

DEVELOPMENT CONTROL COMMITTEE

SUPPLEMENTARY AGENDA - APRIL 2024

APPENDIX C

Chichester Road, Southend-on-Sea

Road Safety Assessment

Date: December 2022

Report produced for: Southend-on-Sea City

Council Report produced by: Allen Transport

Consultancy

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **CONTENTS**

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **DOCUMENT CONTROL SHEET**

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Project Details:

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **ROAD SAFETY ASSESSMENT**

The Author, Lisa Allen, of Allen Transport Consultancy Ltd, is a Member of both the Chartered Institution of Highways & Transportation and the Society of Road Safety Auditors. Whilst not a Road Safety Audit scheme, this report has been prepared following the principles of the General Principles and Scheme Governance General Information GG 119 Road Safety Audit Revision 2, as contained within the Design Manual for Roads and Bridges.

1 INTRODUCTION

- 1.1 This report has been produced for Southend-on-Sea City Council, Civic Centre, Victoria Avenue, Southend-on-Sea, Essex, SS2 6ER, for the specific purpose of assessing the existing footway on the western side of Chichester Road, Southend-on-Sea in Essex.
- 1.2 The location of Chichester Road is described in greater detail within Section 2, with any issues raised identified within Section 4 of this report.
- 1.3 This report may not be used by any person other than Southend-on-Sea City Council without their express permission. In any event, Allen Transport Consultancy Ltd accepts no liability for any costs, liabilities or losses arising as a result of the use of or reliance upon the contents of this report by any person other than Southend-on-Sea City Council.
- 1.4 Southend-on-Sea City Council have identified concerns with regard to the available footway width on the western side of Chichester Road, just prior to its junction with Tylers Avenue, in relation to an existing mature tree impacting upon pedestrian movements on the western side of Chichester Road, (refer to photograph 1 below).

Photograph 1: Mature tree restricting the available footway width

1.5 The Southend-on-Sea City Council's tree preservation register does not show this tree as being listed.

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Road Safety Assessment December 2022

1.6 The site was visited on Tuesday 15th November 2022 between 12:50-13:25 hours.

1.7 The site visit included static observations of current pedestrian movements on Chichester Road, near the junction with Tylers Avenue, to assess how the existing tree impacted upon pedestrian movements. During the site visit, the weather was overcast, cold and the existing road surface was wet from earlier rainfall. Vehicular traffic movements at the time of the site visit were light. Twelve pedestrians were observed during the site visit walking north and south on the western footway, with several other pedestrians located at the bus stops on this section of Chichester Road. No pedal cyclists were observed during the site visit.

1.8 Where issues have been noted relating to Chichester Road, details have been provided in Section 4 of this report.

Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **2 LOCATION AND DESCRIPTION**

2.1 Chichester Road runs in a north-south direction and overall is approximately 0.4 miles in length and connects with Queensway to the north and Heygate Avenue to the south. The nearest east west junctions connecting with Chichester Road are Tylers Avenue to the north and York Road to the south. The road is subject to a 30mph speed limit.

2.2 Chichester Road is currently two-way for all traffic, with a bus layover area on the eastern side of Chichester Road (southbound direction) between Tylers Avenue and York Road. Traffic signals are also present on Chichester Road at the junctions with Tylers Avenue and York Road.

2.3 Chichester Road is street lit throughout its entire length.

2.4 Approximately seven bus routes service Chichester Road, as follows: 4, 6, 7, 8, 14, 24 and 827. The section of Chichester Road between Tylers Avenue and York Road incorporates six bus shelters.

2.5 The site on the northwest corner at the junction of Chichester Road and Tylers Avenue was hoarded off for an assumed future development.

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **3 COLLISION HISTORY**

3.1 An examination of the Crashmap collision database for Chichester Road, from the 1st January 2017 to the 31st December 2021, that being the latest validated period, has shown there have been four recorded personal injury collisions during the five-year period.

3.2 Two of the recorded collisions occurred on Tylers Avenue near the junction with Chichester Road; one recorded collision occurred on Chichester Road approximately mid-way between Tylers Avenue and York Road and one recorded collision on York Road near the junction with Chichester Road. Three collisions were classified as slight injury and one was classified as serious injury. Of the four collisions that occurred, three involved pedestrians.

