

PROPOSED RESIDENTIAL DEVELOPMENT

309 Dickenson Road Manchester M13 0NR

Construction Management Plan

Project Name	309 Dickenson Road
Project Number &Address(s)	309 Dickenson Road Manchester M13 0NR
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Prepared By	Soteria (UK) Ltd
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CONTENTS

1.0	CONTROL OF DOCUMENT	3
2.0	INTRODUCTION	3
3.0	PROJECT ORGANISATION AND RESPONSIBILITIES	3
3.1	Client Project Manager	4
3.2	Contracts Manager	5
3.3	Principal Designer & HS&E Specialists	5
3.4	Site Manager	5
4.0	PROJECT COMMUNICATION AND CO-ORDINATION	5
5.0	TRAINING	6
6.0	OPERATIONAL CONTROL	6
7.0	CHECKING AND CORRECTIVE ACTION	6
8.0	ENVIRONMENTAL CONTROL MEASURES	6
8.1	Enabling Works/Formation of Site Perimeter	6
8.2	Excavation and Ground Works	6
8.2.1	Location of Underground Works	6
8.2.2	Excavations	7
8.3	Highways	7
8.3.1	Construction Phase Traffic	7
8.3.2	Management of Vehicle Access/Egress, Deliveries, Loading/Unloading of Plant Material	7
8.4	Air Quality	8
8.5	Construction and Vibration	8
8.5.1	Construction Noise	8
8.5.2	Construction Vibration	9
8.5.3	Crane and Heavy Lifting	9
8.6	Control of Watercourses, Groundwater	9
8.6.1	Water Management and Pollution	9
8.6.2	Wheel Wash	9
8.6.3	Storage of Materials	10
9.0	COMPLAINTS PROCEDURE	10
10.0	SUMMARY	10
11.0	CLOSURE	10
12.0	APPENDIX	10
12.1	Site Management Plan	10

1.0 CONTROL OF DOCUMENT

Issue No:	Date	Version Ref:	Brief Description of Amendment
1	26.05.23	1.1	Initial draft for review
2	05.06.23	1.2	Inserted information on site plan and traffic plan
Distribution		Purpose of Issue	Version Number
Jonathan Clarke-Tomlinson		Initial draft for review	1.1
Jonathan Clarke-Tomlinson		Update	1.2

2.0 INTRODUCTION

The site is located immediately to the north of Dickenson Road, and to the east of Birch Lane, Longsight, Manchester, M13 ONR. The construction phase of 309 Dickenson Road, Manchester, project needs to be carefully controlled so as not to have significant impacts on the environment and the local community. Both the client and the construction contractor have key responsibilities in ensuring that these environmental impacts are controlled adequately. The project will involve the construction of 2x 3-storey dwellings.

Management during the construction works will be delivered through the development of a Construction Phase (Health and Safety) Plan (CPP). However, the purpose of this Construction Management Plan (CMP) is to outline how the construction project will avoid, minimise, or mitigate effects on the environment and surrounding area in addition to detailing how construction works will be undertaken and managed in accordance with the Planning Application, Planning Conditions, contractual and legislative requirements and construction industry best practice.

This CMP forms part of the planning application documentation for the project and provides details on the requirements for the management of environmental impacts associated with the construction phase of the project together with a suggested framework from which the CPP will be produced.

The contract documentation for the works will include the CMP (updated to take account of any commitments agreed during the planning process) and will ensure that there is a requirement on the principal contractor to comply with the actions set out in the CMP and to demonstrate to the client how they intend to identify further environmental impacts and implement the detailed mechanisms for managing the impacts of works on site.

All site works will be undertaken in compliance with the CMP. The CMP includes details of the topics listed below, further information on which is given in the following sections.

- Project Organisation and Responsibilities.
- Project Communication and Co-ordination.
- Training.
- Operational Control.
- Checking and Corrective Action.
- Complaints Procedure.

The CPP will be reviewed during the construction process and will include information on the review procedures.

3.0 PROJECT ORGANISATION AND RESPONSIBILITIES

The CMP will clearly define the role and responsibilities of the project team. Figure 3.1 details the management chain with descriptions of each team member being provided in the following sections.

