be negatively impacted? Will any religious practices be negatively affected?	Y/N	
Membership of the Traveller community	Will the construction and/or operation of the scheme have a disproportionate impact on members of the Traveller Community?	Y/N	
Is the area of the proposed development isolated?			
Is there any immitigable issues in the area that will affect accessibility e.g. very steep gradients?			

The background of the entire page is a vibrant orange-red color with a repeating pattern of white dashed circles. Inside these circles are various isometric illustrations of people and their modes of transport. In the top section, there are people on bicycles, a couple walking, a person in a wheelchair, a person pushing a stroller, and a group of people walking. In the bottom section, there are people on bicycles, a person running, a person pushing a stroller, a person in a wheelchair, a person walking with a cane, a person taking a selfie, and a group of people walking. The overall theme is inclusive mobility and diverse transportation options.

Appendix B

Baseline & Construction Checklist

Checklist for Baseline and Construction Stage Projects

Instructions: sheet to be completed per street or area.

Details	
Type of Area:	e.g. residential, commercial, school etc.
Date:	
Location:	
Section:	
Time/Day:	

Issue	Guiding Questions	Yes	No	Comments
Footpaths	Is there a footpath?			
	Are there footpaths on both side of the road?			
	Are the footpaths continuous?			
	Are the footpaths in good condition/well maintained? (Cracks, unevenness, damaged, slippery)			
	Are footpaths at least 1.8m wide (or wider in busy areas)			
	If the footpath is not at least 1.8m wide does the route have passing places provided at intervals for wheelchair users?			
	Is footpath access ramped/are dropped kerbs available regularly?			
	Are the footpaths non-slip and well drained?			
	Are the footpaths vertically separate from the cycle lane? Describe vertical separator if present?			
	Are the footpaths separated from a cycle lane by a 60mm kerb, a white line or a delineator?			Note segregation type:
	Is the gradient greater than 1:12? (E.g. too steep for a wheelchair?)			Note - measuring tool needed
	Is the gradient steep?			
	Is the footpath separated from the traffic? How is it separated?			
	Does it feel safe to walk here?			
	Is there any trip hazards?			
	Is there sufficient space to push a buggy (with a suitable surface)			
	Is there evidence of informal paths or walkways that should be formalised?			

Issue	Guiding Questions	Yes	No	Comments
Footpaths	Are there pedestrian crossings available?			
	Are they appropriate for the location (e.g. signalised or uncontrolled)			
Pedestrian/ Cycle Crossings	Are there pedestrian crossings available?			
	Are they appropriate for the location (e.g. signalised or uncontrolled)			
	Is there a push button? Is the push button accessible?			
	Are there enough crossings?			
	Is the crossing time likely to be sufficient for slow users?			
	Are the crossing waiting times too long?			
	Are the crossings direct?			
	Do the uncontrolled crossings have dropped kerbs or step free crossings?			
	Does the uncontrolled crossing tactile paving comply with UK Department of Transport 2021: "Guidance on the use of Tactile Paving Surfaces" ¹			
	Are there guardrails which restrict crossing movements?			
	Is there parked vehicles obstructing the crossing (e.g. reducing visibility at crossing)?			
	If the crossing is uncontrolled, is it safe and easy to cross? (note if distance is too great, or traffic is too voluminous)			
	If the crossing has more than 2 lanes of traffic is there an island half way?			
	Are the crossings near enough?			
Cycle facilities	Is there cycling facilities present e.g. on road, segregated etc?			
	Is the cycle lane segregated/protected?			
	Is the cycle lane separated from footpath by line, delineator or 60mm kerb with height difference?			
	Is the cycle lane separated from traffic by >100mm kerb, lining or delineator?			
	Perform the 6 way check. Can the cyclist safely navigate the junction?			
	Does the cyclist interact with pedestrians at the junction? (e.g. pelican crossing) Is there any conflicts?			
	Can cyclists safely cross the road where necessary? Is there dropped kerbs available to join a segregated facility?			
	'is cycle parking in a safe and accessible area? (lit, sheltered, not isolated/out of sight) and has accessible bike racks available			

