

Construction Environmental Management Plan

Barns at Cheneys Farm

Thong Lane, Shorne, Gravesend, DA12 4AD.

Demolition of the existing northern barn and construction of a new barn with mezzanine floor, stripping and re-cladding of the southern barn, site works including laying of roadway and parking areas and landscaping.

1. General Principles

The building contractor will be designate the person(s) who has responsibility for ensuring adherence to good practice measures. A designated person should be on site at all times that operations are taking place and have the necessary authority to initiate changes to work practices and/or mitigation as appropriate.

2. Hours of work

The hours of work will normally be restricted to:-

Monday – Friday: 8.00am – 6.00pm

Saturday: 8am – 1pm

Sunday and Bank Holidays: No work on site.

3. All vehicles and plant arriving at and leaving the site shall comply with the same restrictions on hours. The building contractor should be held responsible for ensuring these instructions are given to all drivers, including those delivering site materials.

4. Community Liaison and Complaint Resolution

The building contractor will be responsible for and will undertake local liaison and notification with local residents who may be affected by the construction work. The local residents shall be informed of the nature of the works, proposed hours of work and their expected duration.

Communications with local residents shall include the name and telephone number of a main contact which will also be displayed on the site hoardings. This contact person shall be able to give further information to the caller and deal with any complaints or emergencies that may arise at any time.

The contractor shall be the point of contact should there be complaints reported to Gravesham Borough Council and in the event that there needs to be a modification or alteration to the practices being undertaken on site as a result of investigation of appropriate complaints, this will be the responsibility of the main contractor.

All site staff to be regularly briefed regarding the complaints procedure.

5. Noise and Vibration

The main contractor will undertake a site study to gain an understanding of where appropriate plant will be based during the build process and the processes which will be likely to create noise, dust and other hazards and shall gain full understanding where the nearest sensitive resource or residential receptor is, the general ambient noise level in the area and shall have an understanding of what the impacts will be, given the duration, scale and type of construction and demolition required.

The contractor shall ensure that materials are delivered in bulk, wherever possible, and are stored on site in fenced and secure compounds in order to reduce the number of material deliveries to the site.

At no time shall Thong Lane be unreasonably blocked and no works or equipment shall be placed such that it prevents the use of the road by neighbouring homeowners and persons rightfully having the right to pass along the road.

To maintain the safety of the public suitable hoardings shall be erected and any scaffold shall be netted with appropriate decking and kick boards to ensure no materials can fall in on to the adjoining track or adjoining gardens.

Delivery routes and vehicle holding areas should be arranged to minimise any disruption to neighbouring property owners. The main contractor is to advise delivery drivers to come to the site via the A226, Gravesend Road and via Thong Lane and not to come to site from the A2.

The contractor is to establish an electrical supply and water supply to the site as soon as work starts on site in order to enable the use of electrical cutting, drilling and chipping tools with dust extraction and water dampening. In the event that there is a need for diesel generators then these must comply with this statement in terms of noise and working times.

The main contractor shall ensure adequate planning within the project to prevent noise generating from double handling of materials and overlapping of high noise activities.

6. Operations

All plant and equipment, including any on hire, shall be checked to ensure it is in good working order and conforms to the manufacturers' standards. Equipment is to be properly silenced and meet statutory emission standards. Defective items are not to be used.

All large concrete pours are started as early as possible, within normal hours, to avoid overruns.

When working within a building, wherever possible ensure all openings (i.e. windows and doors) are to be sealed to prevent dust, debris and noise emanating to the outside of the building.

Before works commence, the site workforce should be fully briefed on the

need to keep all noise generated to a minimum. Shouting and raised voices are not permitted other than in cases where warnings of danger must be given. Radios are not to be played at a volume that is likely to disturb local residents.

7. Monitoring

Noise monitoring should be undertaken at the start of each new activity as identified in the Method Statement/Works Schedule and during out of hours work (if this has been agreed). The Contractor should maintain a record of these noise monitoring results, identify and address issues as they arise. Investigate complaints and check compliance with any noise predicted levels.

8. Plant and Equipment

The use of noisy plant or equipment should be restricted to the necessary works only and all mechanical equipment is to be switched off when not in use.

Noise reduction measures such as mechanical equipment with silencers, noise barriers etc are to be used wherever practicable.

Wherever practicable all plant and equipment should be powered by mains electricity in preference to locally powered sources such as diesel generators. Hand tools should also be electrically powered rather than petrol or diesel driven.

Vehicles and mechanical plant used for the purpose of the works should be fitted with effective exhaust silencers, maintained in good and efficient condition, working order and operated to minimise noise emissions. The contractor should ensure that all plant complies with the relevant statutory and manufacturers' requirements.

Machines in intermittent use should be shut down in the intervening periods between work or throttled down to a minimum. Noise emitting equipment that is required to run continuously may have to be housed in suitable enclosures. Compressors should be "sound reduced" models fitted with properly lined and sealed acoustic covers that should be kept closed whenever the machines are in use.

Equipment which breaks concrete, brickwork or masonry by bending or by bursting should be used in preference to percussive tools as far as practicable.

Pneumatic percussive tools should be fitted with mufflers or silencers of the type recommended by the manufacturers.