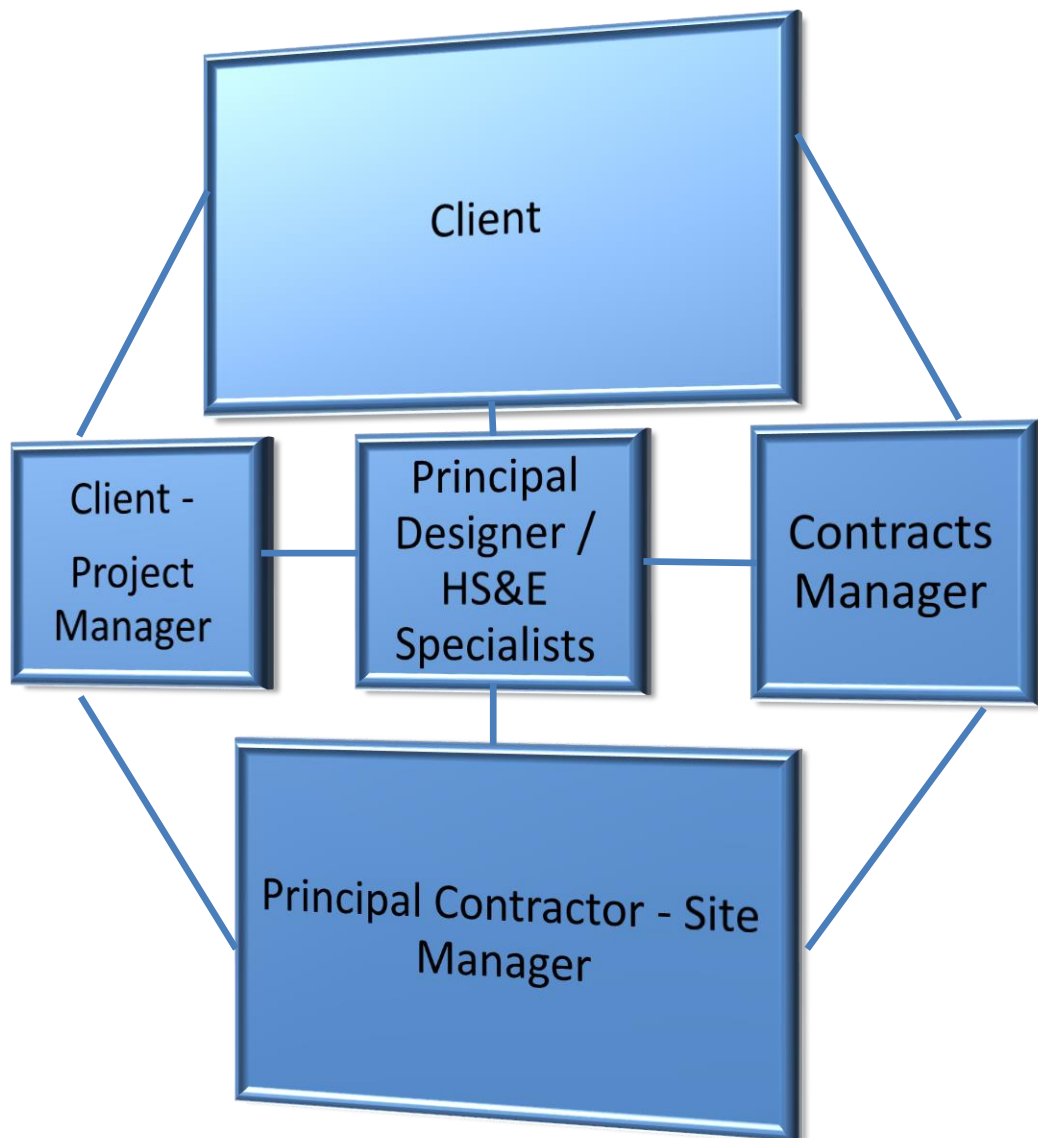


Figure 3.1

3.1 Client Project Manager

The Client Project Manager would have overall responsibility for monitoring the performance of the project against statutory requirements and the agreed objectives and targets. The duties associated with this role include:

- Review and approve the Principal Contractor's Construction Phase Health and Safety Plan (CPP) together with any specialist procedures and identify the need for any improvements.
- Identify the competence of all contractors to be employed for the works.
- Review construction method statements with regard to environmental aspects and advise of suggested improvements prior to works commencing.
- Provide main contact between Principal Contractor, Principal Designer and Client's project team on environmental & construction issues.

