

DEFECT RESPONSE MATRICES - CARRIAGEWAY

The following matrices are to be used to direct when reactive works are required.

Regardless of the intervention criteria listed above, the application of higher standards may be considered appropriate in sensitive locations such as schools, shopping centres, hospitals, elderly accommodation and in sensitive/well used locations where there is no adjacent footway (e.g. a local walking route to a school).

The matrices have been developed through a risk-based approach relating to size and location. Should defects be smaller than those in the main matrix, guidance is provided in the notes section of the relevant matrix detailing how these defects will be categorised.

Defect Response Matrix A – Debris and Spillage

Matrix A - Debris / Spillage							
		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very Likely Environmentally hazardous and trees in the carriageway	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Likely Non-environmentally hazardous	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 4 10 working days	Cat 4 10 working days
Notes							
<p>Environmentally hazardous spillages include petrol, diesel, oil, other vehicle fluids, chemicals, bodily fluids and sewage. Non-environmentally hazardous spillages include mud, sand, grain & dry goods. Removal of non-environmental spillages should only be instructed where the spillage represents a danger to road users and cannot wait until the next routine cleanse. Under the terms of the Environmental Protection Act 1990, street cleansing (including sweeping) is the responsibility of the relevant district and borough council.</p> <p>For non-environmental hazards - the 2hr response is to attend and make safe, likely by signing. A further decision on how to cleanse or remove the debris will be managed at the Service Delivery Centre.</p> <p>This matrix includes the adjacent footway.</p>							

Defect Response Matrix B – Carriageway Level Difference

Matrix B - Carriageway Level Difference				
		SEVERITY		
		Major	Moderate	Minor
		Road Type 2 & 3a	Road Type 3b	Road Type 4a & 4b
		Strategic 'A' rd Routes - Main Distributor - Major Urban Network and Inter Strategic routes 200mm length	Main secondary distributor roads 200mm length	Local Roads - Minor rural roads and urban culs-de-sac 200mm length
LIKELIHOOD	Very likely >100mm	Cat 2 2 Working Days	Cat 3 5 Working days	Cat 5 20 Working Days
	Likely 40-100mm	Cat 4 10 Working Days	Cat 5 20 Working Days	Cat 6 8 weeks
	Rare <40mm	Defects under 25mm in depth do not need to be recorded.		
Notes				
<p>Examples of level differences may be where a concrete slab has risen or fallen above the adjacent slab, where a carriageway widening joint or haunch has risen or fallen in relation to the adjacent carriageway.</p> <p>Consideration should be given to the location of the level difference within the carriageway, including how it relates to direction of travel.</p>				

Defect Response Matrix C – Carriageway Defects

Carriageway Defects - Matrix C				
		SEVERITY		
		Major	Moderate	Minor
		Road Type 2 & 3a	Road Type 3b	Road Type 4a & 4b
		Strategic 'A' rd Routes - Main Distributer - Major Urban Network and Inter Strategic routes	Main secondary distributor roads	Local Roads - Minor rural roads and urban culs-de-sac
		Monthly	3 Monthly	6 Monthly
		200mm dia	200mm dia	200mm dia
LIKELIHOOD	Very likely >100mm	Cat 2 2 Working Days	Cat 3 5 Working days	Cat 5 20 Working Days
	Likely 40-100mm	Cat 4 10 Working Days	Cat 5 20 Working Days	Cat 6 8 weeks
	Rare <40mm	Defects under 40mm in depth do not need to be recorded.		
<p>Notes</p> <p>In sensitive/well used locations on 4a and 4b roads where there is no adjacent footway, elevate repairs to Cat 5. If within a controlled pedestrian crossing use Matrix K - Footway Potholes.</p> <p>Laybys Road type 4b applies to all bound material laybys (regardless of adjacent carriageway hierarchy)</p>				

Defect Response Matrix D – Ironwork

Matrix D - Ironwork							
	SEVERITY						
	Extreme	Major	Moderate	Minor	Minor	Negligible	
	Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b	
	Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac	
LIKELIHOOD	Very likely Missing >300 x 200mm	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Likely Missing <299 x 199mm	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 2 2 working days	Cat 2 2 working days
	Possible Sunken, risen, broken or rocking frame >100mm in depth	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days
	Unlikely Sunken, risen, broken or rocking frame 25mm to 99mm depth	Cat 2 2 working days	Cat 2 2 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days
	Rare Noisy , worn and sunken, risen or rocking <25mm depth	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
Notes Reference required in ordering defect as to whether ironwork is missing, collapsed, sunken or broken. For utility covers, refer to Section 81 notes for guidance.							