¹ UK Department of Transport 2021: Guidance on the Use of Tactile Paving

Issue	Guiding Questions	Yes	No	Comments
Cycle facilities	Is there an existing cycle network that infrastructure on this road would connect to if built?			
	Does cycle parking create a hazard for anyone with visual impairments?			
Public Transport Access	Is the walking distance between public transport stops appropriate (~400m)?			
	Is real time information available?			
	Is there seating at the bus stop?			
	Is there lighting at the bus stop?			
	Is there shelter at the bus stop?			
	Is there cycle parking and is the cycle parking in a busy area (not isolated), is accessible, and has lighting, security etc?			
	Is the 'last mile' from a bus stop/public transport suitable for walking alone and in the dark?			
	Is there any illegal parking – on double yellow lines, obstructing access, parking across dropped kerbs,			
Infrastructure	How many traffic lanes are present?			
	Are turning radii too wide?			
	Is traffic calming present?			
	Is traffic calming needed?			
	Is there a dead end?			
	Is there parking on Footpaths			
	Is there parking across cycles lanes			
Road User Behaviour	Cyclists on footpaths			
	Scooters on footpaths			
	Drivers don't stop for lights			
	Vehicles speeding			
	Drivers don't yield			
Lighting	How well lit is the area?			
	Are there spaces which are poorly lit?			
	How clearly does the lighting illuminate directional signs?			
	Does the lighting make you feel safe/ unsafe?			
	Is the lighting obscured by anything e.g. trees			
	Is the footpath or cycle lane clearly illuminated?			

Issue	Guiding Questions	Yes	No	Comments
Maintenance	Is there rubbish lying about?			
	Does the general state of maintenance of the area make you feel safe/ unsafe?			
	Is there evidence of vandalism?			
	Area is rundown			
Busy / Isolated	Are there a lot of people using this area?			
	What are they doing (e.g. walking, working, meeting, loitering)?			
	Does this make you feel safe/unsafe?			
	Are there places that feel empty and unsafe?			
	Are there particular spaces where people could hide?			
	Is there derelict buildings?			
	Does this make you feel safe/unsafe?			
	If in a stairwell or an underpass could someone hear you if you called for help?			
	Does the area appear safe from crime, harassment or similar threats?			
	Is there antisocial behaviour or evidence of such?			
Signage	Signage Is the street signage needed or should it be removed?			
	Is there wayfinding signage present?			
	Are there signs to tell you how to get to places e.g. bus stops, markets and buildings?			
	Is the signage damaged/need replacing			
Visibility	Can you tell what is at the other end of a tunnel, path or walkway?			
	Is street visibility obstructed by anything e.g. lampposts, pillars, bins, bushes, walls?			
	Is planting low to the ground and doesn't impact sight lines?			
	Is there active building fronts?			
	Are there small confined areas hidden from view? E.g. alleyways, blind corners, utility shed, laneway, construction site.			
	Are there areas that should be locked, fenced or barricaded? E.g. vacant lots, abandoned houses, building entrances, kiosks.			
	Will proposed infrastructure be in an area of passive surveillance?			
	Is there high walls and fences along the route?			