3.3 Details of the four recorded personal injury collisions are set out below:

- **Location:** Tylers Avenue at the junction with Chichester Road.

Date / Time: Monday 25th June 2018 at 13:45 hours.

Road Surface: Dry.

Collision scenario: A collision occurred between two vehicles. The recorded slight personal injuries were as a result of a rear end shunt type collision occurring with Vehicle 1 hitting the rear of Vehicle 2.

- **Location:** Chichester Road at the junction with Tylers Avenue.

Date / Time: Thursday 18th January 2018 at 14:35 hours.

Road Surface: Wet or Damp.

Collision scenario: A collision occurred between a vehicle and pedestrian. The recorded serious personal injury was as a result of the vehicle and pedestrian (age band 46-55 years) collision occurring. The pedestrian was in the carriageway crossing on a pedestrian crossing facility.

- **Location:** Chichester Road, mid-way between Tylers Avenue and York

Road. **Date / Time:** Sunday 29th October 2017 at 11:07 hours.

Road Surface: Dry.

Collision scenario: A collision occurred between a vehicle and pedestrian. The recorded slight personal injury was as a result of the vehicle and pedestrian (age band 46-55 years) collision occurring. The pedestrian was in the carriageway within 50m of a pedestrian crossing.

- **Location:** York Road at the junction of Chichester Road.

Date / Time: Saturday 14th October 2017 at 11:15 hours.

Road Surface: Dry.

Collision scenario: A collision occurred between a vehicle and a pedestrian. The recorded slight personal injury was as a result of a vehicle reversing into a pedestrian (age band 36-45 years).

3.4 Further details of the collisions sourced from Crashmap can be found in Appendix A. Ref:

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **4 ON SITE OBSERVATIONS**

4.1 The purpose of this report is to review Southend-on-Sea City Council's concerns with regard to road safety for pedestrians on the western footway in Chichester Road.

4.2 A plan showing the location of the issues raised in this report is included in Appendix B.

4.3 Locations 1 and 2 – Chichester Road, western footway.

The site visit has established the presence of an existing mature tree on the western side of Chichester Road. The existing footway is approximately 3m wide. The tree occupied the majority of the footway leaving approximately 0.5m between the tree and hoarding to the rear of the footway and approximately 0.75m between the tree and kerb line on Chichester Road for pedestrians to walking northbound and southbound on this section of footway. Between the tree and the kerb line on Chichester Road, an inspection chamber cover was noted, which appeared slippery following earlier rainfall.

Additionally, the tree roots were causing damage to a large area of the footway. There was evidence of recent footway works having been undertaken, however, the flagstone paving had not been laid on a notable sized area of footway, in and around the tree base, due to existing tree roots being at the surface of the footway.

The site visit also established that the area was busy with pedestrians and the bus stops appeared to be well used along this section of Chichester Road.

During the site visit, a parent / guardian with a perambulator (pram) were seen attempting to travel northbound on the western footway between the existing tree and hoarding (refer to photograph 2 below). The wheels of the pram became caught up on the exposed tree roots and required the parent / guardian to tip the pram such that the front and rear wheels could move past the tree roots.

Photograph 2: Parent / Guardian negotiating tree roots within the available footway width

It is not clear whether a wheelchair user or mobility scooter user would be able to manoeuvre past the existing tree without having to enter the northbound carriageway or potentially detour away from their desire line in order to travel unimpeded safely to their destination.

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The existing tree roots could result in a potential increased risk of pedestrian trips and falls occurring, whereby pedestrians could sustain personal injury.

Also during the site visit, pedestrians were observed to walk in the northbound carriageway in order to avoid this section of damaged footway (refer to photograph 3 below).

Photograph 3: Pedestrian walking in northbound carriageway to avoid the western footway

Additionally, pedestrians walking in the northbound carriageway could result in a potential increased risk of vehicular and pedestrian collisions occurring, as motorists would not be expecting pedestrians to be utilising the northbound carriageway to continue their journey, whereby pedestrians could sustain personal injury.

