METHOD STATEMENT

Project Number: 6897
Project Address: Hooklands Farm, London Road, Pulborough, RH20 3AT
Client Reference: AUK.171553 - Hextall
Completed By: James Wooley
Position: Contracts Manager
Document Number: MS/6897/001

Overview Description of Works:

Primary works to consist of installing a copper impregnated textile root barrier together with traditional mass concrete underpinning to the barn foundations at the project address of Hooklands Farm, London Road, Pulborough, RH20 3AT.

Prior to works commencing, the lead trade is to walk the site to review all access considerations, working area, current condition of structures etc, to familiarise with the site together with identifying all risks to be considered / present.

Sequence of Works as below:

- Site Compound
- Root Barrier Installation
- Underpinning Works
- Reinstatement

Setting Up Site Compound:

A small compound area, located at an agreed location on the front drive, will be required for excavated spoil to be temporarily stored prior to removal, delivery of materials, and setup of welfare facilities. The Lead Trade is to ensure appropriate fire extinguishers, medical first aid kit and spill kit is available within compound. The agreed area for the compound will be suitably protected with DPM and boards prior to the positioning of any units. Suitable fencing/hoarding panels will be erected around these areas to ensure proper site security is ensured, safety signs will be erected on the site fencing to demonstrate site safety rules and alert no entry for members of public.

All plant equipment and building materials will be transported to site via deliveries and collections, which will be fully supervised by a competent member of the Optera site team. All works should stop when a delivery or collection is being made to make sure sufficient staff are available to support. A trained and competent banksman will be present during any loading/unloading operations, whilst another member of the site team marshals any traffic or pedestrian safely around ongoing works. Where necessary, chapter 8 barriers or road cones will be used to provide temporary protection to any loading/off-loading operations.

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Root Barrier Installation:

Firstly, as per the below drawing reference WHC/9001/DC/004 and WHC/9001/DC/005, the proposed location of the barrier will be marked out on the ground and prior to any excavations, the ground will be CAT scanned to ensure they are clear and free of any obstructions. Any drainage present within the location of the barrier will be hand excavated and exposed prior to machine excavation.

A 450mm wide trench will be formed to a depth of 4.00m below ground level across the left-hand elevation of the barn, as viewed from the front drive and denoted in the below drawings. Once the first 5m of trench has been formed to the required depth, the leading edge of the excavation will be bunded with sheet piles and the copper impregnated bio-barrier will be installed, ensuring it is free from folds on the property side of the trench. The trench will then be backfilled with 20mm single sized stone to within 200mm below ground level. The next section of the trench will be excavated and barrier installed, this process will be repeated until the complete barrier length has been completed. All arisings will be transported to the agreed spoil storage area where they will be periodically collected by grab lorry. Once the barrier has been installed the excavations will be topped up to ground level with MOT type 1 and compacted.

Underpinning Works:

The works area will be CAT scanned to determine the location of any incoming services, any drainage within the locations of the underpinning will be disconnected and re-connected upon completion.

As per the attached drawing reference WHC/9001/DC/001 and WHC/9001/DC/002, the location of the external pins will be marked on the ground. Working on a hit and miss basis, the external pins will be excavated using a combination of an excavator and hand labour to a depth of 2.00m below ground level. As per the attached drawing, the existing foundations were found to be a 400mm thick stone footing founded at a depth of 0.60m BGL, the underpinning extend the footing down a further 1.40m BGL to the required depth.

Once the excavation has been completed, acrow props will be installed to the underside of the existing foundation, together with horizontal reinforcing bars extending into the ground strata, for typing into the next adjacent underpinning bay, alongside anti-heave material to the rear face of the underpinning. Vertical timber shuttering will be positioned / secured into place, prior to the concreting of the underpinning bay by means of volumetric mixer and concrete line pump located within the compound. The pins will be flooded to 100mm above the underside of the footing, and once poured, the concrete will be agitated with a vibrating poker and allow to cure.

Once the first pins have cured, the excavation of the second intermediate pins will commence, this process is to be repeated until all the underpinning bays are constructed. Once the pins have cured the remaining excavations will be backfilled with MOT stone and topsoil.