Issue	Guiding Questions	Yes	No	Comments
Accessibility	Is there ramped access to amenities?			
	Is the area easily accessible for persons with mobility issues? Is there steps or inaccessible areas for someone with limited mobility?			
	Is the current layout accessible for people with disabilities?			
	Will the proposed scheme have an impact on people with disabilities? Explain.			
	Are the wheelchair access ramps appropriate (slope less than or equal to 1:12)?			Measuring tool required.
	Is there a lift available where there is no ramp?			
	Are handrails provided where needed?			
	Do any hazards have appropriate ² tactiles e.g. steps, edges, etc.?			
	Is tactile paving to the standard of the UK Department of Transport 2021: Guidance on the Use of Tactile Paving?			
	Is there tactile paving at crossings?			
	Are the tactiles correctly aligned?			
	Are there audible, visual and vibrating cues at crossings with association tactiles on the signal buttons?			
	Is there an alternate well lit and frequently used path available?			
	Are there obstacles in the way of the walkway/ footpath?			
	Are facilities easily accessible from the footpath?			
	Is there seating to stop and rest?			
	Are bicycle parking facilities available close to amenities?			
	Is the bicycle parking outside the main 'accessible' route?			
	Is the bicycle parking accessible? E.g. suitable for mobility bicycles, cargo bicycles?			
	Is the area a shared area or shared surface that is difficult for the visually or mobility impaired to navigate?			
	Is tonal and colour contrast used appropriately?			
	Is there any barriers on this route (list in comment box)			
Surveillance	Is there mobile phone coverage?			
	Is there adequate passive surveillance?			
	Is there CCTV?			

² UK Department of Transport 2021: Guidance on the Use of Tactile Paving

Issue	Guiding Questions	Yes	No	Comments
Other	Is the speed limit appropriate?			
	Is there excessive noise levels?			
	Is there evidence of air pollution (fumes, construction dust, smoke, cigarette smoke)			
	Are there any other things about this space that makes you feel unsafe?			
Attractiveness	There is nowhere to rest			
	There is not enough shade/shelter			



Appendix C

Design Stage Checklist



Checklist for Design Stage Projects

Instructions: sheet to be completed per street or area.

Details	
Type of Area:	e.g. residential, commercial, school etc.
Date:	
Location:	
Design Stage:	
Section of Street/Area:	

Issue	Guiding Questions	Yes	No	Comments
Footpaths	Is there a footpath?			
	Are there footpaths on both side of the road?			
	Are the footpaths continuous?			
	Are footpaths at least 1.8m wide (or wider in busy areas)			
	If the footpath is not at least 1.8m wide does the route have passing places provided at intervals for wheelchair users?			
	Is footpath access ramped/are dropped kerbs available regularly?			
	Are the footpaths designed using suitable materials?			
	Are the footpaths vertically segregated from the cycle lane? Describe vertical separator if present.			
	Are the footpaths separated from a cycle lane by a 60mm kerb, a white line or a delineator?			Note segregation type:
	Is the gradient greater than 1:12? (E.g. too steep for a wheelchair?)			Note - measuring tool needed
	Is the footpath separated from the traffic? How is it separated?			
	Is there any trip hazards evident in the drawings?			
	Have informal paths or walkways been formalised?			
Pedestrian/ Cycle Crossings	Are there pedestrian crossings available?			
	Are they appropriate for the location (e.g. signalised or uncontrolled)			
	Are there enough crossings along the length of the scheme?			
	What is the crossing time allowed?			

Issue	Guiding Questions	Yes	No	Comments
Pedestrian/ Cycle Crossings	Is this crossing time likely to be sufficient for slow users?			
	Are the crossings direct?			
	Do the uncontrolled crossings have dropped kerbs or step free crossings?			
	Does the uncontrolled crossing tactile paving comply with UK Department of Transport 2021: "Guidance on the use of Tactile Paving Surfaces"			
	Are there guardrails which restrict crossing movements?			
	If the crossing is uncontrolled, is it safe and easy to cross? (note if crossing distance is too great, or traffic from surveys indicates volumes may be high)			
	If the crossing has more than 2 lanes of traffic is there an island half way?			
	Are the crossings near enough to key trip attractors?			
Cycle facilities	Is there a cycle lane			
	Is the cycle lane segregated/protected?			
	Is the cycle lane separated from footpath by line, delineator or 60mm kerb with height difference?			
	If the cycle lane separated from traffic by >100mm kerb, lining or delineator?			
	Perform the 6 way check. Can the cyclist safely navigate the junction?			
	Does the cyclist interact with pedestrians at the junction? (e.g. pelican crossing) Is there any conflicts?			
	Can cyclists safely cross the road where necessary? Is there dropped kerbs available to join a segregated facility?			
	Is cycle parking in a safe area? (lit, sheltered, not isolated/out of sight)			
	Is there an existing cycle network that infrastructure on this road would connect to if built?			
	Is any shared space present that may be unsuitable for vulnerable users (e.g. blind)			
Public Transport Access	Is the walking distance between public transport stops appropriate (~400m)?			
	Will real time information available			
	Will there be seating at the bus stop?			
	Will there be lighting at the bus stop?			
	Will there be a shelter at the bus stop?			