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Chichester Road, Southend-on-Sea

Road Safety Assessment December 2022 **5 POTENTIAL MITIGATION MEASURES**

5.1 This section identifies potential measures to mitigate against the road safety observations identified during the site visit.

5.2 Removal of the existing tree on the western side of Chichester Road:

By removing the existing tree and protruding roots, pedestrians would no longer be

susceptible to trips and falls occurring due to the raised tree roots, risking personal injury or needing to enter the northbound carriageway to continue their journey risking collisions with northbound vehicular traffic. Therefore, the removal of the tree would ensure pedestrians are able to utilise the full width of the footway in this area unimpeded. Once removed, the footway should be made good.

5.3 Replace the existing tree with a more suitable tree on the western side of Chichester Road:

In order to retain greening within the area, it is recommended that the existing tree should be replaced with a more suitably sized tree that allows pedestrians to utilise the majority of the existing footway width. Any new tree should have its roots contained, such that damage to the footway surface does not occur in the future scenario.

Additionally, subject to the species of a new tree and its potential growth, it is recommended that measures should be provided to ensure pedestrians walk on the building side of the tree away from the Chichester Road northbound carriageway. Measures could include placing the new tree nearer to the kerb line of the Chichester Road northbound carriageway or the provision of guardrail.

5.4 Enter negotiations with the landowners of the vacant site on the northwest corner of Chichester Road and Tylers Avenue in order to dedicate land to Southend-on-Sea City Council:

In order to retain the existing tree and ensure pedestrians are provided with a suitable and adequate footway width on the western side of Chichester Road, it is recommended that Southend-on-Sea City Council enter negotiations with the landowners of the site. Securing this land will enable the provision of a suitable and adequate footway width for the current and future numbers of pedestrians using the western footway on Chichester Road.

It is further recommended that the footway should be made good around the existing tree roots, in order to prevent pedestrian trips and falls occurring.

Additionally, it is recommended that measures should be provided to ensure pedestrians walk on the building side of the tree away for the Chichester Road northbound carriageway. Measures could include the provision of guardrail.

This option can be considered alongside retaining the existing tree or providing a new tree on the western side of Chichester Road.

6.1 Chichester Road, as stated in Section 2, runs in a north-south direction connecting Queensway to the north and Heygate Avenue to the South. The road is subject to a 30mph speed limit and is street lit.

6.2 Chichester Road does not appear to have a personal injury collision history, with there being one collision recorded on Chichester Road, two collisions recorded on Tylers Avenue near the junction of Chichester Road and one collision recorded on York Road near the junction

of Chichester Road in the latest 5-year period.

6.4 In Section 5 of this road safety assessment report, a number of measures are identified in order to provide mitigation to the road safety concern reported by Southend-on-Sea City Council and observed on site, whereby one of the proposed mitigation measures involves obtaining third party land.

6.5 It should be noted that the ability for Southend-on-Sea City Council to obtain or negotiate access to land not within their ownership would have an impact upon the number of mitigation measures available for consideration.

6.7 It is recommended that any proposals to improve road safety on the western side of Chichester Road should be subject to a separate formal Road Safety Audit under the General Principles and Scheme Governance General information GG 119 Road Safety Audit, revision 2.

Signed: 

Lisa Allen, BEng (Hons), MSc, MCIHT, MSoRSA, HA RSA Certificate of Competency Director

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APPENDIX A

Crashmap Collision Data: January 2017 – December 2021

Crash Date:

Monday, June 25, 2018 **Time of Crash:**

1:45:00 PM **Crash Reference:**

Validated Data

2018420304727

Highest Injury Severity: Highway Authority:

Slight

Southend-on-Sea

Road Number: U0

2

Number of Casualties: Number of Vehicles: 2

Local Authority:

Weather Description:

Road Surface Description: Speed Limit:

Light Conditions:

Carriageway Hazards:

Junction Detail:

Junction Pedestrian Crossing: Road Type:

