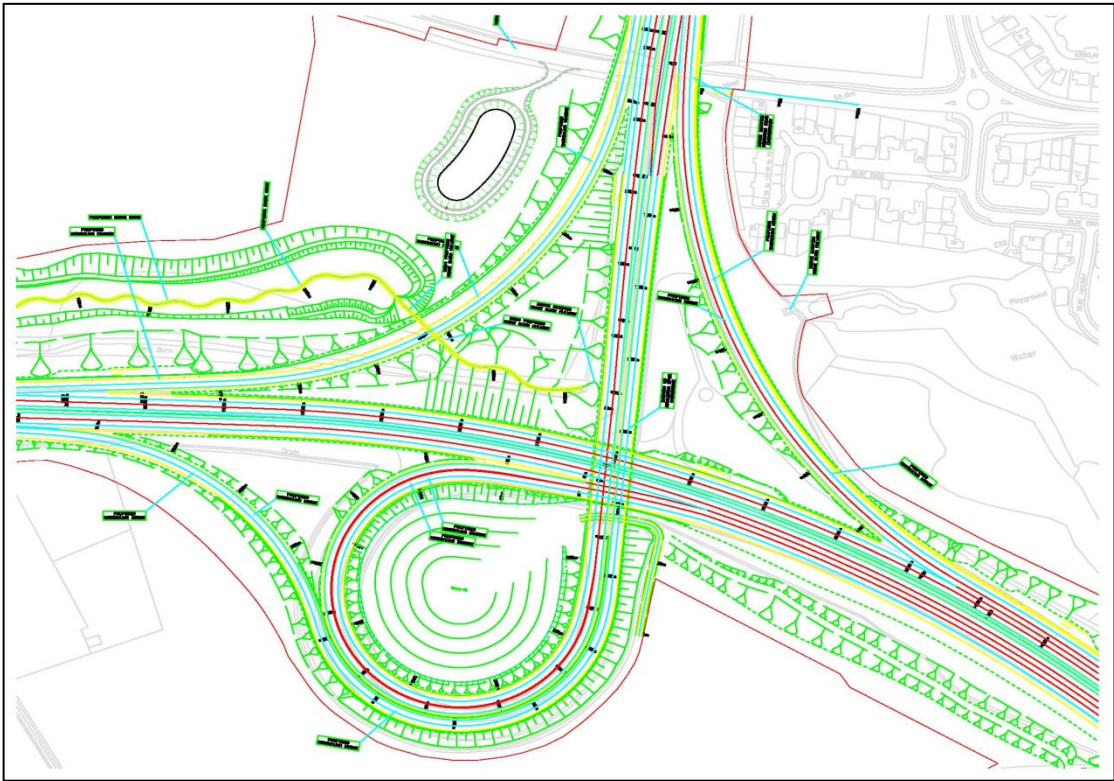




# FORTH REPLACEMENT CROSSING M9 Junction 1a – Project Quality Plan: Volume 4 AREA MANAGEMENT PLAN



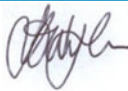



# FORTH REPLACEMENT CROSSING M9 Junction A1

## Area Management Plan

**CONTROLLED DOCUMENT**  
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Revision Record					
Rev	Date	By	Summary of Changes	Chkd	Aprvd
01	18th September 2011	RT	Reflect EDT, Statutory Bodies and Local Authorities Consultations and Review	SOB	SOB
02	14 <sup>th</sup> March	RT	Six monthly review by SRB	SOB	SOB

## Introduction

The Area Management Plan is the overarching plan for the construction works.

## Site Procedures

This section sets out the relevant procedures and responsibilities for implementing the Area Management Plan and includes:

### The contractor's management team and structure

The SRB management team and structure are attached in Section 4.2 of the CEMP.

## Working hours

Normal working hours will be Monday to Friday 0800 to 1900 hours and Saturday 0800 to 1800 hours. There will be a 30 minutes start-up time prior to 0800 hours on weekdays. This will allow time for staff to arrive at site, prepare for the construction works and travel to the designated area on site. There will also be a 30 minute close-down period to be included within normal working hours. This will enable SRB personnel to depart from the wider site to return to the main site offices.

Where works outside these hours are considered necessary e.g. for setting up of traffic management measures then the approval of the Employer's Representative will be sought, supported by the relevant technical information, PCNV's etc. and through the consent procedures detailed in Section 5 of the CoCP.

Where construction works are permitted to be undertaken out with the normal working hours SRB will provide information regarding these works to the relevant local authorities and adjacent residents through the communications strategy described in Section 2 of the CoCP. The notification will include an explanation of the construction works to be undertaken, working hours, measures to be implemented to control construction noise, disturbance and details of the enquiries and complaints procedure.

