

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Revisions

Issue	Description	Approved by	Signed	Date
00	1 st issue	JK	JK	20/03/24

1.0 Project description

Information contained within document has referenced from information Provided and the following documents;

LRI-17-P1

LRI-17-P2

LRI-17-P3

LRI-17-P4



Erection of a 4-storey building attached to No.25 London Road to provide 2no. 2-bedroom and 7no. 1-bedroom flats; and, erection of a 2-storey detached block to provide 2no. 2-bedroom and 2no. 1-bedroom flats with associated parking, amenity space and waste storage at Fox and Hounds, 26-27 London Road, Gravesend DA11 9JH with gated access via Rural Vale.

The setting up of a secure site to include welfare facilities that conform to requirements for the duration of the project

- The Principal Contractor takes possession of the site the first task will be to modify to ensure the site routes to the building are secure.
- All site facilities will be contained within the site area.
- The Security will be maintained during working hours under the responsibility of the site manager.
- Outside of working hours the site will be locked and the main entrance to the building will be locked with CCTV.

2.0 Project Plan Particulars

Commencement date and duration of works Projected

Start Date: TBC

Forecast Duration - TBA months

Working hours - 8am - 5pm (Monday to Friday and 9am to 1pm on Saturdays)

3. Onsite Contractor Contact details

Name	Position	Contact Number	Email
Mr Ranjot Singh Westway Construction Ltd	Project Manager	Tel: 020 3841 7874.	Email: info@westwayconstruction.co.uk

3.0 Site access and egress locations

The main access to the site area is off Rural Vale, off London Road into the carpark belonging to existing site access.

All large construction materials will be mechanically lifted from the delivery area which is the entrance of the car park, there will be a traffic marshal to manage any pedestrians in the vicinity and any cars. **The deliveries will be between 10am to 2pm or on the weekends 10am - 12pm Large.**

Small deliveries will be 1-2 a week and they can park and offload in the car park under the canopy.

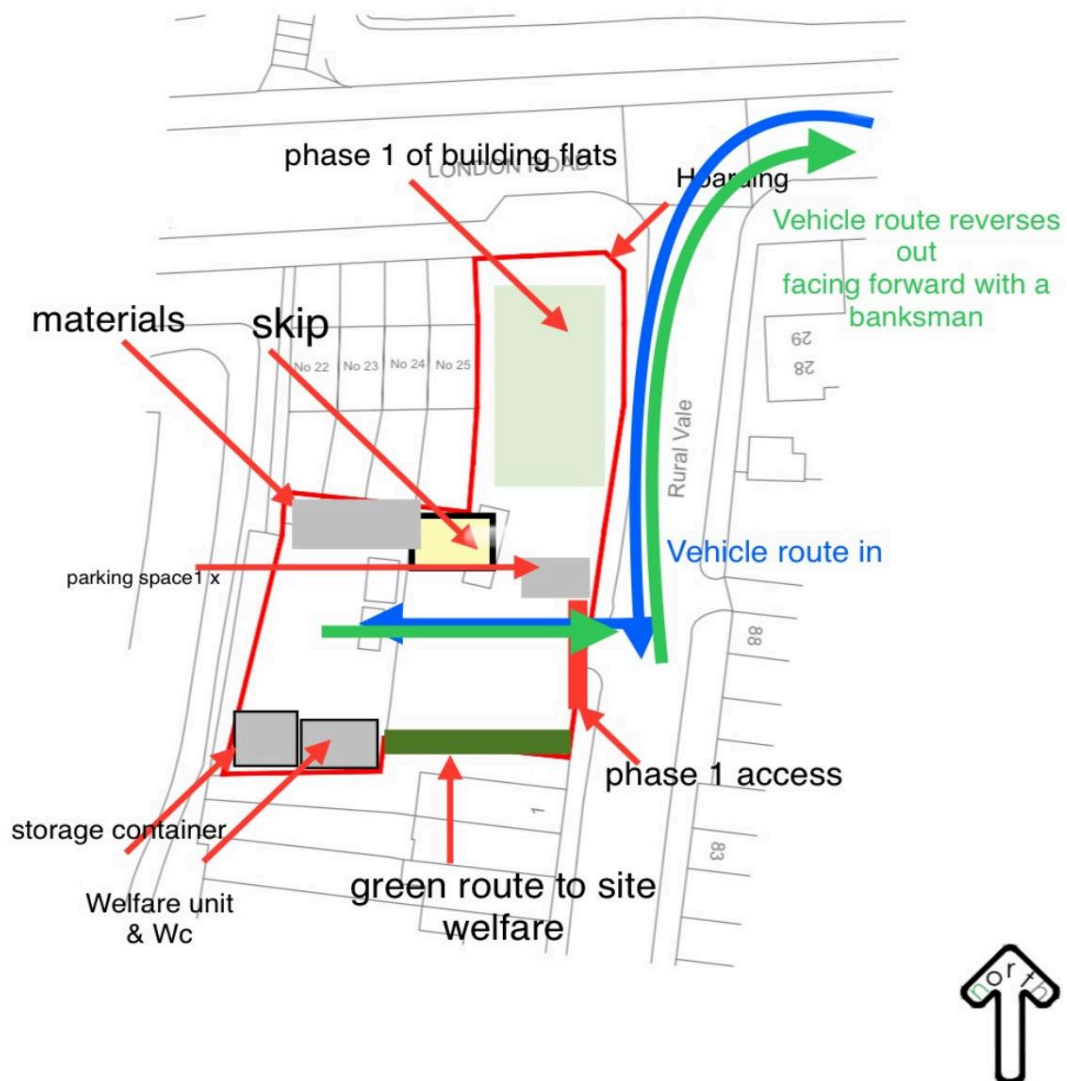
A comprehensive photographic survey of the existing footpath condition will be carried out by the principal contractor and lodged with the client prior to the commencement of any construction activities. They will reinstate any damage to the footpath that may be caused by the works to match the current condition. There will be one on site Construction Staff Parking for short periods. All remaining construction staff are encouraged to travel to site by train and bus as parking will not be provided on site or carparks <https://www.justpark.com/uk/parking/gravesham/northfleet/>.