Southend-on-Sea Borough

Fine without high winds

Dry

30

Daylight: regardless of presence of streetlights None

Other junction

Pedestrian phase at traffic signal junction One way street

OS Grid Reference: 588348 185502



Junction Control: Auto traffic signal

For more information about the data please visit: www.crashmap.co.uk/home/Faq To subscribe to unlimited reports using CrashMap Pro visit www.crashmap.co.uk/Home/Premium_Services

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Vehicles involved

Validated Data

1	Car (excluding private hire)		19 Male	36 - 45	Vehicle proceeding normally along the carriageway, not on a bend		Front
2	Car (excluding private hire)		2 Female	56 - 65	Vehicle is waiting to proceed normally but is held up	Back	C

Casualties

2	1 Slight Driver or rider Female 56 - 65 Unknown or other					
2		2 Slight	Vehicle or pillion passenger	Female	Over 75	Unknown or other

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Crash Date:



Thursday, January 18, 2018 **Time of Crash:**

2:35:00 PM **Crash Reference:**

Validated Data

2018420259686

Highest Injury Severity: Highway Authority:

Serious

Southend-on-Sea

Road Number: U0

1

Number of Casualties: Number of Vehicles: 1

Local Authority:

Weather Description:

Road Surface Description: Speed Limit:

Light Conditions:

Carriageway Hazards:

Junction Detail:

Junction Pedestrian Crossing: Road Type:

Southend-on-Sea Borough

Other

Wet or Damp

30

Daylight: regardless of presence of streetlights None

Crossroads

Pedestrian phase at traffic signal junction Single carriageway

OS Grid Reference: 588367 185503



Junction Control: Auto traffic signal

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Vehicles involved

Validated Data

1	Bus or coach (17+ passenger seats)		6 Male	46 - 55	Vehicle proceeding normally along the carriageway, not on a bend	Front	Jr a o

Casualties

1	1	Serious	Pedestrian	Male	26 - 35	In carriageway, crossing pedestrian crossing facilities	

For more information about the data please visit: www.crashmap.co.uk/home/Faq
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Crash Date:



Sunday, October 29, 2017 **Time of Crash:**

11:07:00 AM **Crash Reference:**

Validated Data

2017420233993

Highest Injury Severity: Highway Authority:

Slight

Southend-on-Sea

Road Number: U0

1

Number of Casualties: Number of Vehicles: 1

Local Authority:

Weather Description:

Road Surface Description: Speed Limit:

Light Conditions:

Carriageway Hazards:

Junction Detail:

Junction Pedestrian Crossing: Road Type:

Southend-on-Sea Borough

Fine without high winds

Dry

30

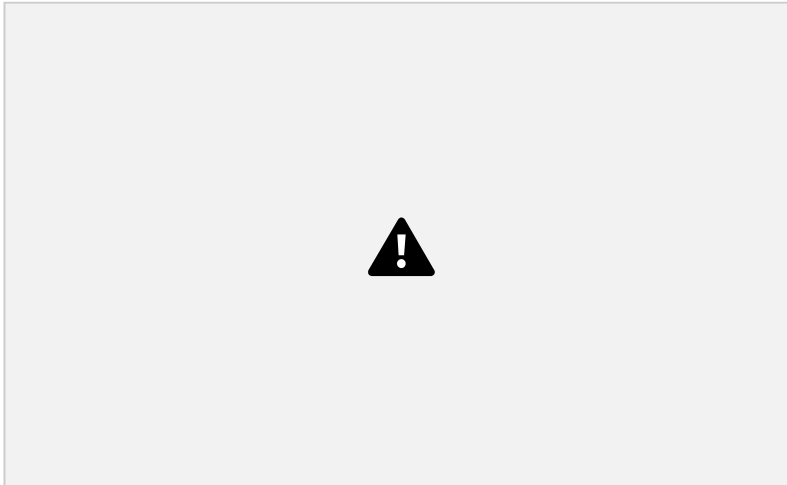
Daylight: regardless of presence of streetlights None