Certain 'exceptional works' may require to be undertaken outwith normal working hours. Exceptional works are works which it would not be reasonably practicable to undertake during normal working hours and may include:

- Construction works which are required in response to an emergency;
- Construction works which are required as directed by the Police or other emergency services;
- Construction works being undertaken as normal works which could give rise to any damage, be unsafe or be detrimental to the integrity of the works if they were not completed; and
- Servicing of plant essential to maintain safe operation of the site.

SRB will notify the Employer's Representative and the relevant local authority, Network Rail or Statutory Undertakers, as appropriate, of any exceptional works that are necessary as soon as possible.

## Construction site layout and appearance, including site compounds

SRB has appointed a Site Operations Manager who is responsible for site facilities and implementing the procedures and reasonable precautions set out in the Area Management Plan such that the site facilities are managed, operated, maintained and serviced effectively to reduce disturbance and other environmental impacts associated with day-to-day site activities.

SRB will operate a "Good Housekeeping Policy" in line with the Considerate Constructors' Scheme objectives. This will cover site offices, compounds and the general construction site.

The site compound offices will be located with access of the existing B9080 approximately 238m west of Newmains Bridge (See Appendix A of CEMP – Drawing 17867/H/CO/002). The Full Site Address is:

M9 Junction 1a Site Offices,  
101 Stirling Road,  
Kirkliston  
EH29 9GA

The site compound layout will facilitate adequate personnel parking, site offices, canteen facilities, plant and materials storage and laydown.

SRB will undertake construction and provide adequate mitigation measures to meet the requirements of the Environmental Statement and the CoCP to mitigate the effect of the construction or operation of site offices and compounds.

The layout, appearance and operation of the construction site, site offices and compounds will be managed taking consideration of the following requirements:

- The site office and compound layouts will segregate construction vehicles and pedestrian movements (See Appendix A – Drawing 17867/H/CO/002)
- All working areas will be kept in a clean and tidy condition.
- Smoking areas at site offices/compounds or work sites will be equipped with containers for smoking waste and will not be located at the boundary of working areas or adjacent to neighbouring land.
- All necessary measures will be taken to minimise the risk of fire, including preparing a Fire Safety Plan, and the contractor will comply with the requirements of the local fire authority.
- Radios (other than two-way radios for the purposes of communication related to the works) and other forms of audio equipment with loudspeakers will not be operated on any work site, unless it is related to the construction works being undertaken.
- Workers will maintain a reasonable and appropriate standard of dress at all times and will not use foul language or display lewd or derogatory behaviour.
- Appropriate measures, such as use of enclosed containers, will be employed to store waste susceptible to spreading by wind or liable to cause litter.
- Rubbish will be removed at frequent intervals and the site kept clean and tidy.
- Fencing and hoardings will be frequently inspected, repaired and repainted as necessary.
- Adequate welfare facilities will be provided for all construction staff. All toilets will be serviced and kept clean.
- Food waste will be removed frequently, see the Waste Management Plan
- Good personal hygiene will be promoted by the contractor for the workforce, particularly when using site canteens or mess facilities.
- Site accesses, accesses to site offices/compounds and roads in the vicinity of site access points will be maintained clean as required.
- The requirements of the CoCP relating to noise and vibration.
- The requirements of the CoCP relating to the handling, storage and disposal of materials.
- Appropriate management and disposal of foul water and sewage.

### **Site access, approved routes and delivery arrangements**

The Deputy Project Manager in conjunction with the Traffic Safety and Control Officer (TSCO) will co-ordinate the delivery of materials / supplies and all site access arrangements in compliance with the Permitted Access Routes Detailed in Volume 5: Employer's Requirements, Appendix 1/19. The Environmental Manager has prepared and distributed a Site Location Map for agreed Site Access Points with the Employer and has informed suppliers and personnel of these locations.

The Deputy Project Manager will co-ordinate the SRB response and resource requirements required to provide vehicle recovery on compliance with Volume 5: Employers Requirements Appendix 1/20.

## Assessment of the Firth of Forth for delivery of construction materials and elements

The Sustainability Manager has assessed the suitability of the Firth of Forth for delivery of materials and elements prior to the Works commencing. This is included in the SRB Materials Transportation Strategy. The Firth of Forth was not deemed suitable for use in transporting goods and materials to the M9J1a Project.

## Land Made Available Fencing and hoarding

Prior to the start of construction, SRB identified the land area to be occupied by the construction works.

