

CHECKLIST 4: PRE-OPENING STAGE AUDIT

Issue	Yes	No	Comment
4.1 General topics			
4.1.1 Changes since previous audit; translation of design into practice			
General check: have any matters that have changed since a previous audit been executed safely?			
Has the translation of the design into practice been executed safely?			
4.1.2 Drainage			
Is the drainage of the road and surrounds adequate?			
4.1.3 Climatic conditions			
Are any facilities put in place to counter climatic problems effective?			
4.1.4 Landscaping			
Is the planting and species selection appropriate from a safety point of view?			
Is vegetation/landscaping 'frangible' in locations where vehicles may run off the road?			
Is visibility maintained past or over vegetation/landscaping (particularly for pedestrian safety)? Will this continue to be so once plants grow and mature?			
4.1.5 Services			
Are all boxes, pillars, posts and lighting columns located in safe positions?			
Are they of appropriate materials or design?			
4.1.6 Access to property and developments			
Are all accesses safe for their intended use?			
Are all accesses adequate, particularly in terms of design, location and visibility?			
4.1.7 Emergency vehicles and access			
Are the provisions for emergency vehicle access and stopping safe?			
4.1.8 Batter treatment			
Will the batter treatment prevent or limit debris falling on to the carriageway?			

Issue	Yes	No	Comment
4.1.9 Shoulders and edge delineation			
Are all delineators and reflectors correctly in place?			
4.1.10 Signs and markings			
Are all signs and pavement markings correctly in place?			
Will they remain visible at all times (day and night)?			
Are new markings consistent with existing markings? (check with adjacent road network)			
Have old signs and markings been removed?			
Have all potentially confusing circumstances been avoided or removed?			
4.1.11 Surface treatment; skid resistance			
Are all joints in surfacing free of excessive bleeding or low- skid resistance?			
Have all trafficked areas been checked for similar problems, including loose metal?			
4.1.12 Contrast with markings			
Do the installed road markings have sufficient contrast with the road surface and are they clear of debris?			
4.1.13 Roadside hazards			
Is the scheme free of newly installed or overlooked roadside hazards?			
4.1.14 Natural features			
Is the scheme free of natural features (for example, a bank, rock or major tree) that will be a roadside hazard or an obstruction to visibility?			
4.1.15 All road users			
Is safety adequate for: <ul style="list-style-type: none"> ▪ pedestrian movements? (pedestrians of all ages) ▪ bicycle/non-motorised vehicle movements? ▪ truck and bus movements? ▪ motorcycle movements? ▪ car movements? 			
4.1.16 Speed zoning			
Has the appropriate speed zone been selected?			

Issue	Yes	No	Comment
4.2 Alignment details			
4.2.1 Visibility; sight distances			
Are sight lines free of obstructions?			
4.2.2 New/existing road Interface			
Additional signs and/or markings: have they been considered and provided where required?			
4.2.3 Readability by drivers			
Is the form and function of the road and its traffic management easily recognised under likely operating conditions? (for example, under heavy traffic, minimal traffic or poor visibility conditions)			
Is the transition from old work to new work satisfactory? (i.e. no uncertainty or ambiguity at the transition)			
4.2.4 Bridges and culverts			
Are all markings and signs in place and conspicuous?			
4.3 Intersections			
4.3.1 Visibility of intersection			
Will drivers approaching the intersection be aware of its presence? (especially if required to give way)			
4.3.2 Visibility at intersection			
Are all visibility displays clear for the different driver eye heights of cars, trucks, bicycles, motorcycles, vehicles with restricted visibility?			
4.3.3 Readability by drivers			
Is the form and function of the intersection clear to drivers on all approaches? (check by driving)			
Are Give Way or Stop lines visible in time? Are there sufficient visual cues to prevent overshooting into the conflicting traffic?			
4.3.4 Traffic signals			
Is the alignment of lanterns and general correctness of installation satisfactory?			
Are all applicable lanterns visible from each approach lane at the appropriate distances?			
Are all traffic signals functioning properly and safely?			

