

## **OPERATION METHOD STATEMENT AND RISK ASSESSMENT**

Prior to the commencement of any contract, a suitable and sufficient Method Statement and Risk Assessment should be completed by the Site Manager, assisted by the Contracts Manager and the Safety Manager. This should be an overall statement covering all aspects of the contract, identifying hazards and risks connected with all activities on site.

1. This form is intended for use on individual operations or for individual Sub Contractors, where a suitable and sufficient Method Statement and Risk Assessment has not been provided.
2. The completed forms are to be kept on site in the Risk Assessment File and all Site Supervisors must be conversant with them.

<b>1. Operating Company</b>	<b>GEOBOND(UK)LTD</b>
<b>2. Site Address</b>	59 Elm Avenue, Ruislip HA4 8PE
<b>3. Subcontractor Tel: No.</b>	01252 531311
<b>4. Nature of Works to be completed.</b>	AUGERED PILES
<b>5. Start Date and Duration of Works.</b>	TBA 2 Weeks
<b>6. Hours of Work - Daily</b>	8.00 a.m - 6.00 p.m. MONDAY – FRIDAY
<b>7. Name of Supervisor</b>	TBA

<b>8. Maximum Number of Operatives.</b>	3
<b>9. Plant/Equipment</b> - Certification - Registers	Piling Rig,
<b>10. Method of Work</b> (attach separate sheet if necessary).	SEE SEPARATE SHEET

## COSHH

<u>PRODUCT</u>	<u>DESCRIPTION</u>	<u>HAZARD</u>	<u>FIRE HAZARD MEDIA</u>
Diesel	Fuel	Harmful if ingested or fumes inhaled.  Irritant to skin.  Prolonged contact can cause Dermatitis.  Flammable.	In case of fire use CO2 Foam.  Dry Chemical.
Steel & Reinforcing Bars		Produces steel shavings.  Sparks when cut, using power tools.  Lacerations on sharp corners & edges.	
Concrete (Ready Mixed)	Readymix containing cement, lime, fine aggregate and water.	Irritant  Can cause cement burn.  Allergic contact can cause Dermatitis.	

<u>SPILLAGE</u>	<u>PRECAUTIONS IN HANDLING AND USE</u>	<u>FIRST AID</u>	<u>STORAGE</u>
Absorb in earth or sand.	Avoid eye/skin contact. Wear gloves.	Wash with plenty of soap & water after skin contact.  Eye contact - irrigate thoroughly. Seek medical attention if irritation persists.	Store in dry, well ventilated area in safe containers.  Keep out of reach of children.
	Wear gloves.  Wear eye protection & long sleeved clothing when cutting.	If eye injury occurs, seek medical attention.  Wash and treat laceration.	Store safely stacked.  Prevent unauthorised access.
Do not allow into drainage system.  Wash away from surfaces.  Hardened material is inert and should be disposed of properly.	Avoid overexposure to skin.  Do not allow to saturate clothing.  Avoid inhalation of dust when mixing.  Always wear gloves.  Mix in well ventilated area.	Skin contact - wash with plenty of water.  Eye contact - irrigate thoroughly.	Not to be stored
Do not allow into drainage system.  Wash away with water.	Avoid direct skin contact.  Do not allow to saturate clothing.  Wear gloves and long sleeved clothing.	Skin contact - wash with plenty of water.  Eye contact - irrigate thoroughly.	Avoid unauthorised access.

## **METHOD STATEMENT** **PILING WORKS**

### **1. SCOPE OF WORKS**

To construct 65no. 350mm diameter piles to a maximum depth of 20.0m for the foundations and 8m for the contiguous piled retaining wall.

### **2. ACCESS AND METHOD**

#### **PHASE ONE (PILING)**

Plant and piling equipment will be delivered on a rigid eight-wheeler wagon with crane off-loading facility. All plant and equipment will be off-loaded and placed in the materials bay set up in the site.

Once all plant has been successfully off-loaded we will then proceed to set up the piling rig on the first pile position. Once the preparation and set up is completed, the piling operation will begin.

Please see attached Method Statement for augered piles.

All spoil will be removed from the piling area by excavator and driver, supplied by MC.

Once the piles have been completed the piling equipment will be removed from site.

### **3. LABOUR**

The following labour will be used to carry out the piling works:

1 x Foreman	TBA
2 x Labourer	TBA

### **4. TRAINING**

All of Geobond operatives have Plant Operator Safety Awareness training and Plantmaster Operators tickets for any relevant plant.