Not at or within 20 metres of junction

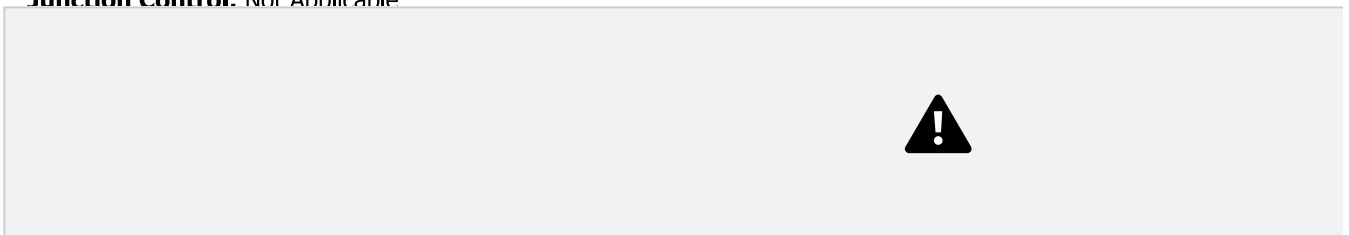
Pelican, puffin, toucan or similar non-junction pedestrian light crossing

Single carriageway

OS Grid Reference: 588375 185459

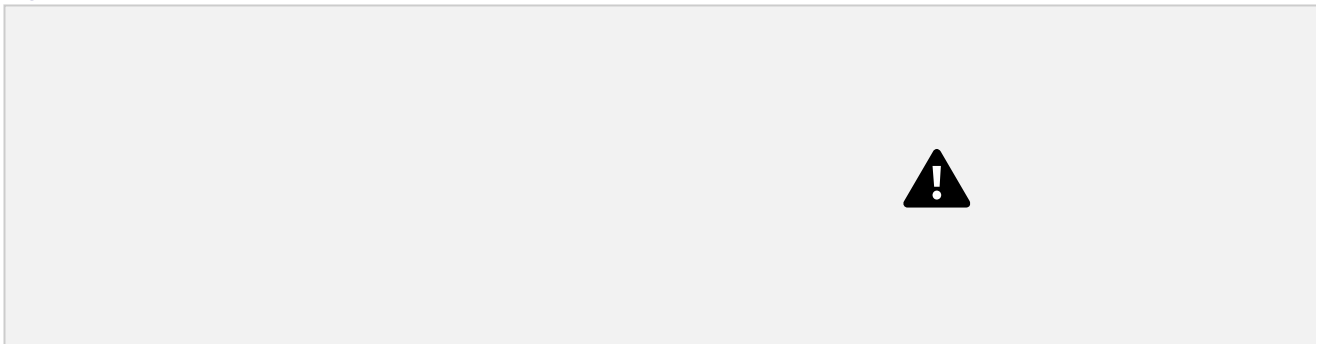


Junction Control: Not Applicable



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Vehicles involved

Validated Data

1	Car (excluding private hire)		3 female	46 - 55	Vehicle proceeding normally along the carriageway, not on a bend	Front	C

Casualties

1	1	Slight	Pedestrian	Female	Over 75	In carriageway, crossing elsewhere within 50 met pedestrian crossing



For more information about the data please visit: www.crashmap.co.uk/home/Faq
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Crash Date:



Saturday, October 14, 2017 **Time of Crash:**

11:15:00 AM **Crash Reference:**

Validated Data

2017420229411

Highest Injury Severity: Highway Authority:

Slight

Southend-on-Sea

Road Number: U0

1

Number of Casualties: Number of Vehicles: 1

Local Authority:

Weather Description:

Road Surface Description: Speed Limit:

Light Conditions:

Carriageway Hazards:

Junction Detail:

Junction Pedestrian Crossing: Road Type:

