

General Note:

During the design stages of a project, designers are required to maintain a “**Hazard Elimination Checklist**” (part B of this document). The ‘checklist’ records the various significant (high risk) hazards identified by the designer(s) and, where they have been able, details of how they have been eliminated.

It is recognised that not every hazard can be ‘designed out’ and therefore the checklist will also be used to record the residual risks of which the designer(s) are aware.

The checklist provides an audit trail of the design process and may also be used as evidence in the event that a designer is required to defend his or her actions in any HSE investigation.

Copies of parts A and B should be passed to all members of the project team, especially the Principal Designer. Reference must also be made to [GG104 Requirements for safety risk assessment](#)

Part A: Designer’s Hazard Checklist

| | | | |
|--|---|---------------------|----------------------|
| Project Title: | M5 J11 Capacity Improvements | Job No.: | 569549 |
| Project Description: | Undertake drainage surveys, assessments and analysis to determine the drainage design requirements to support the proposed highway improvement scheme, as detailed in the attached survey brief. | | |
| Design Discipline: | Drainage | | |
| Project Type as determined by GG104 (if applicable) | A | Prepared By: | Craig Plowman |

Notes:

1. This section of the document includes a list of potential hazards pertaining to a wide range of situations which may occur across the activities. *Where particular categories do not ordinarily affect the scheme, **Part A may be edited/sections deleted to more accurately reflect the work carried out.***
2. An individual item or a whole section (by ticking the heading) can be noted as not applicable showing you have considered the hazard area and judged it to be not applicable.
3. The list of potential hazards is not exhaustive, and all sections can be added to, or additional sections added, as required. Reference to the Approved Code of Practice may be helpful.
4. All items considered by the designer as having a potential high risk must be addressed on the ‘Hazard Elimination Management Schedule’. Low risk activities can also be included if considered appropriate.
5. Consideration must be given to all populations that may be affected as follows -