Material Storage The construction methods utilized on the project will incorporate as much off-site manufacturing as possible.

Also this is continued in section 5.0 See section 5.2 for deliveries table

3.1 Site set up plans

3.1.1 Phase 1





3.1.2 Phase 2 above

4 Site Specific Environmental Issues

4.1 Erosion and Sediment Control Potential sources of sediment/risks

Due to the construction methodology and the designed levels and positions of the foundations and associated works it is not envisaged that there is any risk of contaminating the existing water courses.

Stormwater discharge points

All new drainage will be completed in line with the local authority licenses and acceptance and inspected and passed off by building control, prior to the construction of the new building. This will ensure that as the building reaches the roof level all guttering can be constructed as designed to enter the main drainage. It is not envisaged that any other discharge will be required due to the building make up.

Objective	To manage construction activities with the potential to cause erosion and the release of sediment		
	Requirements	Responsibility	Timing
Actions	Installation of clean hard standing for any vehicle requiring direct access to site i.e. muck away lorries.	Site Manager	Prior to construction commencing
Performance Indicators	No mud/dirt visible on public roads due to construction works Wheel-washing facilities will be provided on-site at the gate access point off Rural vale	Site Manager	Throughout construction works
Monitoring	Daily visual inspections of works site	Site Manager	Throughout construction works

Reporting	reporting to Project manager and the client and the council	Project manager & Site Manager	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.2 Water Quality

It is not thought at this stage that the type and nature of the planned site activities will have or are likely to affect the water quality. If anything changes this will be reviewed and updated.

4.2 Air Quality Dust suppression

Any dust will be controlled in the form of cleaning and the operatives will use water suppression externally with a dust mask and use hoovers inside the building.

Wheel-washing facilities will be provided on-site at the gate access point off Rural vale

Truck loads

During the deliveries of any materials all vehicles will be turned off to reduce the risk of polluting the air with carbon monoxide fumes and surrounding areas, likewise all plants when not involved in a specific site operation will be turned off.

Maintenance and operation of machinery / equipment

Any hired machinery / equipment will be in good working order and will be accompanied with a certificate of conformity. Any machinery that breaks down will be repaired in a controlled manner in an area contained from the rest of the site if unable to be repaired and replaced by a substitute.

Other methods to prevent / minimize dust

If dampening down or specific tools fitted with suppression devices is not sufficient and dust is still being produced all works will be stopped and reviewed to see if an alternative procedure can be adopted.

