Pedestrian Crossings Safety Audit Problems



Pedestrian Crossings Design and Standard is included in "The Treatment of Transition Zones to Town and Villages on National Roads" DN-GEO-3084



Types of Pedestrian Crossings

• Two main types

- Uncontrolled
- Pedestrian build-outs
- Drop kerbs
- Pedestrian central islands
- Controlled
- Zebra crossing
- Signalised
 - Basic Signalised Crossing
 - Puffin Crossing
 - Toucan Crossing



Uncontrolled Crossing



Uncontrolled Pedestrian crossing

Build outs – reducing width of road to 3m plus 1m if cycle lane

Central island allows peds to cross one lane at a time. Greater than 2m tactile is two slabs wide. Less full width of Island.

Tactile should be Buff colour but not red

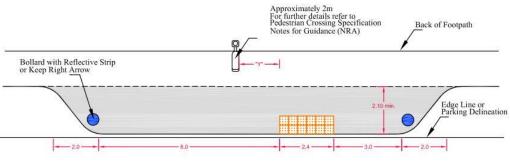
Max of 6mm kerb upstand



Uncontrolled DMURS - Crossing Buildouts



Ensures better visibility



B: WITH PEDESTRIAN FACILITY





Zebra Crossings

• Black and White stripes on road surface and two flashing Belisha beacons on poles. Zig Zag lines. Red tactile paving.

- Vehicles must give way if ped has started crossing, yield line. Visibility.
- Additional Lighting shall be provided as per DN-LHT-03038 Section 5.8.1

Puffin Crossing

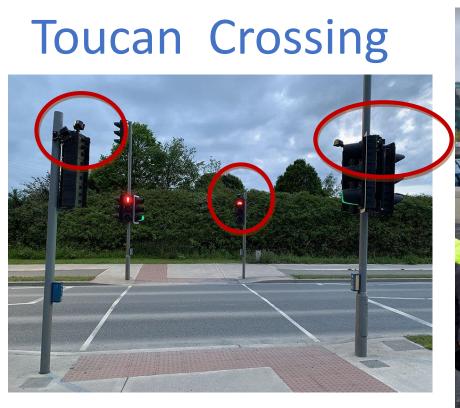


Detects peds and Vehs. Detection may be microwave or for peds pressure sensitive mats

Detect peds over the length of crossing – if slow it extends stage If Gap found it cancels call











RTS 006: Two Aspect Cycle Signal



RTS 007: Three Aspect Cycle Signal

Toucan crossings allow pedestrians and cyclists to cross at the same time without requiring cyclists to dismount and walk across. Cyclists are detected approaching crossing Width of 4.0m Recommended





Toucan Crossing Limerick



Crossings problems

- Water Pedestrian goes elsewhere
 Trip Hazard
- Orientation of Tactile paving



Uncontrolled Crossing

Zebra Crossings problems

- Poles not painted
- Tactile paving one side
- Incomplete crossing
- No visibility
- Central island to small
- Incorrect colour of tactile paving
- Width of crossing
- Speed and level of traffic
- Desire line
- Drainage Issues



Zebra Crossings





Central Island is greater than 2.00m wide? Should it be a refuge? Tactile paving? How should a pedestrian/driver interpret it?



Zebra Crossings problems

Lack of lighting
It is critical that a pedestrian can be seen at a crossing







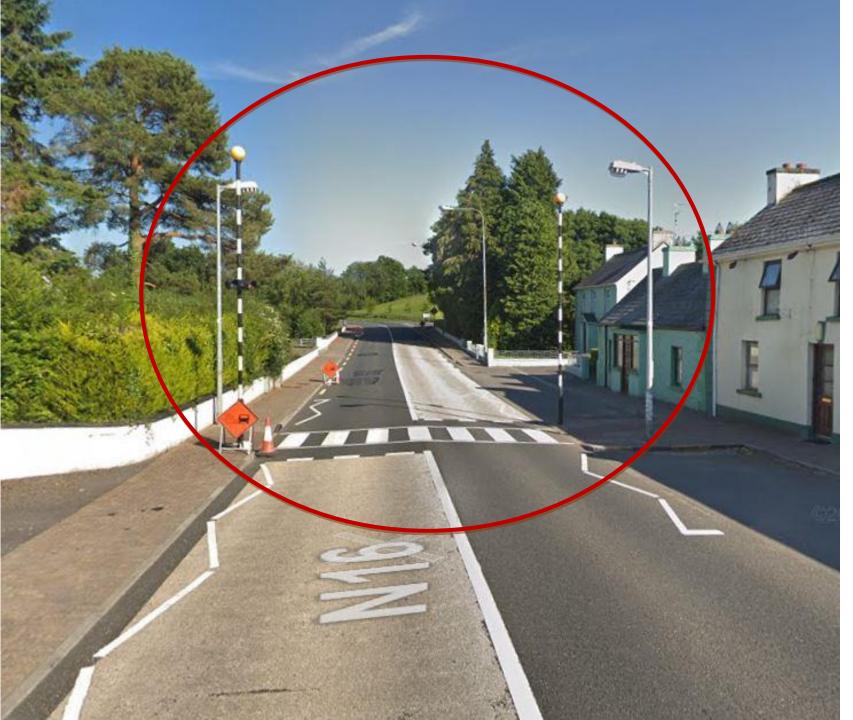
Zebra Crossings problems • Lighting and upgrade of Zebra crossing



Retrofit to existing crossing. Halo and White LED's in Poles

Zebra Crossings problems Stage 1







9.10 Flashing Amber Signals

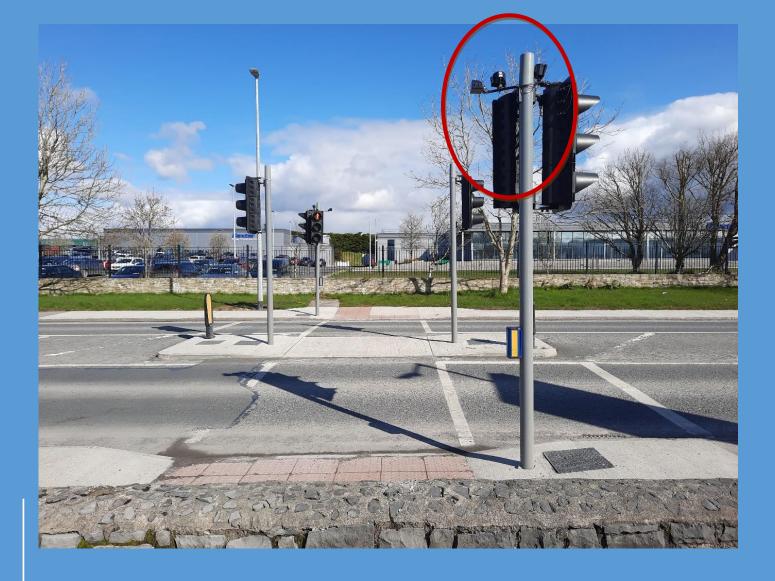
9.10.1 Twin Flashing Amber Signals, Signal S 102, may be used in conjunction with the School Ahead sign (W 141), with a Periodic Speed Limit sign (RUS 045) and on approaches to railway level crossings. The signal consists of twin flashing amber lights arranged horizontally on a black background.





Signalized Crossings problems Traffic focused staging No detection - expect to cross in predetermined time within phase Trapped Pedestrians in central island





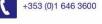
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