| | |
|--|------------------------|
| Population 1 – People directly employed by the Client and who work on the site e.g. Traffic Officers. | ‘Workers’ |
| Population 2 – People in a contractual relationship with the client. | |
| Population 3 – Other parties, including road users, the police and emergency services and non-motorised ‘Users’ such as equestrians, cyclists and pedestrians, as well as those others not in a contractual relationship with the client, such as privately contracted vehicle recovery and vehicle repair providers. | ‘Users’ |
| Population 4 – Third parties includes any person or persons who could be affected by the works, but who are neither using it, nor working on it, i.e. living or working adjacent to the site. | ‘Other Parties’ |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|------------------------------------|---|-------------------------|----------------------|---|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 1. | Existing Environment | | | | |
| 1.1 | Existing buildings | | Yes | | Motorway Maintenance and Police Depot located close proximity to the Junction. |
| 1.2 | Previous/existing land/ structures | NA | | | |
| 1.3 | Roadways | | | Yes | M5 Junction 11 |
| 1.4 | Railways | | | Yes | Birmingham to Gloucester Railway crosses over the carriageway at 83.200km. Both abutment walls are close to the hard shoulder. |
| 1.5 | Water course | | Yes | | Ham Brook crosses M5 at 83.7km. Secondary River crosses M5 at 82.05km. Tertiary River flows through a culvert under the A40 – west of Junction. |
| 1.6 | Ground conditions: | NA | | | |
| | • Contamination | NA | | | |
| | • Ground water | NA | | | |
| | • Instability | NA | | | |
| | • Mineral / mine workings | NA | | | |
| 1.7 | Access restrictions | | Yes | | Propose hard shoulder and lane closures as appropriate for work extents |
| 1.8 | Adjacent properties | | Yes | | Only HE Maintenance & Police Depots adjacent to network, surrounding land is agricultural. |
| 1.9 | Concurrent site activities | NA | | | |
| 1.10 | Interface with the public | | Yes | | Travelling public |
| 1.11 | Occupied premises | | Yes | | Mtce Depot |
| 1.12 | Structural instability | NA | | | |
| 1.13 | Fragile materials | NA | | | |
| 1.14 | Hazardous materials | NA | | | |
| 1.15 | Land use | NA | | | |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|--|---|-------------------------|----------------------|--|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 1.16 | Traffic | | | Yes | All-movements Junction of Motorway and APTR. |
| 1.17 | Others (insert as necessary) | NA | | | |
| 2. | Existing Services | | | | |
| 2.1 | Underground | | | | |
| | <ul style="list-style-type: none"> Electrical | | Yes | | Electrical cable present at various locations throughout the site, as detailed on the C2 Stats drawings as listed in the Pre-Construction Information Pack – Appendix B, the Works Information Pack – Existing Information and the Site Information Pack 1.8 Statutory Undertakers. |
| | <ul style="list-style-type: none"> Gas | | Yes | | Gas main only appears to be present on the farm access overbridge and within the Maintenance Depot, as detailed on the C2 Stats drawings as listed in the Pre-Construction Information Pack – Appendix B, the Works Information Pack – Existing Information and the Site Information Pack 1.8 Statutory Undertakers. |
| | <ul style="list-style-type: none"> Water | | Yes | | Highway surface water drains are present throughout the site. Water main only appears to be present adjacent to M5 NB exit slip and across A40 west of the circulatory, as detailed on the C2 Stats drawings as listed in the Pre- |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|--|---|-------------------------|----------------------|--|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| | | | | | Construction Information Pack – Appendix B, the Works Information Pack – Existing Information and the Site Information Pack 1.8 Statutory Undertakers. |
| | <ul style="list-style-type: none"> Telecommunications | | Yes | | HE Motorway, Network Rail, BT, City and Vodafone communication cables are all present throughout the site, as detailed on the C2 Stats drawings as listed in the Pre-Construction Information Pack – Appendix B, the Works Information Pack – Existing Information and the Site Information Pack 1.8 Statutory Undertakers. |
| | <ul style="list-style-type: none"> Foul water sewer | NA | | | |
| 2.2 | Overhead Services | | | | |
| | <ul style="list-style-type: none"> Electrical | | Yes | | Overhead low voltage cable is present in the Highway Maintenance Depot and the access road to the Police Depot, as detailed on the C2 Stats drawings as listed in the Pre-Construction Information Pack – Appendix B, the Works Information Pack – Existing Information and the Site Information Pack 1.8 Statutory Undertakers. |
| | <ul style="list-style-type: none"> Telecommunications | NA | | | |
| | <ul style="list-style-type: none"> Others (insert as necessary) | NA | | | |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|--|---|-------------------------|----------------------|----------|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 3. | Earthworks | | | | |
| 3.1 | Deep excavations | NA | | | |
| 3.2 | Slope / ground stability | NA | | | |
| 3.3 | Ground water / water courses (refer 1.5) | NA | | | |
| 3.4 | Plant movements | NA | | | |
| 3.5 | Interface with services (refer 2) | NA | | | |
| 3.6 | Contamination (ground / water) | NA | | | |
| 3.7 | Adjacent structures (refer 1.8) | NA | | | |
| 3.8 | Others (surface water) | NA | | | |
| 4. | Foundations | | | | |
| 4.1 | Adjacent buildings/structures | NA | | | |
| 4.2 | Deep excavations | NA | | | |
| 4.3 | Plant movements | NA | | | |
| 4.4 | Interface with services | NA | | | |
| 4.5 | Contamination (ground / water) | NA | | | |
| 4.6 | Ground water | NA | | | |
| 4.7 | Confined spaces | NA | | | |
| 4.8 | Piling: | | | | |
| | • Noise | NA | | | |
| | • Vibration | NA | | | |
| | • Contamination | NA | | | |
| | • Plant | NA | | | |
| 4.9 | Grouting: | | | | |
| | • Drilling work | NA | | | |
| | • Dust | NA | | | |
| | • Pollution | NA | | | |
| 4.10 | Stability of structure | NA | | | |
| 4.11 | Others (insert as necessary) | NA | | | |
| 5. | Services Installation | | | | |
| 5.1 | Excavations | NA | | | |
| 5.2 | Ground water | NA | | | |