Southend-on-Sea Borough

Fine without high winds

Dry

30

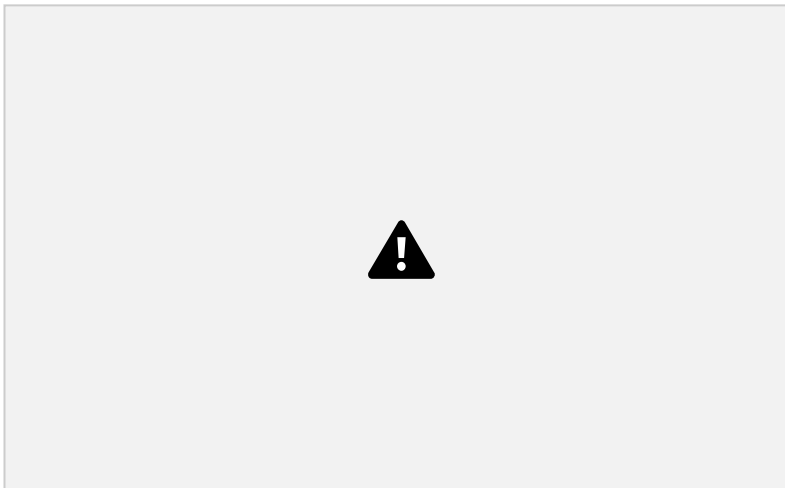
Daylight: regardless of presence of streetlights None

T or staggered junction

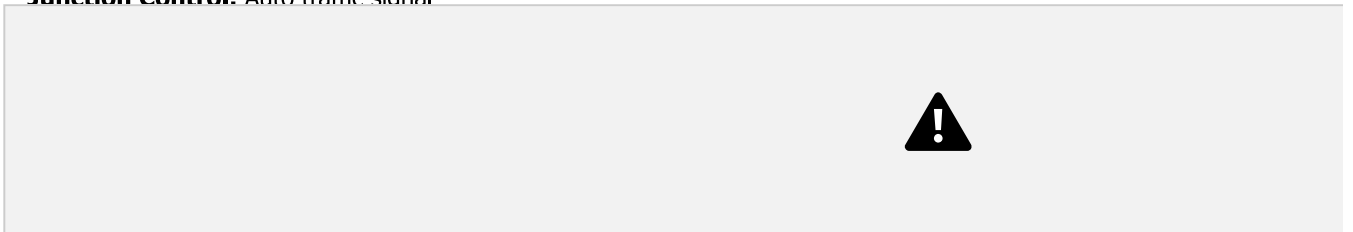
Pelican, puffin, toucan or similar non-junction pedestrian light crossing

Single carriageway

OS Grid Reference: 588380 185403

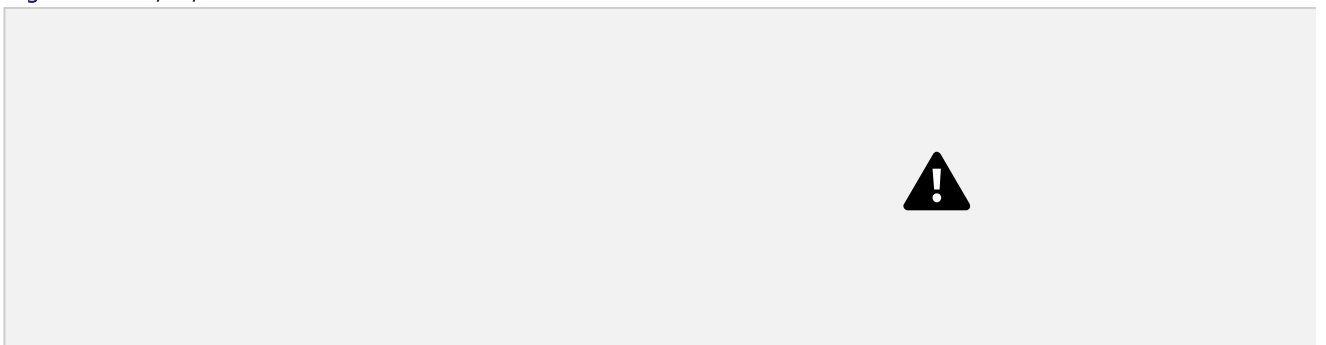


Junction Control: Auto traffic signal



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Vehicles involved

Validated Data

1	Car (excluding private hire)		1 Male	36 - 45	Vehicle is reversing	Back	C

Casualties

1	1	Slight	Pedestrian	Female	Over 75	In carriageway, crossing elsewhere within 50 met pedestrian crossing



For more information about the data please visit: www.crashmap.co.uk/home/Faq
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APPENDIX B

Problem location plan showing the location of the problems identified as part of this safety assessment.



1

2