Refer to Appendix 4 for Section 81 guidance on attending and reporting defective statutory undertakers' apparatus

Defect Response Matrix E – Flooding affecting the highway












Matrix E - Flooding affecting Highway (C/Way)							
		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very Likely Potential dangerous flooding	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days
	Possible Blocked drainage causing flooding on the highway	Cat 4 10 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 7 Potential future works	Cat 7 Potential future works
	Unlikely Blocked or silted up road gully, not causing flooding	Cat 5 20 working days	Cat 5 20 working days	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
<p>Notes</p> <p>Blocked drainage systems will be attended to under the Matrix shown above. Remedial works will be carried out to unblock the system. (It may not be possible to treat within the timescales noted above if the drainage system is damaged or located within private land).</p> <p>For blocked drainage causing flooding on the highway on Road Types 4a and 4b, review against cyclic programme before considering further action.</p>							

Blocked drainage systems will be attended to under this Matrix.

Defect Response Matrix F – Street Furniture

Matrix F - Street Furniture							
		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor - Major Urban Network and Inter Strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very likely Within or leaning likely to fall within the carriageway	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Likely Blocking the footway forcing pedestrian into the carriageway	Cat 2 2 working days	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days
	Possible Within or leaning likely to fall within the footway	Cat 3 5 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 7 Potential future works
	Unlikely/Rare Within the verge	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
Notes Non-electrical equipment, including guard posts (bollards) restricting access, including road sign posts and pedestrian barriers. (N.B. road sign plates and reflectorised bollards with road signs are covered in Matrix G). If street furniture is within footway but pedestrians can safely travel past (including using the verge) without entering the carriageway, use the 'within the footway' row.							

Defect Response Matrix G – Road Signs

Matrix G - Road Sign							
SEVERITY							
Extreme							
Major							
Moderate							
Minor							
Minor							
Negligible							
Road Type 2							
Road Type 3a							
Road Type 3b							
Road Type 3b							
Road Type 4a							
Road Type 4b							
Strategic 'A' rd routes							
Main distributor - major urban network and inter-strategic routes							
Main rural secondary distributor roads							
Main urban secondary distributor roads							
Local roads							
Minor rural roads and urban cul-de-sac							
LIKELIHOOD	Very Likely/ Likely Mandatory sign missing or heavily obscured	Cat 2 2 working days	Cat 2 2 working days	Cat 2 2 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 5 20 working days
	Possible Warning sign missing	Cat 5 20 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
	Unlikely/Rare Regulatory, information, ADS or tourist sign missing	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
Notes Non-electrical equipment only. Include reflectorised bollards with traffic sign - for example dia. No. 610. Mandatory signs are referenced as Diagram No. 601.1; 606; 609; 610; 616; 670 for 30 and 40mph speed limit terminal signs and 773, 780A and 784.1 at railway level crossings.							
Mandatory Diagram No.	601.1	Dia 606	Dia 609	Dia 610	Dia 616	Dia 670	
							
	773	779 & 780A	784.1				
							
Warning Diagram No.		515		Triangular warning signs	e.g.		
							

Defect Response Matrix H – Fencing and Barriers

		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor major urban network and inter-strategic routes	Main urban secondary distributor roads	Main rural secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very Likely Bridge parapets	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Likely Safety fences	Cat 2 2 working days	Cat 2 2 working days	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
	Possible Pedestrian barriers - preventing unintentional carriageway access	Cat 2 2 working days	Cat 2 2 working days	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
	Unlikely Pedestrian barriers - guiding to crossing points	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
	Rare Other fences	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
Notes Where safety fencing is provided or pedestrian barrier has been provided to guide pedestrians to a crossing point, a risk assessment should be carried out to consider whether it is still necessary, before carrying out replacement. For safety fencing and pedestrian barriers on Type 2 and 3a with 48hrs make safe response, permanent repair is to be delivered as Cat 6 (14 weeks)							