| 5.3 | Ground conditions | NA | | | |
| 5.4 | Existing services | NA | | | |
| 5.5 | Testing operations | NA | | | |
| 5.6 | Lifting operations | NA | | | |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|----------------------------------|---|-------------------------|----------------------|--|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 5.7 | Adjacent structures / activities | NA | | | |
| 5.8 | Maintenance | NA | | | |
| 5.9 | Contamination | NA | | | |
| 5.10 | Others (insert as necessary) | NA | | | |
| 6. | Drainage Works | | | | |
| 6.1 | Excavations | NA | | | |
| 6.2 | Ground water | | | Yes | Potential for flow through the substrate |
| 6.3 | Ground conditions | | | Yes | Slips, trips and falls, localised subsidence, falls from height, falling objects or plant, collapse and burial |
| 6.4 | Confined spaces | | Yes | | Access to drainage chambers may be required to set up equipment and/or take measurements. |
| 6.5 | Leptospirosis / Weils disease | | | Yes | Existing natural and highway surface water drainage pipework likely habitat for rats. Fields may contain livestock excrement. Contact through cuts etc. illness. |
| 6.6 | Existing services | | | Yes | As per points 2 above. |
| 6.7 | Manual handling | | | Yes | Muscular skeletal injuries, cuts / grazes from lifting materials. Slips, trips and falls, falling objects. |
| 6.8 | Lifting operations | NA | | | |
| 6.9 | Maintenance | NA | | | |
| 6.10 | Sewage | NA | | | |
| 6.11 | Traffic | | | Yes | As per point 1.3 |
| 6.12 | Contamination (ground / water) | NA | | | |
| 6.13 | Hepatitis B / Tetanus | | | Yes | Contact with disease carrying substance, illness. All staff to have up to date inoculations |
| 6.14 | Surface water | | Yes | | Care to be taken slipping in surface water after rainfall, or tripping/falling into |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|--------------------------------------|---|-------------------------|----------------------|---|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| | | | | | open ditches or swale drains |
| 7. | Highways | | | | |
| 7.1 | Traffic management | | | Yes | Hard shoulder, lane 1 and lane 3 closures of mainline and slips for work extents |
| 7.2 | Adjacent traffic | | | Yes | As per point 1.3 |
| 7.3 | Construction materials | NA | | | |
| 7.4 | Structural works | NA | | | |
| 7.5 | Adjacent structures | | Yes | | Rail Overbridge 83/2 Farm access Overbridge 83/05 Bamfurlong Lane Overbridge 82/1 |
| 7.6 | Noise | NA | | | |
| 7.7 | Vibration | NA | | | |
| 7.8 | Dust | NA | | | |
| 7.9 | Moving Plant / concurrent activities | NA | | | |
| 7.10 | Reversing vehicles | | Yes | | In accordance with PC reversing vehicle policy. |
| 7.11 | Night working | | Yes | | Reduced visibility |
| 7.12 | Weather | | Yes | | Poor visibility for workforce. |
| 7.13 | Others (insert as necessary) | NA | | | |
| | | | | | |
| 8. | Steelwork Construction | | | | |
| 8.1 | Working at height | NA | | | |
| 8.2 | Lifting operations | NA | | | |
| 8.3 | Temporary stability | NA | | | |
| 8.4 | Connections | NA | | | |
| 8.5 | Unusual sequence | NA | | | |
| 8.6 | Materials, e.g. paints | NA | | | |
| 8.7 | Consideration of future maintenance | NA | | | |
| 8.8 | Others (insert as necessary) | NA | | | |
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| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|---|---|-------------------------|----------------------|----------|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 9. | Concrete Construction | | | | |
| 9.1 | Working at height | NA | | | |
| 9.2 | Plant restrictions | NA | | | |
| 9.3 | Lifting operations | NA | | | |
| 9.4 | Noise | NA | | | |
| 9.5 | Vibration | NA | | | |
| 9.6 | Temporary instability | NA | | | |
| 9.7 | Pre/post tensioning | NA | | | |
| 9.8 | Materials | NA | | | |
| 9.9 | Maintenance | NA | | | |
| 9.10 | Joints (scabbling should not be undertaken) | NA | | | |
| 9.11 | Others (insert as necessary) | NA | | | |
| 10. | Masonry Construction | | | | |
| 10.1 | Manual handling | NA | | | |
| 10.2 | Lifting operations | NA | | | |
| 10.3 | Materials | NA | | | |
| 10.4 | Temporary stability | NA | | | |
| 10.5 | Working at height | NA | | | |
| 10.6 | Dust | NA | | | |
| 10.7 | Durability | NA | | | |
| 10.8 | Catastrophic collapse | NA | | | |
| 10.9 | Others (insert as necessary) | NA | | | |
| 11. | Timber Construction | | | | |
| 11.1 | Materials | NA | | | |
| 11.2 | Working at height | NA | | | |
| 11.3 | Temporary stability | NA | | | |
| 11.4 | Lifting operations | NA | | | |
| 11.5 | Manual handling | NA | | | |
| 11.6 | Fire | NA | | | |
| 11.7 | Dust | NA | | | |
| 11.8 | Others (insert as necessary) | NA | | | |
| 12. | Cladding | | | | |
| 12.1 | Lifting operations | NA | | | |
| 12.2 | Manual handling | NA | | | |
| 12.3 | Maintenance / cleaning | NA | | | |
| 12.4 | Others (insert as necessary) | NA | | | |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|--------------------------------------|---|-------------------------|----------------------|--|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 13. | Glazing | | | | |
| 13.1 | Manual handling | NA | | | |
| 13.2 | Lifting operations | NA | | | |
| 13.3 | Cleaning / maintenance | NA | | | |
| 13.4 | Others (insert as necessary) | NA | | | |
| 14. | Mechanical/Electrical Systems | | | | |
| 14.1 | Access | NA | | | |
| 14.2 | Existing services | NA | | | |
| 14.3 | Manual handling | NA | | | |
| 14.4 | Materials / substances | NA | | | |
| 14.5 | Confined spaces | NA | | | |
| 14.6 | Pressure systems | NA | | | |
| 14.7 | Testing operations | NA | | | |
| 14.8 | Fixings | NA | | | |
| 14.9 | Working at height | NA | | | |
| 14.10 | Maintenance | NA | | | |
| 14.11 | Others (insert as necessary) | NA | | | |
| 15. | Railway Activities | | | | |
| 15.1 | Train movements | | Yes | | Birmingham to Gloucester Railway crosses over the carriageway at 83.200km. |
| 15.2 | Overhead lines | NA | | | |
| 15.3 | Electrified track | NA | | | |
| 15.4 | Underground services | NA | | | |
| 15.5 | Adjacent structures | | Yes | | Birmingham to Gloucester Railway crosses over the carriageway at 83.200km. Both abutment walls are close to the hard shoulder. |
| 15.6 | Ground stability | NA | | | |
| 15.7 | Contamination | NA | | | |
| 15.8 | Others (insert as necessary) | NA | | | |
| | | | | | |
| | | | | | |