### **5. PLANT**

The following plant will be used in connection with the works:

Hydraulic 40T Tracked Piling Rig  
350mm Diameter Hollow Stem Augers (in 1m lengths)  
Petrol Disc Cutter  
Hand Tools  
Petrol Jet Wash  
1T Swivel Skip Dumper

## **6. MATERIALS**

The following materials will be used in connection with the works:

Ready mix concrete  
Reinforcing Steel in pre-fabricated cages  
Water

## **7. TESTING**

The following testing regime will be used for the works:

100% Integrity.

## **8. PROTECTION**

As well as the controls detailed in the attached risk assessment, the following controls will be applied:

**a) Site Induction:**

All operatives will be inducted by the main contractor/client and advised of any specific risks relating to the area of the proposed works. First Aid will be provided by Main Contractor. All Geobond operatives to be advised of Fire /Emergency/rescue plan during induction by main contractor. Geobond operatives to follow directions as instructed by main contractor.

**b) PPE Requirements:**

The following PPE will be worn as required:

1. Goggles to BS2092
2. Gloves to BS EN 381.7
3. Safety Helmets to BS EN 397
4. Ear Defenders to BS EN 352
5. Safety Footwear to BS EN 345

**c) COSHH**

Assessment sheets for all hazardous substances will be available on site and COSHH briefings have been given to the relevant operatives.

**d) Existing Services & Surfaces**

Location of and protection of all existing surfaces and services is to be carried out by the main contractor (GGM Contractors) prior to commencement of our works. A permit to dig form will be completed prior to us commencing drilling.

e) **Existing Structures**

Main Contractor (GGM Contractors) to ensure all Party Wall requirements/controls are adhered too.

9 **SUPERVISION**

A Geobond Contract Manager will visit site at least 2 times a week during the course of the works. There will also be a Works Manager onsite daily for the full duration of the works.

## **METHOD STATEMENT** **AUGERED PILES**

### **Plant/Equipment**

- Auger Rig
- Segmental Auger Flights
- Reinforcement
- 1T Swivel Skip Dumper
- Petrol Jet Wash

All plant and materials will be delivered to site by wagon and off-loaded and placed in the designated area.

**NOTE : Before any piling can commence, an Underground Services Permit to Dig/ Avoidance of Overhead Services Permit to Work must be completed by Client.**

1. Set up the piling rig over the pile position. Ensure that rig is stable.
2. Ensure that no unauthorised personnel are within the works area and that all authorised personnel are using the required PPE.
3. Lift the lead flight into the guide on the rig and insert the drilling head.
4. Check verticality of auger flight then commence augering.
5. Continue augering until the required depth is reached. Spoil should be removed as a continuous process.
6. To extract the flights : lift the head and auger string out of the bore.
7. Place the reinforcement into the pile using the handling crane on the piling rig/excavator.
8. Deliver concrete to pile by dumper. Discharge concrete into pile via tilt/swivel skip. NO Piles to be left unfilled each day (augered piles must be concreted)
9. Upon completion of works for the day :-

All augers, piling rig to be jet washed clean.

## **Environmental Controls**

**The skips, water bowser and licensed carriers will be provided by the Main Contractor**

10. Operation should only take place within specified working hours.
11. General waste shall be deposited into designated skips.
12. Special waste, such as oil contaminated materials, used oil spill kits etc, shall be disposed of by a licensed carrier.
13. Metal waste generated shall be collected in designated skips.
14. Fuel/oil spills should be prevented. Drip trays and emergency oil spill kits shall be used to catch and clean the spills/leaks. Oil spill kits contain colour coded bags to contain any used spill equipment. These shall be disposed of by a licensed carrier.
15. Arising shall be removed by MC
  
16. The plant shall not be run unnecessarily. Engines shall be extinguished when not in use.

### **Contiguous Pile Wall**

**28no. 350mm diameter piles will be installed at 500mm centers to form a retaining wall 14m in length adjacent to the site boundary with Oak Grove to retain the public footpath and carriageway.**

**PILES TO BE AUGERED/BORED. NO DRIVEN/VIBRATION EQUIPMENT OR METHODS WILL BE USED.**

1. Temporary raised piling mat installed by Main contractor (GGM Contractors). Infill crushed concrete to be used to create a level platform wide enough for safe access of the rig. No Vibration work to be carried out.
2. 350mm diameter auger bored pile installed to a designed depth of 8m
3. Piles installed in accordance with previous method statement.
4. A distance of at least 2no. piles is left before another pile is installed. Two piles will be left between concreted piles for each day of concreting.
5. Spoil removed by attendant excavator.
6. Upon completion the augers and piling rig will be cleaned and removed.