



GeoShield Verification Report



PROJECT REFERENCE: GEO103300

PROJECT: Leeds Road, Mirfield

PROJECT ADDRESS: Leeds Road

Mirfield, Wakefield

WF14 0JE

SPECIFICATION: Verified in accordance CIRIA 735.

Design in accordance with BS8485 2015 + 2019 for Methane and Carbon Dioxide.

Substrate prepared in-accordance with manufactures instructions

Rhinoplast Total Gas Barrier

Gas Resistant Detail Strip

Rhinoplast LT Joint Strip (Double Sided Butyl Tape)

Rhinoplast High Tack Girth Tape



GeoShield Verification Report



NAME OF SURVEYOR:

Michael Dodd

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds, LS15 8GB

CONTACT NUMBER:

EMAIL ADDRESS:

ORDER NUMBER:

To be confirmed

PER VISIT:

YES:

NO:

PROJECT:

YES:

NO:



GeoShield Verification Report



CLIENT DETAILS

CLIENT CONTACT: Andy Butterworth

CONTACTS ROLE: Director - ABM Developments (Yorkshire) Limited

MOBILE PHONE: [Redacted]

EMAIL ADDRESS: [Redacted]

CLIENT CONTACT: Aiden McCrystal

CONTACTS ROLE: Director - A M Groundworks

MOBILE PHONE: [Redacted]

EMAIL ADDRESS: [Redacted]

NOTES: [Redacted]

[Redacted]



GeoShield Verification Report



APPLICATOR'S DETAILS

APPLICATOR NAME: Lee Dyson

COMPANY: AM Groundworks

APPLICATOR TEL: Contact Aiden McCrystal

APPLICATOR EMAIL:

APPLICATOR NAME: Frankie McCrystal

COMPANY: AM Groundworks

APPLICATOR TEL: Contact Aiden McCrystal

APPLICATOR EMAIL:

NOTES: The installers have no experience in the installation of Ground Gas

Membrane systems. The installers have had a tool box talk this report

and helped them understand the variety of installation process.



GEOSHIELD Verification Report



AREA SURVEYED: Plots 7 & 8.

SITE CONDITIONS:

WEATHER: Sunny

TEMPERATURE: 7.0c

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: N/A

TIME: 09:00 to 10:30 REPORT NUMBER: 001

DATE: 20/12/2022

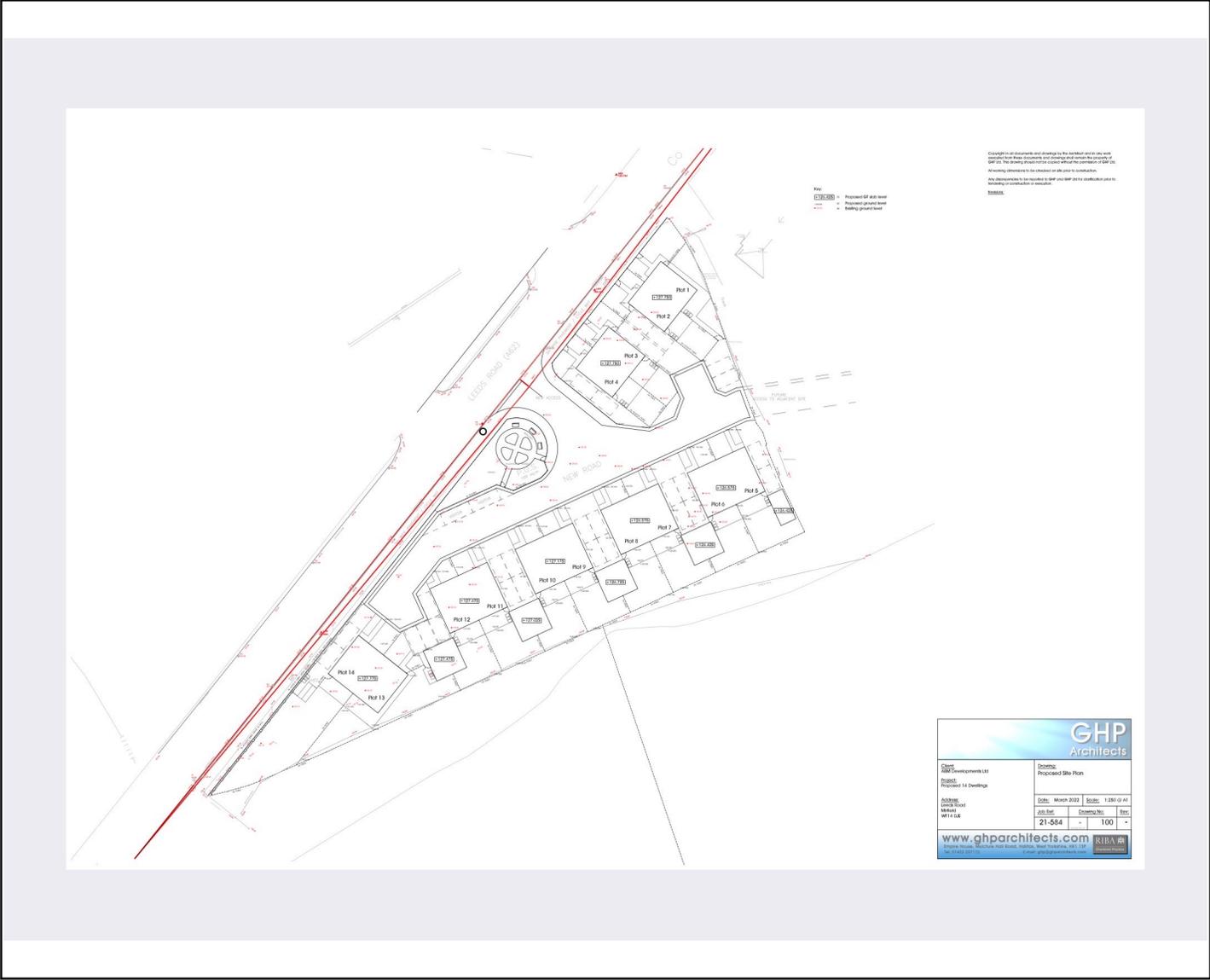
ACCOMPANIED Andy Butterworth and Aiden McCrystal