| Potential Hazards Arising From: | | Risk (without designer's elimination / management measures) | | | Comments |
|---------------------------------|---|---|-------------------------|----------------------|----------|
| Ref: | | Not Applicable | Low- NO Action Required | High – Action NEEDED | |
| 16. | Demolition of Existing Structures | | | | |
| 16.1 | Services | NA | | | |
| 16.2 | Adjacent / adjoining structures | NA | | | |
| 16.3 | Materials: | NA | | | |
| | • Hazardous i.e. asbestos | NA | | | |
| | • fragile | NA | | | |
| 16.4 | Working at height | NA | | | |
| 16.5 | Temporary stability | NA | | | |
| 16.6 | Pre/post tensioning | NA | | | |
| 16.7 | Noise | NA | | | |
| 16.8 | Vibration | NA | | | |
| 16.9 | Dust | NA | | | |
| 16.10 | Effect on usage of demolition materials | NA | | | |
| 16.11 | Others (insert as necessary) | NA | | | |
| 17. | Future Demolition / decommissioning of new structure/installation | | | | |
| 17.1 | Unusual sequence | NA | | | |
| 17.2 | Pre/post tensioned element | NA | | | |
| 17.3 | Materials | NA | | | |
| 17.4 | Adjacent/adjoining structure | NA | | | |
| 17.5 | Temporary stability | NA | | | |
| 17.6 | Contamination during usage of demolition material. | NA | | | |
| 17.7 | Others (insert as necessary) | NA | | | |
| 18. | Maintenance and Operation of Facility / Structure etc. | | | | |
| 18.1 | Access | NA | | | |
| 18.2 | Safety equipment | NA | | | |
| 18.3 | Testing / inspection | NA | | | |
| 18.4 | Procedure | NA | | | |
| 18.5 | Contamination during usage of demolition material. | NA | | | |
| 18.6 | Others (insert as necessary) | NA | | | |
| 19. | Use of the structure as a workplace | | | | |
| 19.1 | Does the proposed use of the structure / premises include the intention for it to be made available to any person as a place of work | NA | | | |
| 19.2 | If yes; the design and materials used must take in to account the provisions of the Workplace (Health, Safety and Welfare) Regulations 1992 | NA | | | |