During backfilling and ground compaction work, dead rollers should be used in preference to vibrating rollers where practicable.

Where practicable rotary drills and bursters actuated by hydraulic, chemical or electrical power should be used for excavating hard or extrusive material. Plant should be maintained in good workmanlike condition so that extraneous noise from mechanical vibration, creaking and squeaking is kept to a minimum.

Care should be taken when loading or unloading vehicles, dismantling scaffolding or moving materials etc to reduce impact noise.

9. Dust and Air Pollution

The contractor shall assess the risk of dust and air pollution from each operation, manage these risks by and appropriate mitigation measures.

The contractor should comply with all regulations introduced under The Clean Air Act 1993. As is best practice, the burning of any materials on the site will NOT be permitted. Suitable provisions will, therefore, need to be in place for the removal of all waste from site. Waste shall be removed in skips by licenced waste contractors only. The main contractor is responsible for ensuring waste is separated into recyclable waste and general waste and that the appropriate licenced waste contractor is contracted with to dispose of the waste.

The contractor shall ensure that the area around the site, including the public highway are regularly and adequately swept/cleaned using wet sweeping methods only to prevent any accumulation of dust and mud. Wheel cleaning is to be provided on site with waste from the wheel washing directed to a holding tank that is to be pumped out by tanker. The contractor will use dust suppressants to the hard surfaces around the site to help reduce the re-suspension of dust.

Any plant used for the crushing of materials must be authorised by a local authority under the Environmental Protection Act 1990 Part 1 (Prescribed Processes). The requirement to obtain a permit under the Environmental Permitting Regulations 2010 (as amended) is noted. However, the contractor will be instructed not to crush material on site.

The contractor should take all necessary precautions to prevent the occurrence of smoke emissions or fumes from the site plant or stored fuel oils for safety reasons and to prevent such emissions or fumes drifting into residential areas. In particular, plant should be well maintained and measures taken to ensure that it is shut down in the intervening periods between work or throttled down to a minimum.

All non-road mobile machinery should use Ultra Low Sulphur Diesel (ULSD). Effective methods of work are adopted to prevent dust from becoming airborne at source, including enclosure of fixed plant, addition of moisture, or

provision of effective exhaust ventilation and filtering.

10. Asbestos at Work Regulations.

The barns are clad currently in Big 6 asbestos cement sheeting. These sheets typically contain a low level of white asbestos fibres, but can also contain brown and blue asbestos at a low level.

The main contractor will arrange an asbestos survey before any work is undertaken and shall comply with the survey report recommendations on the removal of the asbestos which will cover the requirements for workers to wear protective clothing and masks, the method of removal of the asbestos by cutting through the fixings so the sheets are removed intact, method for ensuring there is no dispersal of fibres and dust by use of H type extraction and fluid suppressants, method of removal from site to a specialist landfill site whether this be by bagging of the waste or by placing in a sealed waste container on site that is removed by lorry once loaded.

11. Contaminated Land

If during site works contamination is encountered on site, which has not been previously identified, works must cease until the safe removal of the contaminants.

12. Wheel washing.

Wheels of vehicles leaving the site are to be washed before the vehicle goes onto Thong Lane. Washing will be by jet wash with the wastewater directed to a holding tank which will be pumped out as necessary and disposed of at a suitable licensed disposal area off site.

13. Measures to protect ecology and biodiversity.

The main contractor will be provided with a copy of the KB Ecology Preliminary Ecological Appraisal with a requirement that the measures contained to protect nesting birds and hedgehogs are put in place before work starts.

Works to clear the site of vegetation in the areas where construction or landscaping are to take place will be completed outside the main nesting period of March to August inclusive.

New nesting boxes and new hedges are to be planted to replace the habitat affected with the planting being undertaken during the autumn/winter planting season directly after the main construction work has been completed.

The ecology report mentions the potential for hedgehogs to be found on the site and recommends that a search by hand is undertaken before the works commence and that trench and excavations are covered, backfilled or, if left open, that ramps are installed to allow hedgehogs or other wildlife to escape the excavations.

Ancillary Site Activities

The contractor will be responsible for all lorries delivering to or exiting from

the site. Lorries are to be prevented from waiting or queuing on the highway at all possible times and are to be brought on to the site to be unloaded etc.

Where lorries cannot immediately leave the site, engines should be switched off while waiting.

Lorries should enter and exit the site in a forward direction.

Wherever practicable all loading and unloading of vehicles will take place away from the neighbouring houses.

Rubbish should be removed at frequent intervals and the site kept clean and tidy. Disposal must be carried out in a safe manner that ensures that only licenced waste contractors are used.

Site hoardings should be frequently inspected, repaired and repainted as necessary.

Unless agreed by the Council, police and third-party land and property owners, lifting equipment arcs should be confined within the site. A licence should be applied for if the jib at any point extends outside the site.

Site lighting should be positioned and directed so as not to intrude unnecessarily on adjacent houses. To prevent disturbance to bats, external site lighting to be used only when needed with minimal light spill. Colour of the light to be warm white 2700k or less with wavelength of 580nm to 620nm. Lights to be directed downwards where possible.

Toilet, washing and welfare facilities for the workers must be provided on site and be kept clean and properly maintained.

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