SRB will undertake a joint survey of any land made available temporarily by the Scottish Ministers with the relevant landowner, or their representative, to record the condition of the land prior to entry to the land being taken. A photographic and video record of the condition of the land will also be taken by the contractor.

SRB will liaise with the relevant roads authority regarding condition surveys for public roads and any remedial works necessary as a consequence of the works.

SRB will fence off active working areas adequately from members of the public and to prevent animals from straying into working areas. Fencing and hoarding will take into consideration the following:

- When considering the temporary and permanent design, SRB shall make provision for the movement of wildlife to and from storage, attenuation or settlement ponds or otherwise, as agreed with the Employer.
- Maintaining adequate site security. SRB will undertake a risk assessment as part of the design process for fencing and/or hoardings.
- The location of the construction site, use of adjacent land and risk of the public trying to seek unauthorised entry to the site.
- The nature of the construction activities to be undertaken.
- Specific mitigation associated with site fencing and security to comply with the Environmental Statement and discipline management plans.
- Hoardings will include noise-attenuating structures as appropriate (particularly in the Gateside / King Edwards Way area).
- Gates or access points in the site boundaries, fencing or hoardings, will be positioned and constructed to mitigate the effects of noise transmitted from the site to nearby noise sensitive properties, as described in the Environmental Statement, subject to ensuring the safety of public or the safe operation of the construction site or works.
- The location and design of site boundaries, hoardings and temporary structures on or adjacent to public roads will maintain adequate visibility at junctions and forward visibility on roads to levels acceptable to the relevant roads authority.
- Where hoardings affect visibility on pedestrian routes SRB will provide bulkhead lights and these will be illuminated in times of darkness. Lighting will be inspected and maintained on a regular basis
- Where used, SRB will paint hoardings on the side facing away from the working area in a colour and style approved by the Employer's Representative. Viewing panes will be provided in hoardings to allow the public to see the works, subject to them not diminishing the efficiency of the hoardings with regard to security and noise attenuation or their use leading to the creation of hazards or obstructions on public roads or footpaths.

SRB will not display or allow to be displayed any advertisement or notice and the like, including illicit bill or fly posting on any hoardings. All graffiti, fly posting or defacement to hoardings will be removed and made good within 48 hours of discovery.

An information board will be erected by SRB at prominent positions at each working area, including site accesses, offices and compounds, the fenceline adjacent to the leisure centre and the site access on the north side of the M9 motorway Bridge on the B800, providing information on the work programme and estimated duration of the overall works in the area, together with the Project website address and relevant contact details for the Enquiries and Complaints Procedure.

SRB will remove all temporary fencing and hoarding following completion of work and following consideration for any ongoing need to retain fencing and hoarding.

SRB will seek to minimise the area of land used for the Project. If any land is deemed surplus to requirements following construction of the Project, the Scottish Ministers will seek to dispose of this land in accordance with normal procedures.

### **Use of artificial lighting**

Site lighting may be required in the following situations:

- Provision of background lighting for contractor's offices or compounds, for security and safe movement of staff during winter mornings and evenings.
- Provision of temporary road lighting along temporary access roads.
- Provision of bulkhead lighting for pedestrian walkways
- Provision of temporary road lighting to maintain at least an equivalent level of lighting where there is existing lighting in place prior to construction.
- Provision of temporary road lighting where there is currently no lighting but lighting is required as a safety measure under temporary traffic management, for example at carriageway cross-overs and where temporary access roads cross existing public roads.
- Provision of task lighting required for night time activities or winter afternoon activities, such as installation of bridge beams.
- Provision of aircraft warning lights to safely identify the main towers and construction plant or apparatus.

SRB will consult with the airport operator of Edinburgh Airport regarding any construction activities which may affect the airport controlled airspace and the use of appropriate lighting or other warning measures to be implemented. The contractor will obtain any consents necessary for construction works within the airport controlled airspace.

SRB will take consideration of the following requirements in relation to the provision of temporary lighting:

- The lighting design will seek to reduce visual intrusion and light spillage, including avoiding unnecessary use of lighting, at nearby residential properties and sites of ecological interest, insofar as is consistent with the safe and efficient operation of the construction site.
- Where necessary, lighting to site boundaries will be provided with illuminations sufficient for the safety of the passing public.
- Lighting will be positioned and directed to reduce nuisance to residents and avoid creating distractions or confusion to passing drivers on adjacent public roads and railways.
- Where necessary, lighting at locations where the road layout is to be changed will be provided by early commissioning of permanent new lighting where feasible or by provision of mobile lighting towers or use of columns in temporary locations.
- Special consideration of lighting requirements will be required in the vicinity of Edinburgh Airport and the existing rail network and the contractor will agree lighting requirements with the relevant authorities prior to the commencement of works which may affect their areas of responsibility.
- So far as reasonably practicable, all power to temporary traffic signals or lighting will be taken from mains supplies rather than from portable generators.