Part B: Hazard Elimination Checklist

| | | | |
|-----------------------------|--|--------------------------------|-------------------------------|
| Project Title: | M5 J11 Capacity Improvements | HE Job number: 569549 | |
| Project Description: | Undertake drainage surveys, assessments and analysis to determine the drainage design requirements supporting the proposed highway improvement scheme, as detailed in the attached survey brief. | | |
| Design Discipline: | Drainage | Prepared By: [REDACTED] | Checked By: [REDACTED] |

Reviewed and approved by:

| Name | |
|------------|------------|
| [REDACTED] | [REDACTED] |

- * **Persons at Risk:** (1) Workers (2) Users (3) Other parties
- ** **Action by:**
- | | |
|--|---|
| <ul style="list-style-type: none"> Principal Designer Designer Principal Contractor Other designer Client | <ul style="list-style-type: none"> - Include within the H&S file - include in the pre-construction information - manage risk during the construction phase - take into consideration when preparing their designs - pass information to designers / Principal designer |
|--|---|

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| Ref. | Activity | Hazard | Persons at Risk * | Design Measures taken, or being taken to eliminate or reduce the hazard | Information on the Residual Risk | Principal Designer Review | Action Req'd by: ** |
|--|--|---|-------------------|---|--|---------------------------|---------------------|
| 1.1 1.8 1.11 | Adjacent properties and existing buildings | Working close proximity to adjacent buildings | 1/2 | Undertake preliminary site visit and provide site staff with detailed location plans to establish adjacent buildings. Notify and liaise with building occupiers of intended site surveys. Complete any building inductions as necessary. Site survey work should be contained to the motorway verges. | Minimal residual risk | | Contractor |
| 1.5 | Natural water course | Site staff tripping or slipping and falling into the water course | 1/2 | Undertake preliminary site visit and provide site staff with detailed location plans to establish location of streams and culverts. Temporary safety fencing to be installed, if required. | Minimal residual risk | | Contractor |
| 1.3 1.7 1.10 1.16 6.11 7.1 7.2 | Working adjacent to live lanes | Live traffic adjacent to work area | 1/2/3 | Hard shoulder, Lane 1 and/or Lane 3 closures. Staff training and competency. Site induction and Task & Safety Briefings. Full PPE/PPC to be worn and used. Vehicles to be chapter 8 compliant. | Greatly reduced risk due to these measures | | Contractor |