3.2 Contracts Manager

The Contracts Manager will have responsibility for co-ordinating and managing all the environmental activities during the construction works. The duties associated with this role include:

- Develop and review the CMP, construction method statements, work instructions and other specialist procedures.
- Identify competence requirements for all staff and ensure delivery of training to the project team.
- Review and improve method statements for environmental aspects prior to works starting.
- Monitor construction activities to ensure that identified and appropriate control measures are effective and ensure compliance with the CMP and Principal Contractors CPP.
- Act as main point of contact between the regulatory authorities and the project on all issues.
- Provision of advice and liaison with subcontractors to ensure that risks are identified, and appropriate controls developed which are identified within method statements.
- Assist with the development and undertaking of training for site staff.
- Liaison with the Client Project Manager.

3.3 Principal Designer & HS&E Specialists

The Principal Designer (PD) will plan, manage, monitor and coordinate health and safety in the pre-construction phase of a project. This includes:

- Identifying, eliminating or controlling foreseeable risks.
- Ensuring designers carry out their duties.

The PD will prepare and provide relevant information to other dutyholders and liaise with the principal contractor to help in the planning, management, monitoring and coordination of the construction phase.

In addition, a team of HS&E experts would be available on an “as and when required” basis to support the project team. Their role would include the undertaking of any necessary watching briefs.

3.4 Site Manager

The Site Manager will be responsible for the following:

- Assist the contract manager in developing and maintaining the CMP together with other documentation.
- Monitor construction works to ensure any necessary control measures are in place and meet the requirements of the CMP.
- Carry out weekly site inspections and complete inspection report identifying any actions required.
- Maintain training register and provide training where necessary.
- Assist in responding to complaints.
- In the event of an environmental incident ensure correct procedures are adhered to.
- Provide information on waste management/reduction procedures to relevant staff.
- Implementation and operation of environmental controls on site.
- Respond to any environmental incidents such as spills.

4.0 PROJECT COMMUNICATION AND CO-ORDINATION

Periodic meetings will be held between the team members to discuss performance to date, the need for improvements (if any), results of inspections and any complaints received. Upcoming work operations will be reviewed to plan any necessary actions to mitigate risks and to disseminate information on best practice. If necessary, representatives of the Statutory Authorities may also be invited to attend such meetings, as and when required.

5.0 TRAINING

A training plan will be developed and included in the CPP, which identifies competency requirements for all staff with responsibilities and details the training needs to ensure that such requirements are met. Records of competence and training will be maintained, and all site staff will be inducted on the environmental issues related to the project and this CMP. Toolbox talks covering specific environmental aspects will also be undertaken as and when necessary.

6.0 OPERATIONAL CONTROL

Site works will be checked against the CMP requirements. Any mitigation measures that have been agreed with the Statutory Authorities, or are part of planning conditions, will be put into place prior to the undertaking of the works for which they are required, and all relevant staff will be briefed accordingly.

Method statements that are prepared for the works will be reviewed / approved by the Client Project Manager and where necessary the relevant HS&E Specialist.

7.0 CHECKING AND CORRECTIVE ACTION

Daily inspections of the site and the works will be undertaken to minimise the risk of environmental damage and to ensure compliance with the CMP & CPP. Any environmental incidents are to be reported immediately to the Site Manager. The Contracts Manager will undertake monthly inspections and complete an assessment of the project's performance with regard to the relevant standards/legislation and the contents of the CMP. Following these inspections, the Manager will produce a report detailing the findings which will be provided to the Client Project Manager and reviewed at the monthly project meeting.

8.0 ENVIRONMENTAL CONTROL MEASURES

Specific procedures to manage the key environment aspects of the project will be developed by the Principal Contractor prior to work commencing which will include the following.

8.1 Enabling Works/Formation of Site Perimeter

At commencement the perimeter of the site will be established and securely protected with good quality plywood hoarding security fencing to HSG151 standard to the whole of the perimeter of the site complete with all necessary signage in accordance with HSE requirements.

Along with reducing the visual impact and providing protection for the construction workers and public, this will also act as a barrier for dust and dirt originating from within the site.

The site area is to be stoned to provide a hardstanding for site vehicles, storage of materials, site cabins etc.

8.2 Excavation and Ground Works

8.2.1 Location of Underground Works

- Prior to commencing excavations, the site area will be checked for overhead and underground services.
- Service plans will be obtained from Utility providers and the site area checked overusing a locating device.
- Once identified service routes will be identified and clearly marked. If markings are lost during the working operation the exercise will be repeated to ensure service routes remain clearly marked as required for the duration of the works.

- Works will be undertaken in accordance with the HSE Guidance Document, Avoiding Danger from Underground Services.