Issue	Yes	No	Comment
Are all pedestrian signals functioning correctly and safely?			
4.3.5 Roundabouts and approach islands			
Are the roundabout and islands fully visible and recognisable from all approaches?			
Are all signs, markings and lighting correctly in place?			
4.4 Special road users			
4.4.1 Adjacent land			
Is fencing adequate, particularly on roads where pedestrians and animals are not allowed?			
4.4.2 Pedestrians			
Are all pedestrian facilities likely to operate safely regarding: <ul style="list-style-type: none"> ▪ visibility? ▪ signs? ▪ surfacing? ▪ fencing? ▪ the operation of other hardware, including ▪ lighting? ▪ wheel chairs and prams? ▪ visually impaired people? 			
4.4.3 Cyclists			
Are all cycleways, lanes, etc. and facilities likely to operate safely regarding: <ul style="list-style-type: none"> ▪ visibility? ▪ signs? ▪ surfacing? ▪ fencing? ▪ the operation of other hardware, including ▪ lighting? 			
4.4.4 Motorcyclists			
Has the location of devices or objects that might destabilise a motorcycle been avoided on the road surface?			
Is the roadside clear of obstructions where motorcyclists may lean into curves?			
Will warning or delineation be adequate for motorcyclists?			
Has barrier kerb been avoided in high-speed areas?			
In areas more likely to have motorcycles run off the road is the roadside forgiving or safely shielded?			

Issue	Yes	No	Comment
Are all unnecessary poles, posts and devices removed or appropriately shielded?			
Are drainage pits and culverts traversable by motorcycle?			
4.4.5 Equestrians			
Are all relevant facilities likely to operate safely regarding: <ul style="list-style-type: none"> ▪ visibility? ▪ signs? ▪ other special features? 			
4.5 Lighting, signs and delineation			
4.5.1 Lighting			
Is all lighting operating and, from a safety point of view, is it effective?			
4.5.2 Signs			
Are the correct signs used and are they correctly placed?			
In daylight and darkness, are signs satisfactory regarding: <ul style="list-style-type: none"> ▪ conspicuousness? ▪ clarity of message? ▪ readability/legibility at the required distance? 			
Is sign retroreflectivity or illumination satisfactory?			
Are any variable message signs operating satisfactorily?			
Are all signs necessary?			
Can all signs be seen (i.e. not hidden or camouflaged by their background or adjacent distractions)?			
4.5.3 Marking and delineation			
Is all delineation and road marking placed correctly and fully visible?			
Are RRPMS fully visible with correct spacings, colour, etc.?			
Are all other delineation devices correctly installed (especially location, type and size)?			
Are guide posts adequate and properly spaced?			
Are guide post delineators operating adequately at night?			
Reflectors on crash barrier: are they the correct type, level and spacing and not misleading in alignment?			

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Are all road markings clearly visible at all times to motorists and other road users?			
Is there continuity and uniformity of delineation and markings through the scheme and at transitions?			
4.6 Physical objects			
4.6.1 Median barriers			
Are all necessary median barriers in place and properly signed or delineated?			
Are barriers placed so that they do not restrict visibility or form a roadside hazard?			
4.6.2 Poles and other obstructions			
Are all poles and sign structure bases safely designed and appropriately located?			
Is the scheme free of any other poles or obstructions that may have been missed in other checks?			
Otherwise, are obstructions suitably shielded?			
4.6.3 Crash barriers			
Are all crash barriers in place and safely located (not a hazard in themselves)?			
Is the length of any guard fence adequate?			
Is the guard fence correctly installed, regarding: <ul style="list-style-type: none"> ▪ end treatments? ▪ anchorages? ▪ post spacing? ▪ block outs? ▪ post depth? ▪ rail overlap? ▪ stiffening at rigid obstacles? 			
4.7 Operation			
4.7.1 Operation			
Are all operating features working satisfactorily and can access be gained to them safely?			
4.7.2 Traffic management			
Do all traffic management devices function properly when observed from a moving vehicle?			

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4.7.3 Temporary traffic control/management			
Have all temporary arrangements, signing, etc. been removed and replaced by final arrangements? (for example, signs, signals, lines, construction accesses and temporary barriers)			
4.7.4 Safety aspects not already covered			
Has the scheme been driven and walked to identify any potential problems not already dealt with?			
Have all other matters which may have a bearing on safety been addressed?			