Issue	Guiding Questions	Yes	No	Comments
Public Transport Access	Will there be cycle parking and is the cycle parking in a busy area (not isolated), and has lighting, security etc.			
	Is the 'last mile' from a bus stop/public transport suitable for walking alone and in the dark?			
Infrastructure	How many traffic lanes are present?			
	Are turning radii regulation?			
	Is traffic calming present?			
	Is traffic calming needed?			
	Is there a dead end?			
Road User Behaviour	Have steps been taken to rectify negative road user behaviour as identified in the baseline audit?			
Lighting	Is lighting provided?			
	Are there spaces which are poorly lit?			
	Will the lighting illuminate directional signs?			
	Is the lighting obscured by anything e.g. trees			
	Is the footpath or cycle lane clearly illuminated?			
Busy/Isolated	Are there particular spaces where people could hide?			
	Is there derelict buildings?			
	If in a stairwell or an underpass could someone hear you if you called for help?			
Signage	Is the street signage needed or should it be removed?			
	Is there wayfinding signage present?			
Visibility	Is street visibility obstructed by anything e.g. lampposts, pillars, bins, bushes, walls?			
	Is planting low to the ground and doesn't impact sight lines?			
	Is there active building fronts?			
	Are there small confined areas hidden from view? E.g. alleyways, blind corners, utility shed, laneway, construction site.			
	Are there areas that should be locked, fenced or barricaded? E.g. vacant lots, abandoned houses, building entrances, kiosks.			
	Will proposed infrastructure be in an area of passive surveillance?			
	Is there high walls and fences along the route?			

Issue	Guiding Questions	Yes	No	Comments
Accessibility	Is there ramped access to amenities?			
	Is there steps or inaccessible areas for someone with limited mobility?			
	Are the wheelchair access ramps appropriate (slope less than or equal to 1:12)?			
	Is there a lift available where there is no ramp?			
	Are handrails provided where needed?			
	Do any hazards have appropriate ¹ tactiles e.g. steps, edges, etc.?			
	Is tactile paving to the standard of the UK Department of Transport 2021: Guidance on the Use of Tactile Paving?			
	Is there tactile paving at crossings?			
	Are the tactiles correctly aligned?			
	Will there be audible or vibrating cues at crossings with associated tactiles on the signal buttons?			
	Are there obstacles in the way of the walkway/footpath?			
	Are facilities easily accessible from the footpath?			
	Is there seating to stop and rest?			
	Is bicycle parking available close to amenities/along main route?			
	Is the bicycle parking accessible? E.g. suitable for mobility bicycles, cargo bicycles?			
	Is the area a shared area or shared surface that is difficult for the visually or mobility impaired to navigate?			
	Is tonal and colour contrast used appropriately?			
	Is there any barriers on this route (list in comment box)			
Surveillance	Is there CCTV?			
	Will there be adequate passive surveillance?			
Attractiveness	Will there be places/seating to rest?			
	Will there be shade/shelter along the route?			
Other	Is the speed limit appropriate?			

¹ UK Department of Transport 2021: Guidance on the Use of Tactile Paving