8.2.2 Excavations

- Trenches with a depth exceeding 1m will be either battered back or suitably shored and the shoring maintained.
- Trenches will be inspected regularly, and excess groundwater pumped out regularly during inclement weather.
- Vehicle plant will be kept a safe working distance from the trench to prevent potential collapse.
- No site staff will work below an excavator.

8.3 Highways

8.3.1 Construction Phase Traffic

In order to mitigate the impact of construction traffic during network peak hours, a Traffic Management Plan has been developed and will implemented by the Contracts Manager. This plan will focus on the:

- Co-ordination of car parking for construction personnel.
- Implementation 'just in time' contract plant hire.
- Restriction of unnecessary vehicle movements during the day.
- Co-ordination of deliveries to arrive outside of peak times where appropriate.

All Principal Contractor vehicles will park within the designated parking/vehicle area on hard standing in the loading area. When deliveries are due, the Principal Contractors work vans will be moved out of the loading area and parked in an appropriate location on surrounding roads whilst deliveries are unloaded. At all times trained banksman will be available to assist all reversing vehicles and keep look out for pedestrians.

Appropriate signage will be displayed on the site hoarding informing all contractors on appropriate parking. However, given that there are no parking restrictions further in the surrounding areas, on-street parking will provide additional parking capacity should this be required.

The site management team will continually monitor contractor parking in the vicinity of the site to ensure parked vehicles are parked considerately and not causing an obstruction or nuisance to local residents.

8.3.2 Management of Vehicle Access/Egress, Deliveries, Loading/Unloading of Plant Material

Vehicles will access the site turning from Birch Lane (See Appendix – Site Management Plan). The access route to the site will be dug out and stoned to provide a hard standing for contractors' vehicles. A turning circle is desirable, however due to the limited space constraints, this may not be possible. The Principal Contractor will consider this during the development of their Construction Phase (Health and Safety) Plan (CPP).

Delivery/tipper wagons will be accompanied onto and from the site by trained banksman who will be in advance of the wagons at all times and will be available throughout the day during the project. Generally, deliveries will be by smaller wagons and the Principal Contractor will make merchants aware of the any site restrictions when arranging deliveries.

Construction traffic routes will be kept a safe distance from trench works at all times.

Pedestrian and cyclist safety – the site has good sight lines, and we anticipate moderate pedestrian and vehicular movement. There will be adequate road marshals to supervise entry and exit from the site.

8.4 Air Quality

No specific mitigation, other than adopting best construction practices are proposed regarding air quality. The CPP will ensure that measures are in place to minimise dust during construction activities, during drier periods and earth works operations.

If dust emissions are generated in dry periods, the contractor will use water spray to wet the material and suppress the dust.

The site manager will take account of weather conditions and prevailing wind direction when organising operations to prevent and minimise dust nuisance to neighbouring properties.

All site staff will be trained and be aware of the Dust Management Strategy.

The access road is to be stoned to provide a good, clean working platform and prevent road contamination.

In the event of a complaint from a neighbouring property in respect of dust their concerns will be considered and action taken to prevent future occurrence.

All site staff will have appropriate personal protective equipment (PPE) to protect them from the effects of dust.

8.5 Construction and Vibration

It is not envisaged that issues associated with noise and vibration will be encountered but industry recognised controls will be instigated.

8.5.1 Construction Noise

The assessment of construction noise has shown that the adopted criterion is unlikely to be exceeded at the nearby noise-sensitive receptors. The project is a relatively simple housing scheme with no notable works which would cause significant noise pollution. The proximity of residential housing has been noted and there will be no operation of heavy plant/audible works etc. outside of normal working hours on Monday to Friday 08:00 - 18:00 and Saturday 08:30 – 13:30 and at no time on Sundays or Public/Bank Holidays.

The predicted increase in the ambient noise climate would lead to a minor, barely perceptible, impact at all locations assessed. Several safeguards exist to minimise the effects of construction noise and these will apply during the construction of the proposed development infrastructure. The safeguards include:

- The various EC Directives and UK Statutory Instruments that limit noise emissions of a variety of construction plant.
- Guidance set out in BS5228-1, clause 9.3, that covers noise control on construction sites and minimising noise levels during the execution of the works.
- The powers that exist for local authorities under Sections 60 and 61 of the Control of Pollution Act 1974 to control environmental noise and pollution on construction sites.