Objective	To manage construction activities with the potential to impact on air quality		
	Requirements	Responsibility	Timing
Actions	Water will be used for dust	Site Manager	Prior to construction

	suppression		commencing
Performance Indicators	e.g. no complaints regarding dust from workers / neighbours / community members	Site Manager	Throughout construction works
Monitoring	air quality monitoring program or complaint based monitoring	Site Manager	Throughout construction works
Reporting	reporting to site manager	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.4 Noise

There will be no noise generating activities Piling, excavation, concreting, placement of the structural frame. Any noise will be limited to 8am to 5pm only and Saturdays 9am to 1pm.

Maintenance and operation of machinery / equipment / vehicles

All plant and machinery will only work during the designated working hours and will be turned off while not in use

Work hours

All working hours are contained within the agreement with council planning conditions Mon to Fri 8am to 5pm and Saturdays 9am to 1pm.

Specify any activities to be undertaken at night and why (if any)

No works are to be carried out during and or over the night period

Objective	To appropriately manage noise during construction activities to minimize impact to workers, neighbors and community members.		
	Requirements	Responsibility	Timing

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Actions	all significant noise generating activities will be undertaken between Mon-Fri	Site Manager	Prior to construction commencing
Performance Indicators	no complaints regarding noise from workers / neighbors / community members	Site Manager	Throughout construction works
Monitoring	complaint based monitoring	Site Manager	Throughout construction works
Reporting	reporting to site manager.	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.5 Hazardous Substances Include: -

- Storage
- Material Safety Data Sheets (MSDS's)
- Refueling
- Spill kits and emergency spill response
- Spill kit training

Objective	To manage construction activities with the potential to cause contaminated soil.		
	Requirements	Responsibility	Timing
Actions	all chemicals will be stored in bunded, roofed areas with MSDS's kept nearby	Site Manager	Prior to construction commencing

Performance Indicators	no spills	Site Manager	Throughout construction works
Monitoring	chemical storage areas and spill kits will be inspected on a routine basis	Site Manager	Throughout construction works
Reporting	reporting to site manager.	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.6 Contaminated Soil

There is no known existence of any contaminated soils on the site although this is subject to final sign off by the design team.

Importation of fill

Due to the levels and type of arisings importation of fill material is not envisaged at this time if further materials are required then these will be obtained and certified by reputable suppliers

Removal of fill from site

All materials on site will be maintained and used on site within the design.

Wheel-washing facilities will be provided on-site at the gate access point off Rural vale

Objective	To manage construction activities with the potential to cause or disturb contaminated soil.		
	Requirements	Responsibility	Timing
Actions	no fill material will be imported to or removed from site	Site Manager	Prior to construction commencing
Performance Indicators	no evidence of contaminated soil on site	Site Manager	Throughout construction works

Monitoring	any contamination sampling	Site Manager	Throughout construction works
Reporting	reporting to site manager.	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.7 Waste Management

Wheel-washing facilities will be provided on-site at the gate access point off Rural vale

Sensitive receptors

It is not envisaged that the area and works will require sensitive receptors

Waste receptacles and servicing

The majority of waste produced on site will be removed from site contained within skips. All skips will be covered to prevent any waste material becoming airborne due to strong winds or animal scavenging. Local licensed skip companies will be used and all materials will be removed from site under a duty of care notice, all materials will be tracked to either a licensed tip (environmental license to be held) or waste transfer station for separating and recycling. Servicing of the skips will be carried out as required ensuring that over filling and ultimately spillage occurs.

Objective	To appropriately manage waste during construction activities.		
	Requirements	Responsibility	Timing

Actions	Appropriate waste receptacles will be provided on site	Site Manager	Prior to construction commencing
Performance Indicators	No waste deliberately or unintentionally	Site Manager	Throughout construction works

	released		
Monitoring	Waste receptacles will be inspected daily and emptied weekly	Site Manager	Throughout construction works
Reporting	reporting to site manager	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.8 Landscaping works

Wheel-washing facilities will be provided on-site at the gate access point off Rural vale

Objective	To appropriately manage construction activities with the potential to disturb flora and fauna		
	Requirements	Responsibility	Timing
Actions	no fill material will be imported to or removed from site	Site Manager	Prior to construction commencing
Performance Indicators	Installation of clean hard standing for any vehicle requiring direct access to site i.e. muck away lorries.	Site Manager	Throughout construction works
Monitoring	No mud/dirt visible on public roads due to	Site Manager	Throughout construction works