Lateral Restraint Works:

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Using cordless SDS power tools, drill and plug the walls below each intersecting joint along the flank elevations and secure a restraint strap to each joist and to the wall below. Within the first floor roof space, mobilise equipment and tooling, and erect temporary work lights. Place 2No. 3.6m long 4"x2" C24 timbers to the rafter where it meets the longitudinal ceiling joists and secure in place by drilling and bolting with an M12 Bolt. Where the two joists meet, cut the timbers flush and use the offcut timbers to plate either side of the two butt jointed timbers. Place a dog tooth washer between each timber section and drill 4No. holes at 300mm centres and secure with M12 Bolts, this process is to be repeated for each rafter.

Reinstatement Works:

Upon completion of all of the required works, the site is to be cleaned down and all plant and welfare to be off hired. Once cleared, all protections will be lifted from the compound area and removed, the site will then finally be cleaned down and left tidy.

Project Considerations / Requirements:

Working Hours:	8:00am – 5:00pm, Monday to Thursday & 8:00am – 12:00pm Friday.
Number of Site Personnel:	Maximum of 4 at any one time. Contracts Manager to carry out periodic visits to review progress
Principle Designer:	Spencer Caizley – Optera Structural Solutions

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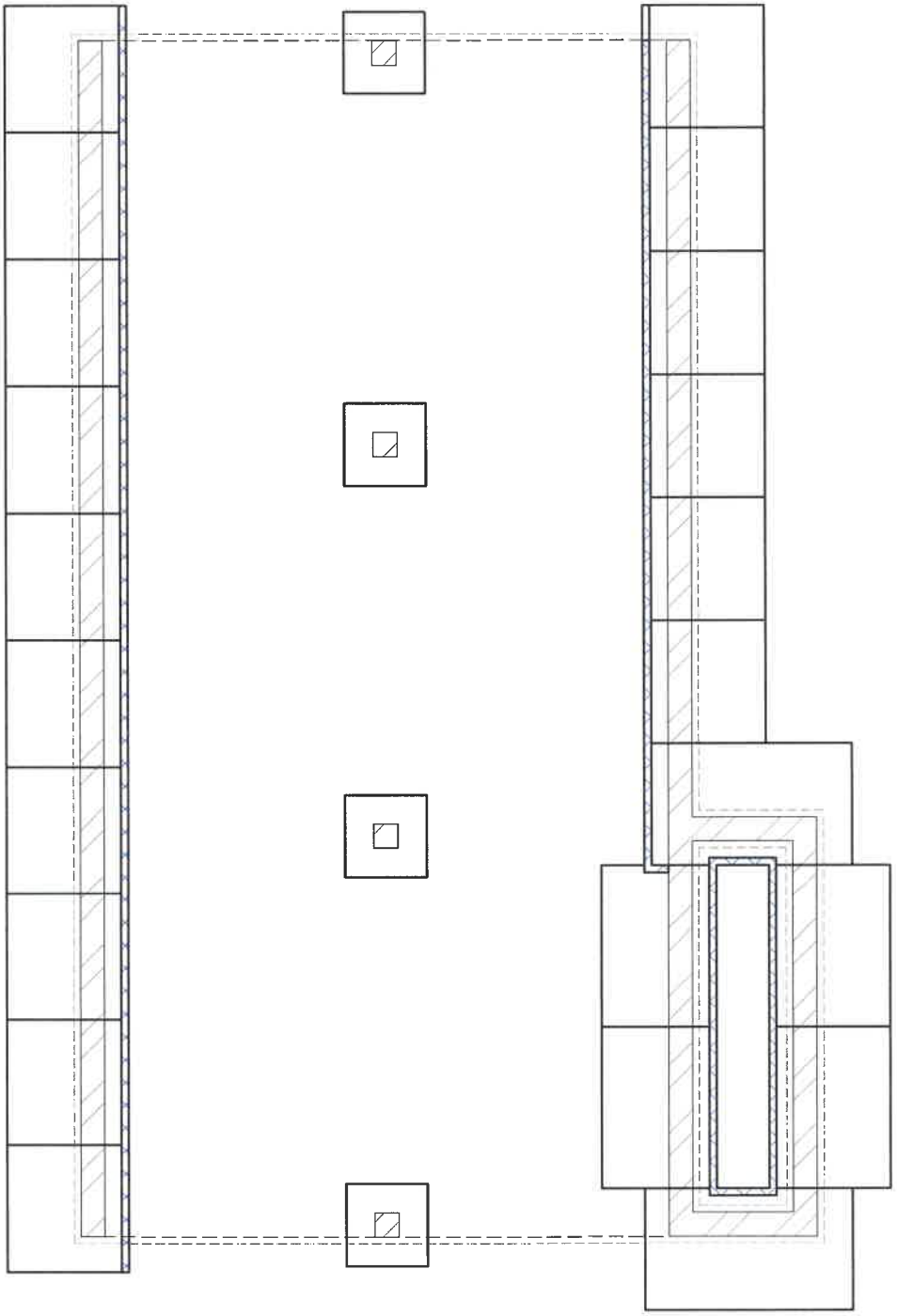
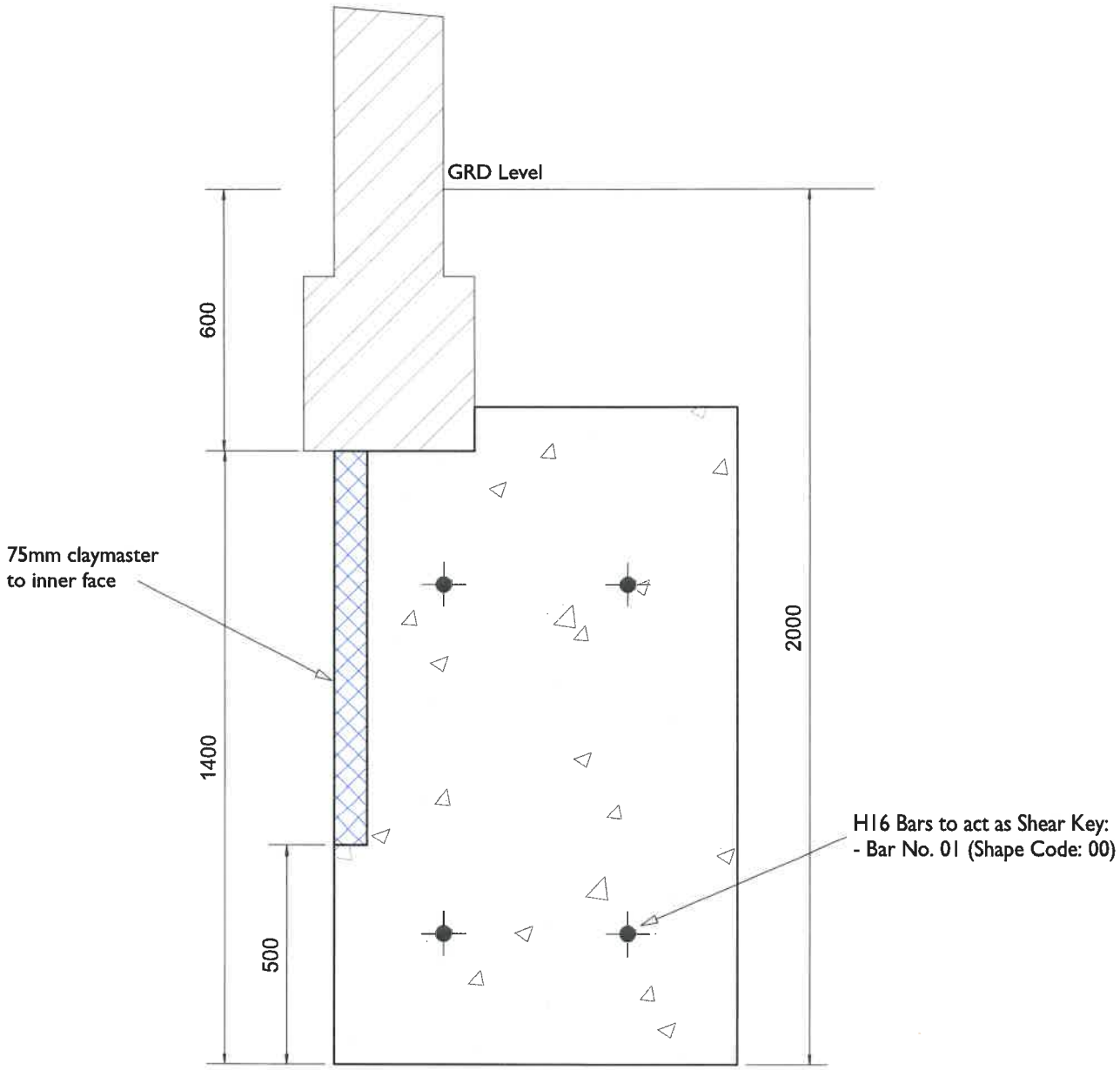