In addition, the following measures will be considered, where appropriate:

- Any compressors brought on to site should be silenced or sound reduced models.
- All pneumatic tools should be fitted with silencers or mufflers.
- Deliveries should be programmed to arrive during daytime hours only. Care should be taken when unloading vehicles to minimise disturbance to local residents. Delivery vehicles should be prohibited from waiting within/adjacent to the site with their engines running.

- All plant items should be properly maintained and operated according to the manufactures' recommendations in such a manner as to avoid causing excessive noise. All plant should be sited so that the noise impact at nearby noise-sensitive properties is minimised.
- Problems concerning noise from construction works can sometimes be avoided by taking a considerate and neighbourly approach to relations with local residents. Works should not be undertaken outside the hours agreed with the local authority.

Experience from other sites has shown that by implementing these measures, typical noise levels from construction works can be reduced by 5dB(A) or more. As construction works are temporary and noise levels have been calculated for a worst-case situation no further mitigation measures are considered necessary.

8.5.2 Construction Vibration

Vibration during construction operations is unlikely to be perceptible at any of the nearby vibration-sensitive receptors due to their distance from the site. It is however recommended that construction vibration levels are subject to a watching brief with vibration measurements taken as necessary.

8.5.3 Crane and Heavy Lifting

During heavy lifting by crane or other form of lifting device all persons will be prevented from working (and/or walking) underneath the suspended load(s) by site management and the installation/erection of an appropriate barrier system.

During the construction phase no materials will be unloaded by crane or other lifting device from the highway and under no circumstances will the crane oversail any area of the highway or pedestrian access routes.

8.6 Control of Watercourses, Groundwater

8.6.1 Water Management and Pollution

Precautions will be taken prior to and during construction to ensure the protection of watercourses and groundwater against pollution. The measures would be informed by the site investigation works and by CIRIA Report 532 'Control of Water Pollution from Construction Sites' and Environment Agency Pollution Prevention Guidelines, principally PPG6 – 'Working at Construction and Demolition Sites'.

8.6.2 Wheel Wash

The site is currently surfaced in grass, soil and partial hard standing. It is planned the site will be cleaned and washed daily and trucks washed down if necessary, prior to leaving site. Only initial muck away and concrete trucks are likely to become contaminated with site excavation, special attention will be given to the problem at this stage of construction.

To reduce unwanted debris spreading onto the highway during any major earth works, prior to leaving the site, vehicles will be inspected and the wheels will be washed on the hard standing using a Karcher type jet wash unit. Any debris from wheel washes will remain on site and existing drainage will be utilised for general water runoff.

Where vehicles are set on hard/stoned standing within the site, wheels will be inspected by trained banksman / road marshal and any stone/dry debris within the tyre treads will be removed and disposed of on site. This provision will alleviate any stone / dry debris being transferred to the highway.

The Principal Contractor will manage the risk of any road contamination by regular monitoring. Any debris between the site access and Highways will be cleaned/removed immediately and under no circumstances will debris and/or washings be transferred to the main trunk roads.

8.6.3 Storage of Materials

Construction materials such as cement, oils and fuels for site plant etc. have the potential to cause pollution. Any fuel, oil and chemical storage will be sited on an impervious base within a secured bund of adequate storage capacity. The risk of fuel spillage is greatest during refuelling of plant. Mobile plant would be refuelled either off site or within a designated area on hard standing. All pumps, hoses etc. would be checked regularly.

All materials and plant will be stored within the fenced site area. Materials such as cement and equipment will be stored in a secure site cabin.

9.0 COMPLAINTS PROCEDURE

It is important that member of the public or interested parties are able to make valid complaints about the construction works. Such complaints can provide a valuable feedback mechanism to which helps to reduce potential impacts on sensitive features and will also allow the construction techniques to be refined and improved.

The CPP will contain details of the complaints procedure and a monitoring system will be implemented to ensure that any complaints are addressed, and a satisfactory outcome achieved for all parties.

10.0 SUMMARY

This CMP is indicative only, however, it is expected that the final CPP that will be prepared by the Principal Contractor will incorporate the items outlined above and other requirements that the Local Planning or Statutory Authorities may set during the planning process.

11.0 CLOSURE

This report has been prepared with all reasonable skill, care and diligence, and taking account of the manpower and resources devoted to it by agreement with the client. Information reported herein is based on the interpretation of data collected and have been accepted in good faith as being accurate and valid.

12.0 APPENDIX

12.1 Site Management Plan



Figure 1 – Site Management Plan