Objective	To appropriately manage construction activities with the potential to disturb flora and fauna		
	construction works		
Reporting	reporting to site manager	All Staff	Throughout construction works
Corrective Actions	corrective actions and implementation time frame	Project manager & Site Manager	Throughout construction works

4.9 NRMM Non-road mobile machinery (NRMM)

this is any mobile machine or vehicle that is not solely intended for carrying passengers or goods on the road. The Emissions requirements are only applicable to NRMM that is powered by diesel, including diesel hybrids.

NRMM included on this site is, but are not limited to: Access platforms Dumpers Piling rigs Excavators, Compressors, Generators, Concrete pumps

Although the requirements do not apply to all sites, and only to NRMM of net power between 37kW and 560kW, it is good practice to apply the same standard to all sites and all categories of NRMM

Site procedure that works in most situations. The procedures should still ensure that the site is compliant, and that centralized records of the relevant emissions information are being kept and can be made available on site. Sites must additionally ensure that the online register is kept up to date.

5.0 Construction traffic and management

The development will be carried out in accordance with the approved code of Construction practice.

There will be a provision of **trained, qualified banksman** for guiding vehicles into the site; there will be Proper routing of construction traffic and delivery vehicles, which will be planned in advance with suppliers Person responsible is Mr Ranjot Singh;

We currently have no plan or a need for any road closures, however we will notify the council accordingly if that may be necessary; we will have details of traffic management required during construction, this will be reviewed throughout each stage of the project ,

the footway management will be managed during construction; 7 day inspections will be carried out for the scaffold , pavement will be managed during erection and maintenance of any required scaffolding; there will be a daily Inspection and maintenance of signage and barriers; we will be committed to avoidance of unnecessary parking of site related vehicles (i.e. construction workers' vehicles), areas in proximity to the site that can be used for these vehicles are identified; the times for construction traffic and delivery vehicles will be monitored so we can manage our deliveries, which must be outside peak network and school hours; and we will ensure there are measures for mitigation of noise, vibration, dust and dirt.

Responsibilities

The general duties of the contractor in respect of traffic management are:

- Ensuring adequate planning of the work including traffic management arrangements on site
- Ensuring subcontractors make adequate provision for the selection and supervision of drivers and for vehicle safety
- Setting standards for driver competence, vehicle safety and maintenance, and ensuring control of authorised drivers
- Ensuring co-ordination and co-operation between different subcontractors
- Co-ordinating the views of workforce representatives
- Ensuring all workers receive information, instruction and training in traffic management arrangements and site rules
- Monitoring the implementation of traffic management arrangements on site
- Reviewing the implementation of traffic management arrangements on site

Banksmen

All on-site construction vehicles will enter and exit the site in forward gear. An appropriately trained, qualified and certified banksmen will be employed by the appointed contractor to assist in the guidance of heavy and large construction vehicles and supervise unloading. Banksmen will not direct general traffic but will indicate to heavy and large construction vehicles when it is appropriate for them to enter and leave the site. Given the small scale of the site, at this stage it is anticipated that banksmen will form members of the contractors' construction staff and will also have other duties. Deliveries by large or heavy vehicles will be advised to ring ahead when entering Tetty Way entrance, at which point the banksmen will await the vehicle at the site access to assist the vehicle into the site. The banksmen will also assist with vehicles exiting the site by indicating to the driver of the large or heavy vehicle when it is appropriate for them to enter and leave the site.

Delivery times 10am - 2pm

Onsite parking is available for only one vehicle at a time for short periods eg visitors

Staff will park in nearby car parks

<https://www.justpark.com/uk/parking/gravesham/northfleet/>

Mitigation Measures for Noise, Vibration, Dust and Dirt

Wheel-washing facilities will be provided on-site at the gate access point off Rural vale, therefore construction vehicles exiting the site will not take mud or debris onto the local highway network, wheel-washing facilities will be provided in the form of a portable automated high-pressure wheel washer with motion sensors to conserve water.