SRB will take reasonable precautions in accordance with the Scottish Government Guidance: Controlling Light Pollution and Reducing Lighting Energy Consumption insofar as it is applicable to use of lighting associated with the construction works.

SRB will comply with the requirements of the relevant roads authority with regards to temporary lighting on or adjacent to public roads.

SRB will comply with the requirements of the Environmental Protection Act 1990, as amended, with regards to preventing or counteracting the effects of any nuisance due to artificial lighting.

#### **Requirements associated with living accommodation**

SRB understand that no living accommodation will be permitted on land made available by the Scottish Ministers for the Project or on the construction site, except with the approval of the relevant local authority and/or the Employer's Representative as appropriate. Mess rooms, locker rooms, welfare facilities and showers are understood to be permitted.

#### **Pest control procedures**

SRB will implement adequate arrangements for the disposal of food waste or other material attractive to pests or vermin to control the risk of infestation. If infestation occurs the SRB will take such actions as is necessary to deal with it, as required by the relevant local authority.

#### **Site security procedures**

SRB will be responsible for the security of the construction site and will establish appropriate security measures to protect the public and prevent unauthorized entry to or exit from the site. SRB will close and lock site gates when there is no site activity and implement site security measures.

SRB will consider the need for security cameras and will provide these as considered necessary to maintain the security of the site and safety of the public. Where security cameras are used, they will be placed in locations which will not cause offence or unduly infringe upon the privacy of local residents.

#### **Requirements for clearance of the construction site on completion of the construction works**

SRB will clear and clean all working areas as work proceeds and when no longer required for the carrying out of construction works. This will also include areas adjacent to the site which may require to be cleared or cleaned due to construction activities and site accesses and roads in the vicinity of site access points.

Where land has been made available by the Scottish Ministers on a temporary basis for construction of the Project SRB will reinstate this land in accordance with the provisions in the Forth Crossing Bill prior to it being returned to the relevant landowner.

#### **Consents and Licenses**

SRB will maintain a Consents Register which will document all consent requirements and record all applications made and the status of the applications.

#### **Reference to the specific management plans to be prepared including the persons responsible for ensuring they are implemented.**

The Environmental Manager will be responsible to ensuring that the specific management plans are implemented in accordance with the requirements of the Environmental Statement and the CoCP. The Environmental Manager will report directly to the Project Manager and will have the necessary authority to stop or modify the works to ensure environmental compliance.

#### **Monitoring Measures to be employed**

Daily Site Walkover - A daily site walkover will be carried out by the Environmental Manager. This will cover all areas of the works including watercourses, compound, site access points, monitoring points and the LMA. During this walkover, compliance with the measures in the Area Management Plan and the other Management Plans will be determined.

Weekly Environmental Site Inspection – The Environmental Manager will carry out a weekly site inspection check on the aspects of the works listed above. Where deficiencies are observed or opportunities for improvement noted, an action required will be agreed with the Section Engineer responsible for this section of the works and a timescale for this action to be carried out. Where actions are not carried out within the agreed timescale, an NCR will be raised and this procedure used to progress the action.

## References

- BS OHSAS 18001:2007 Occupational Health and Safety Management Systems
- Construction (Design and Management) Regulations 2007
- Controlling Light Pollution and Reducing Lighting Energy Consumption, Scottish Government Guidance Note, March 2007
- Environmental Protection Act 1990, as amended
- Explosives Act 1875, as amended
- Forth Road Bridge Byelaws for the Management, Regulation and Control of the Forth Road Bridge
- Forth Ports Authority, Forth Byelaws
- Health and Safety at Work etc Act 1974
- Management of Health and Safety at Work Regulations 1999, as amended
- Planning etc. (Scotland) Act 2006
- Prevention of Damage by Pests Act 1949
- The Diving at Work Regulations 1997
- The Diving Operations at Work Regulations 1981, as amended
- The Control of Explosives Regulations 1991
- The Control of Noise at Work Regulations 2005
- The Control of Substances Hazardous to Health Regulations 2002, as amended
- The Control of Vibration at Work Regulations 2005
- The Electricity at Work Regulations 1989
- The Work at Height Regulations 2005, as amended
- Town and Country Planning (Scotland) Act 1997



**Appendix A – Drawing 17867/H/CO/002**  
**Site Compound Layout**