WILLIAM HUNT
CONSULTING

Client Ref:	6897		
WHC Ref:	9001		
Address:	Hooklands Farm, London Road, Pulborough, RH20 3AT		
Drawn By:	MS	Date:	01/10/2024
Dwg No:	WHC/9001/DC/001		



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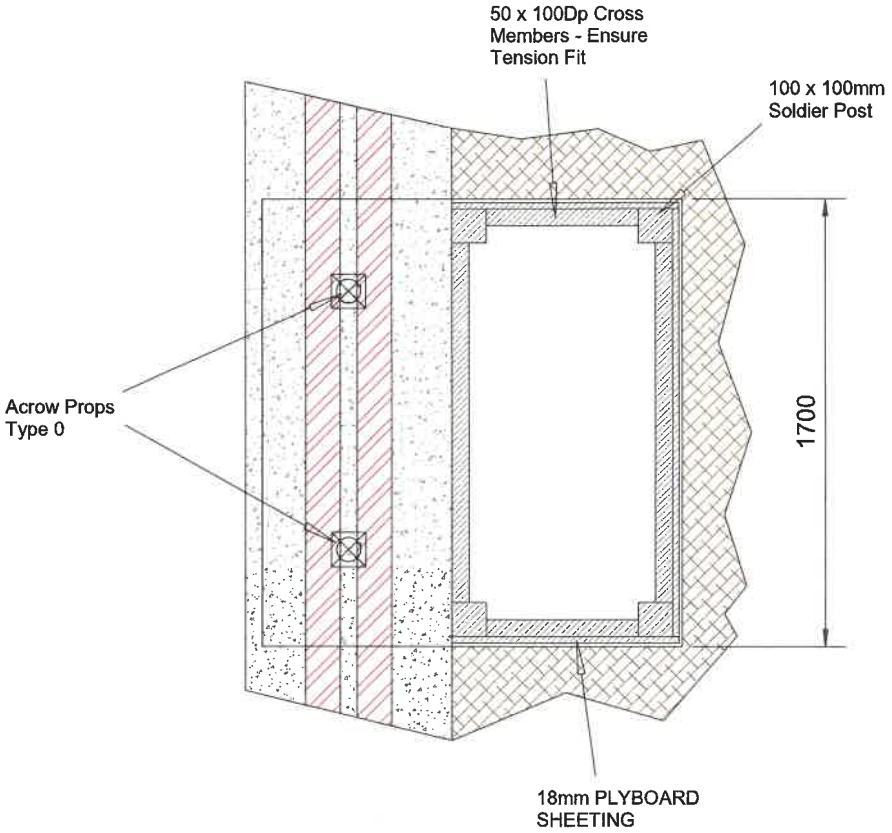
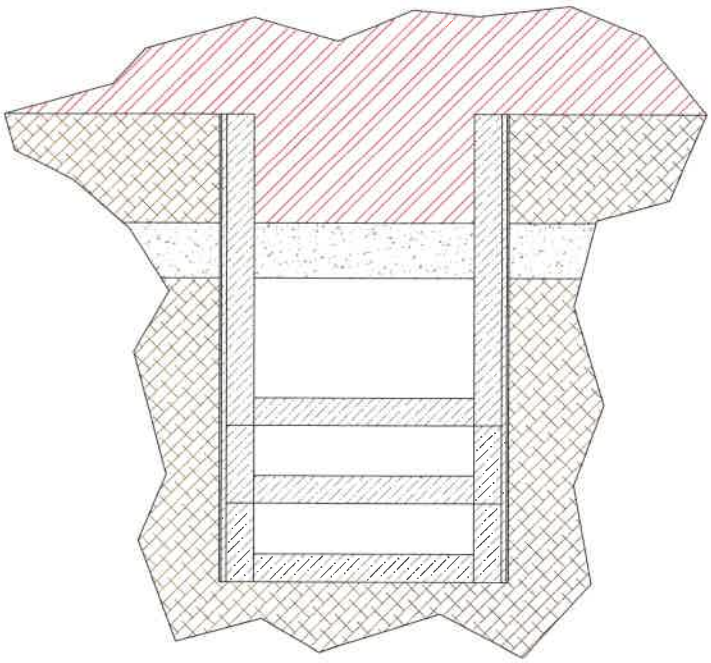
Client Ref:	6897		
WHC Ref:	9001		
Address:	Hooklands Farm, London Road, Pulborough, RH20 3AT		
Drawn By:	MS	Date:	02/10/2024
Dwg No:	WHC/9001/DC/002		