The following mitigation measures will also be adopted to minimise noise, vibration and dust pollution:

- i) Requirement for all engines to be switched off when not in use;
- ii) Spraying of areas with water as and when conditions dictate;
- iii) A road sweeper will be made available whenever operations dictate. The road sweeper will be used
- iv) Vehicles carrying waste material off-site will be sheeted

5.1 Traffic Management Risk Register

Hazard	Risk	Control Measures
Pedestrians and vehicles interface	Pedestrians struck by vehicles during deliveries	A banksman will be present during deliveries to ensure the public is being redirected via a safe route during deliveries. Operatives wear high visibility clothing (jacket or vest minimum) at all times on site. Audible and visual alarms to be in working order on vehicles. Signage to be displayed on site directing vehicles and pedestrians. Speed limit to be established and enforced. Provide anticipated delivery times.
Deliveries	Collision / conflict with other work activities or site operations	Clear instructions to be given for delivery drivers when placing orders / arranging deliveries. Site Manager contact details to be displayed at the main site entrance for contact on arrival. All delivery vehicles to be directed to site manager on arrival and banksman notified where access onto site required.
Access equipment	Struck by vehicles / overturning	Access equipment positioned in areas at risk from being struck by vehicles, including other mobile access equipment, to be segregated from vehicle routes with barriers. Mobile access equipment to be accompanied by a banksman on site roads

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		when moving around site.
Excavations		.
Excavations by walkways	Operatives	Barriers will be placed around the excavations with clear signage to stop operatives from walking towards an excavation .
Vehicles reversing and/or maneuvering	Collision with pedestrians / structures	All reversing and/or turning vehicles (delivery vehicles and construction plant) to be accompanied by banksman.
Poor maintenance of vehicles	Failure of built-in controls	All plants to be maintained and examined in accordance with manufacturer's instructions. Where a plant is obtained on hire, obtain copies of certificates from the hire company. All construction vehicles to be provided with suitable audible and visual indications of movement. Controls, lights and warning systems to be checked before first use each shift.
Lack of competence	Human error due to lack of awareness	Confirm the competence of drivers for the particular vehicles to be used. Instruction given through inductions, on site safety briefings, signage and regular tool box talks. A banksman will be used if the driver's vision is restricted or when operating in a congested area. The carrying of passengers is prohibited.
Congestion	Collision of vehicles / excessive maneuvering	Schedule of planned deliveries to be maintained and deliveries planned in advance to avoid conflict with other site operations or adjacent land uses.
Unauthorized use	Misuse of plant	The ignition key will be removed whenever the machine is left unattended and if left on site overnight all plants will be immobilized.
Noise	Hearing damage	Figures for noise levels will be obtained from the hire company and where these are above 80dB(A) ear protectors will be worn.
Vibration	Whole-body vibration syndrome	Plant should be fitted with 'suspension' seats to reduce effects of whole body vibration. Drivers do not drive plants for prolonged periods to minimise risk of whole body vibration.

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5.2 Schedule of Planned Deliveries

Phase 1

This will be updated as needed

Type	Materials Description	Use	Frequency
Waste removal - Skip	General Waste Removal and groundworks waste if not reused.	Internal strip out and offcuts , packaging , groundworks etc	Once a week
Building Materials - Transit van	General Building Materials, ironmongery , tools , plaster, paint etc	Building works	Once a week , Transit van
Superstructure Flat bed vehicle with a Hiab (crane attachment)	Bricks , Steel frame sections, Timbers , windows and doors.	General construction	Once a week over a period of the first 6-10 weeks of construction.
Internals Flat bed vehicle with a Hiab (crane attachment)	Plasterboard , kitchens , bathrooms	General Construction	Once a week for 2 weeks during the 12-14th week of construction

Phase 2

Type	Materials Description	Use	Frequency
Waste removal - Skip	General Waste Removal and groundworks waste if not reused.	Internal strip out and offcuts , packaging , groundworks etc	Once a week
Building Materials - Transit van	General Building Materials, ironmongery , tools , plaster, paint etc	Building works	Once a week , Transit van
Superstructure	Bricks , Steel frame	General	Once a week over a

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Flat bed vehicle with a Hiab (crane attachment)	sections, Timbers ,windows and doors.	construction	period of the first 16-20 weeks of construction.
Internals Flat bed vehicle with a Hiab (crane attachment)	Plasterboard , kitchens , bathrooms	General Construction	Once a week for 2 weeks during the 22-24th week of construction