| Ref. | Activity | Hazard | Persons at Risk * | Design Measures taken, or being taken to eliminate or reduce the hazard | Information on the Residual Risk | Principal Designer Review | Action Req'd by: ** |
|--|---|--|-------------------|--|--|---------------------------|---------------------|
| 1.4 7.5 15.1 15.5 | Working adjacent to railway (underneath rail overbridge). | Train movements, material falling from overbridge, limited clearance on hard shoulder at overbridge. | 1/2 | Site staff need to be made aware of the location of the overbridge, and lateral clearances at the abutments. Hard shoulder closure for the survey works. | Minimal residual risk | | Contractor |
| 1.7 7.1 7.2 | Access restrictions | Exposed work area | 1/2/3 | Hard shoulder, Lane 1 and/or Lane 3 closed to public, access for work vehicles only | Prevent unauthorised or accidental entry | | Contractor |
| 1.10 1.16 6.11 | Traffic | Live traffic near to works | 1/2/3 | Hard shoulder, Lane 1 and/or Lane 3 closures. Staff training and competency. Site induction and Task & Safety Briefings. Full PPE/PPC to be worn and used. Vehicles to be chapter 8 compliant. | Will greatly reduce risk | | Contractor |
| 2.0 2.1 2.2 | Services | Coming into contact with underground and overhead services | 1/2 | Obtain C2 plans/check verge for markers/look overhead. Competent and trained person to carry a full CAT and visual survey, mark out services before any work commences. | Overheads within the works area, cable heights to be determined by a competent person prior to works start | | Contractor |
| 6.2, 6.3, 6.4, 6.5, 6.6, 6.11, 6.13, | Drainage Works | Contact with potentially contaminated highway sediments, runoff and organic materials in existing system. Blood Bourne Viruses (BBV's) and leptospirosis. Working in drainage chambers and/or culverts. Crushing hazards, slips trips and falls, third party tampering with equipment and plant left on site. Contamination / pollution. Culverts. Existing services -buried. Ground water levels. . Construction materials. | 1/2 | Contractor to make all site personnel aware of the risks and the symptoms of Blood Bourne Diseases such as leptospirosis and ensure suitable PPE and welfare facilities are present for site personnel. Confined spaces to only be entered by competent personnel using safe systems of work. CAT & Genny to be used to locate services prior to excavation. Trial holes to locate buried services and foundations as required. Water treated in accordance with CEMP procedures prior to discharge. | Unable to avoid complete contact with construction materials & potentially contaminated highway sediments or organic materials. Contractor to ensure that all site personnel have appropriate PPE including suitable eye protection and waterproof gloves. | | Contractor |

| Ref. | Activity | Hazard | Persons at Risk * | Design Measures taken, or being taken to eliminate or reduce the hazard | Information on the Residual Risk | Principal Designer Review | Action Req'd by: ** |
|------------|--------------------|--|-------------------|--|---|---------------------------|---------------------|
| | | | | No plant to be left on site. Over pumping the surface water upstream prior to excavation or not carry out works in extreme weather. | | | |
| 6.7 | Manual handling | Slips, trips and falls Muscular skeletal injuries | 1/2 | Design proposals aim to reduce the weight of materials and therefore risk posed due to manual handling or lifting operations. Specifications are appropriate for the scope of the design and not oversized or over-engineered. Preliminary site surveys undertaken to identify overhead and trip hazards. Good 'housekeeping' and site cleanliness to be controlled by the contractor to reduce the risks of manual handling injuries, slips, trips and falls. | Manual handling operations remain unavoidable. Contractor to ensure that all site personnel have suitable PPE, lifting equipment and training. Residual risk acceptable. | | Contractor |
| 7.1 7.2 | Traffic management | Live traffic near to works | 1/2/3 | Hard shoulder, Lane 1 and/or Lane 3 closures. Staff training and competency. Site induction and Task & Safety Briefings. Full PPE/PPC to be worn and used. Vehicles to be chapter 8 compliant. | Appropriate TM safety zones should protect work force and travelling public. | | Contractor |
| 7.10 | Reversing vehicles | Vehicles reversing within site | 1/2/3 | All reversing vehicles to follow Principal Contractors reversing vehicle policy. | Site movements should be planned to reduce the need for reversing vehicles | | Contractor |
| 7.11 | Night working | Reduced visibility | 1/2/3 | Site lighting to be installed. | Visibility may still be reduced but risk is lower | | Contractor |

| Ref. | Activity | Hazard | Persons at Risk * | Design Measures taken, or being taken to eliminate or reduce the hazard | Information on the Residual Risk | Principal Designer Review | Action Req'd by: ** |
|------|----------|----------------------------------|-------------------|--|----------------------------------|---------------------------|---------------------|
| 7.12 | Weather | Poor visibility from rain or fog | 1/2/3 | Only carry out works in suitable weather conditions. Forecast to be checked. | Monitor weather forecast | | Contractor |

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