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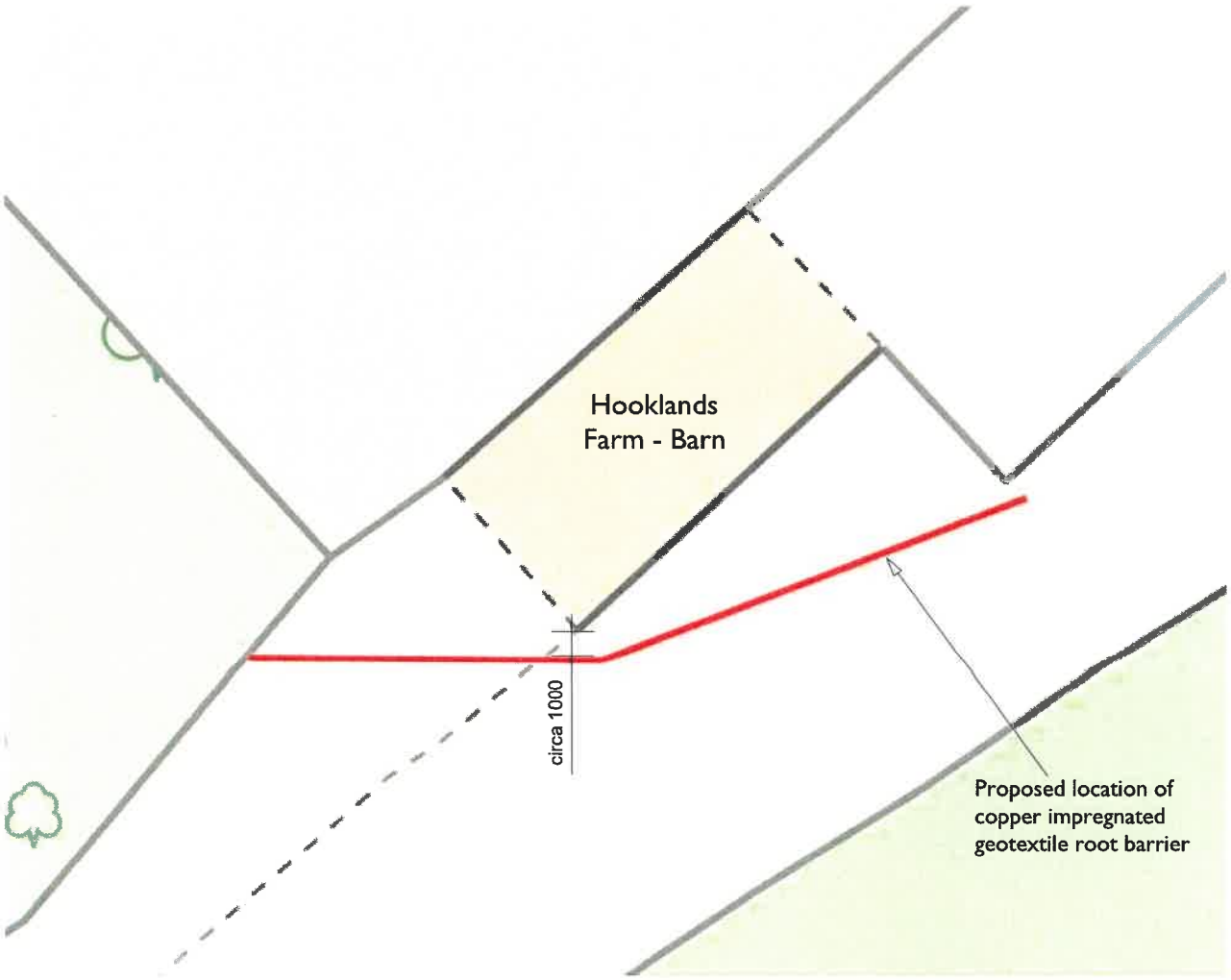
Drawn By:	JJG	Date:	02/10/2024
Dwg No:	WHC/9001/DC/003		