Defect Response Matrix I – Kerbing

Matrix I - Carriageway Kerbing							
		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very likely >50mm	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 3 5 working days
	Likely 25 to 50mm	Cat 3 5 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days
	Unlikely <25mm	Defects under 25mm in depth do not need to be recorded.					
		<p>Notes In this Matrix, the measurable defect is the extent to which any part of the kerb protrudes horizontally towards the carriageway from the face of the kerb. Any vertical protrusion relative to the top / horizontal surface of the kerb should be treated as a footway trip - please refer to Matrix L (Footway Trips).</p>					

Defect Response Matrix J – Verge Deterioration

Matrix J - Verge deterioration							
		SEVERITY					
		Extreme	Major	Moderate	Minor	Minor	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
Verge deterioration		300mm wide	300mm wide	300mm wide	300mm wide	300mm wide	300mm wide
Any change in level difference between the metalled surface and the adjacent verge immediately adjacent to the carriageway edge over 10m in length	Very likely >150mm depth	Cat 2 2 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
	Likely 100-150mm	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 6 14 calendar weeks	Cat 7 Potential future works	Cat 7 Potential future works
	Possible 75-99mm	Cat 4 10 working days	Cat 5 20 working days	Cat 6 14 calendar weeks	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
	Rare <75mm	Defects under 75mm in depth do not need to be recorded.					
<p>Notes</p> <p>If verge deterioration is greater than 7.5m and up to 10m in length, drop down 1 category; if the deterioration is greater than 5m and up to 7.5m in length, drop down 2 categories. Verge deterioration less than 5m does not need to be recorded.</p> <p>Laybys Refer to Matrix C - Carriageway Defects</p>							

Defect Response Matrix Q – Road Markings & Studs

Matrix Q - Road Markings & Studs							
SEVERITY							
		Extreme Road Type 2	Major Road Type 3a	Moderate Road Type 3b	Minor Road Type 3b	Minor Road Type 4a	Negligible Road Type 4b
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban culs-de-sac
LIKELIHOOD	Very Likely Stop line	Cat 3 5 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 5 20 working days
	Possible Other priority road markings and studs	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
Notes Priority road markings are: stop and give way markings; markings associated with traffic regulation orders; double line systems; warning markings; formal pedestrian crossings places; mini-roundabouts Priority road studs are those associated with double line road marking systems and other mandatory markings (e.g. hatching edged by solid lines). Any loose road studs will be made safe. Other road markings/studs will only be maintained following carriageway surface treatment and in response to specific hazards.							

DEFECT RESPONSE MATRICES – FOOTWAY AND VERGE

The following matrices are to be used to direct when reactive works are required.

Regardless of the intervention criteria listed above, the application of higher standards may be considered appropriate in sensitive locations such as schools, shopping centres, hospitals and elderly accommodation.

There is also a need to apply footway intervention criteria to areas of carriageway included within controlled pedestrian crossings.

The matrices have been developed through a risk-based approach relating to size and location. Should defects be smaller than those in the main matrix, guidance is provided in the notes section of the relevant matrix detailing how these defects will be categorised.

Defect Response Matrix K – Footway Potholes

Matrix K - Footway Potholes				
SEVERITY				
	Extreme	Major	Moderate	
	Footway Type 1	Footway Type 2	Footway Types 3 & 4 (mandatory cycle lanes c/way)	
	Busy urban shopping and business areas	Medium use routes, local areas local shopping areas	Linking local access ways through urban areas and busy rural areas - low usage	
	Monthly	6 Monthly (Walked)	12 Months (Driven or Walked)	
	100mm diameter	100mm diameter	100mm diameter	
LIKELIHOOD	Likely / Very likely >40mm	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days
	Possible 20 - 40mm	Cat 4 10 working days	Cat 4 10 working days	Cat 5 20 working days
	Rare <20mm	Defects under 20mm in depth do not need to be recorded.		
Notes The above standards apply if within a controlled pedestrian crossing point (e.g. signalised or zebra crossing)				

Defect Response Matrix L – Footway Level Difference

Matrix L - Footway Level Difference				
		SEVERITY		
		Extreme	Major	Moderate
		Footway Type 1	Footway Type 2	Footway Types 3 & 4 (mandatory cycle lanes c/way)
		Busy urban shopping and business areas	Medium use routes, local areas local shopping areas	Linking local access ways through urban areas and busy rural areas - low usage
		Monthly	6 Monthly (Walked)	12 Months (Driven or Walked)
		100mm length	100mm length	100mm length
LIKELIHOOD	Likely / Very likely >40mm	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days
	Possible 20 - 40mm	Cat 4 10 working days	Cat 4 10 working days	Cat 5 20 working days
	Rare <20mm	Defects under 20mm in depth do not need to be recorded.		
	Very likely Any change in level difference between the existing footway and adjacent verge - exceeding 100mm immediately adjacent to the walking surface over 1m in length.	Cat 3 5 working days	Cat 5 20 working days	Cat 7 Potential future works
Notes				
Mandatory cycle lanes on the carriageway should be treated as Type 4 footway for intervention timescales.				
Examples of level differences may be where a paving slab has risen or fallen above the adjacent paving slab causing an abrupt level difference in height between the two surfaces				

Defect Response Matrix M – Footway Ironworks

Matrix M - Footway Ironworks					
		SEVERITY			
		Extreme	Major	Moderate	Minor / Negligible
		1	2	3	4 (Mandatory cycle lanes c/way)
		Busy urban shopping and business areas	Medium use routes, local areas local shopping areas	Linking local access ways through urban areas and busy rural areas	Low usage
LIKELIHOOD	Very likely Missing and collapsed >150 x 150mm	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 2 2 working days
	Likely Missing and collapsed <150 x 150mm	Cat 2 2 working days	Cat 2 2 working days	Cat 2 2 working days	Cat 2 2 working days
	Possible Sunken or risen >20mm	Cat 2 2 working days	Cat 2 2 working days	Cat 5 20 working days	Cat 5 20 working days
	Possible Broken	Cat 5 20 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 5 20 working days
	Unlikely Sunken or risen <20mm	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
	Rare Noisy / worn	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
<p>Notes Reference is required in ordering a defect as to whether the ironwork is missing, collapsed, sunken or broken. For utility covers, refer to Section 81 notes for guidance. For broken covers, if the area broken is 150mm x 150mm or greater, use Missing and collapsed timescales.</p>					

Refer to Appendix 4 for Section 81 guidance – Attending and Reporting Defective Statutory Undertakers Apparatus

Defect Response Matrix P – Vegetation

		SEVERITY					
		Extreme Road Type 2	Major Road Type 3a	Moderate Road Type 3b	Minor Road Type 3b	Minor Road Type 4a	Negligible Road Type 4b
		Strategic 'A' rd Routes	Main Distributer - Major Urban Network and Inter Strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local Roads	Minor rural roads and urban culs-de- sac
		Monthly	Monthly	3 Monthly	3 Monthly	6 Monthly	6 Monthly
LIKELIHOOD	Tree threatening the highway	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 2 2 working days
	Branches threatening to fall into the highway or likely to be in collision with passing vehicles	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days
	Vegetation forcing pedestrians into the carriageway	Cat 2 2 working days	Cat 2 2 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days
	Vegetation forcing traffic into opposing traffic lanes or preventing access for emergency vehicles	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
	Vegetation obscuring visibility at junction	Cat 4 10 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks	Cat 6 14 calendar weeks
	Vegetation affecting overhead or underground utility equipment	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
Notes							
<p>Refer to Road Sign Matrix G for vegetation obscuring signs. For fallen trees refer to the Debris and Spillage Matrix A. Branches are defined as being of significant size, in that if they fell they would cause serious injury or damage.</p> <p>In terms of rows 1 and 2 this is also relevant to a highway tree or its branch, that may fall outside of the highway and has been risk assessed to potentially cause serious injury or damage.</p>							

DEFECT RESPONSE MATRICES - ELECTRICAL ASSETS

The following matrices are to be used to direct when reactive works are required.

The matrices have been developed through a risk-based approach relating to the potential hazard and the likelihood that the hazard might cause harm.