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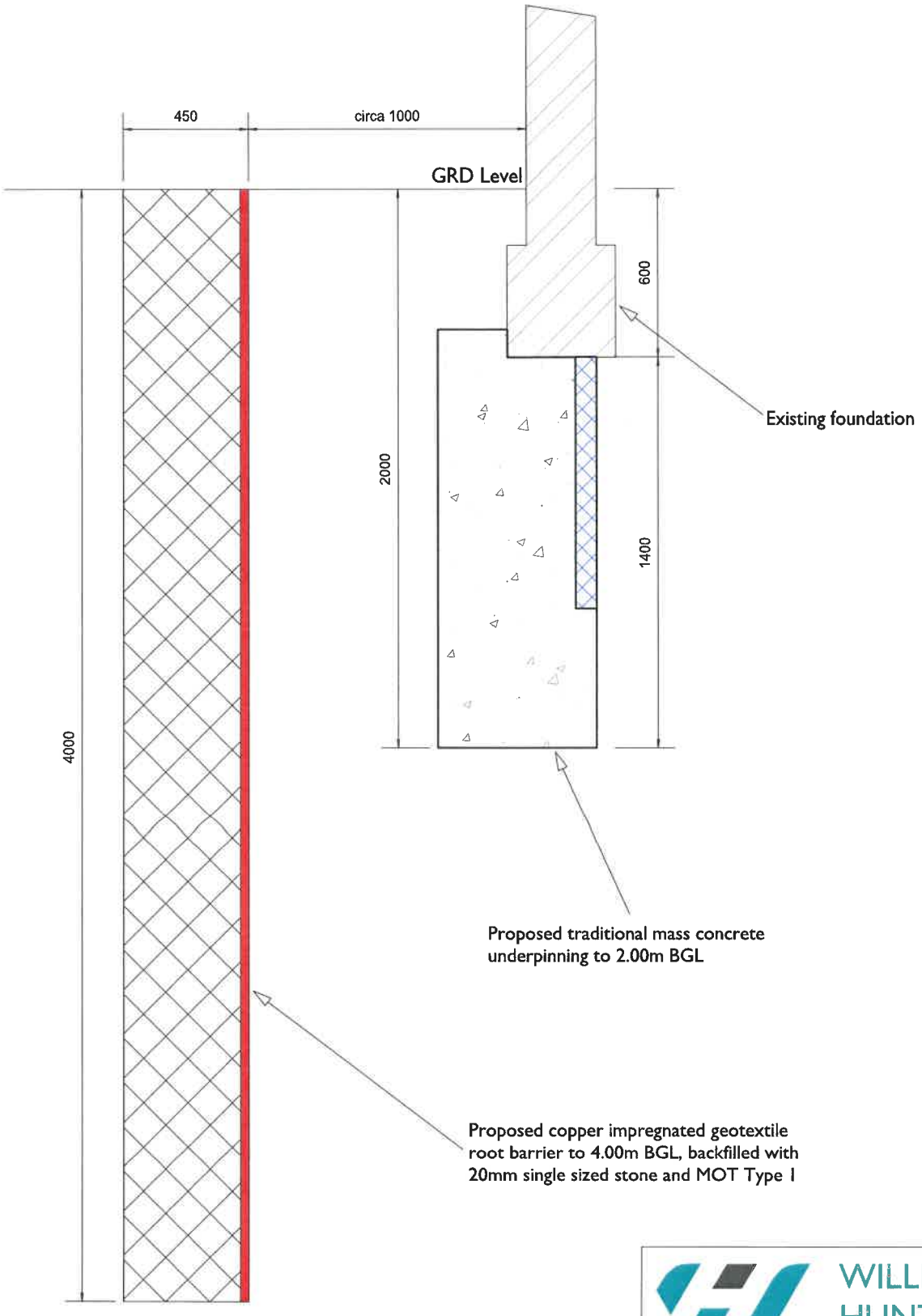

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