Defect Response Matrix N – Street Lighting & Electrical Equipment

Matrix N - Street Lighting & Electrical Equipment								
		SEVERITY						
		Extreme	Major	Moderate	Minor	Minor	Negligible	Negligible
		Road Type 2	Road Type 3a	Road Type 3b	Road Type 3b	Road Type 4a	Road Type 4b	N/A
		Strategic 'A' rd routes	Main distributor - major urban network and inter-strategic routes	Main rural secondary distributor roads	Main urban secondary distributor roads	Local roads	Minor rural roads and urban cul-de-sac	Non Associated Footpath
LIKELIHOOD	Very likely Damaged equipment following a road traffic collision (e.g. lighting column, illuminated signage, electrical feeder pillar)	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Very likely Electrical cover missing, open or hanging, likely to fall (e.g. lighting column/lantern, illuminated signage, electrical feeder pillar)	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Very likely Illuminated traffic bollard shell damaged and missing	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Possible/unlikely Illuminated signage not lit (i.e. lamp fault)	Cat 3 5 working days	Cat 3 5 working days	Cat 3 5 working days	Cat 4 10 working days	Cat 5 20 working days	Cat 5 20 working days	Cat 5 20 working days
	Unlikely Street light not lit (i.e. lamp fault)	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days	Cat 4 10 working days
	Rare Street lighting column or illuminated sign post leaning but unlikely to fall	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works	Cat 7 Potential future works
<p>Notes</p> <p>Any street furniture identified on the highway where electrical wires are exposed must be treated as a Cat 1 defect.</p> <p>Cat 3 to 5 street lighting and electrical faults identified should be called through to the Control Hub at the Phoenix House SDG.</p> <p>Street lights that are not lit are automatically detected by the Intelligent Lighting System and do not require separately recording.</p> <p>If an illuminated traffic bollard shell is damaged but operational, drop down to a criteria for illuminated signage</p> <p>A street lighting or illuminated sign post should only be recorded if there is clear movement of the ground around the base.</p> <p>Repair times for street or sign lights assume no reliance on a third party e.g. network supplier.</p>								

Defect Response Matrix O – Intelligent Transport Systems

Matrix O - Intelligent Transport Systems					
		SEVERITY			
		Extreme	Major	Moderate	Minor / Negligible
		Priority traffic signal sites	Other traffic signal sites	Weather stations	VAS / VMS
LIKELIHOOD	Very likely Road traffic collision	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Very likely Electrical fault (exposed wires)	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours	Cat 1 2 hours
	Very likely Urgent faults (i.e. all lights out, omitting phase, numerous red lights out)	Cat 1 2 hours	Cat 1 2 hours	Cat 2 2 working days	Cat 3 5 working days
	Possible Non-urgent faults (i.e. lamp out, push button not working)	Cat 2 2 working days	Cat 2 2 working days	Cat 3 5 working days	Cat 4 10 working days
	Rare Broken loops	Cat 5 20 working days	Cat 5 20 working days	Not applicable	Cat 5 20 working days
<p>Notes</p> <p>All ITS faults identified should be called through to the Control Hub at the Phoenix House SDC.</p> <p>Cat 1 is attended in 2 working hours.</p> <p>Priority sites will be attended in 2 hours and brought back into operation in a further 6 hours. Priority sites are managed 24hrs.</p> <p>For other sites, these are managed between the hours of 07.30 and 21.30, Monday to Friday. Any fault received outside of these hours as a Cat 1 or 2 will be made safe.</p> <p>For traffic signals that are obscured by vegetation, use row 1.</p>					

CYCLEWAYS INTERVENTION

The inspection criteria to be applied to cycleways will depend upon the status and position within the highway. (Appendix 2)

For mandatory cycleways, within the carriageway i.e. where defined by a continuous road marking, the relevant carriageway inspection frequency will apply, as will Category 4 footway intervention criteria. (Appendix 1)

For advisory cycleways within the carriageway i.e. where defined by an intermittent road marking, the adjacent carriageway inspection frequency will apply, as will the carriageway intervention criteria.

Shared cycleways and footways will attract the maintenance standards associated with the footway. This is appropriate since footways tend to attract higher maintenance standards than cycleways. (Appendix 2)