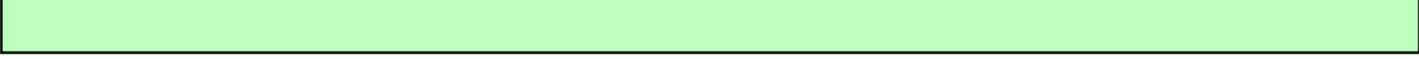
GEOSHIELD Verification Report



VERIFICATION LAYOUT



Overview of the proposed site layout

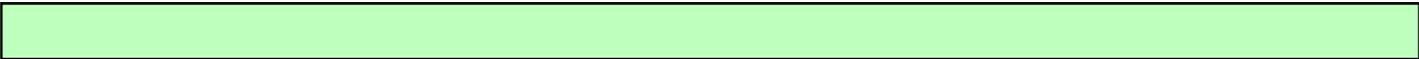




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VERIFICATION LAYOUT



Overview image of proposed site layout

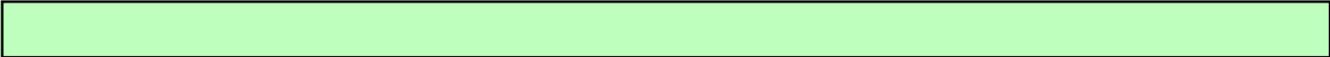
Plots 7 & 8 - proposed tool box talk area.



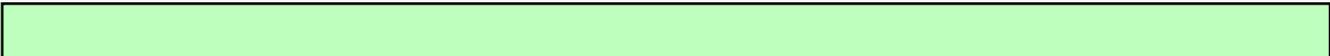
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OVERVIEW PHOTOGRAPHS



Overview showing substrate being prepared to Plots 7 & 8

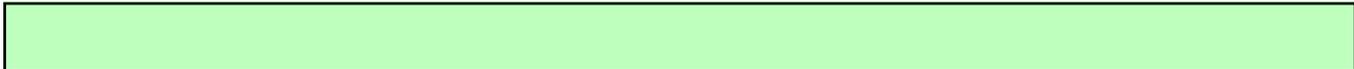




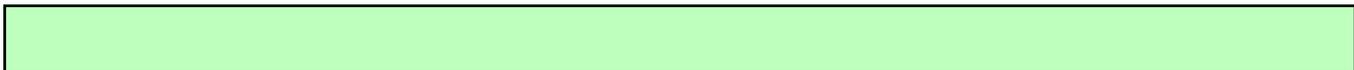
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OVERVIEW PHOTOGRAPHS



Alternative overview showing substrate being prepared to Plots 7 & 8





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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Plots 7 & 8

NOTES: Perimeter Thickening Preparation

The images show the extent of the prepared substrate to the perimeter thickening where the proposed tool box tank was to be undertaken. The area was unfortunately incomplete where there was quite a lot of stone lining the trench thickening which would not be



suitable to install the Rhinoplast TGB upon. In addition, the perimeter formwork was not

complete either especially in the left image where there were large gaps beneath.

GEOSHIELD Verification Report

VERIFICATION ITEM ONE



The overview image shows formwork at the corner of Plot 7 where the substrate within the thickening trench was far from complete and further preparation required. This was explained to both Andy Butterworth and Aiden McCrystal who were concerned that the further preparation works would hinder placing the Rhinoplast by close 21/12/2023



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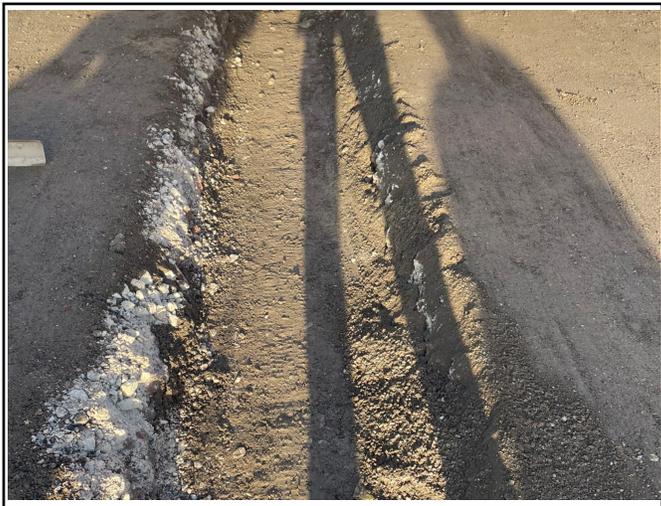


VERIFICATION ITEM TWO

LOCATION/GRID LINE: Plots 7 & 8

NOTES: Internal Thickening Preparation

The two images show the extent of the internal thickenings where like the perimeter thickenings, un-prepared. The main issues was the amount of stone lining the battered sides of the thickening trench and further sand blinding would be required to line these



areas before any of the Rhinoplast TGB could be completed. The issues surrounding the amount of preparation works still required would mean the Rhinoplast TGB could not possibly have been installed by close on 21/12/2022 including verification. This prompted a discussion as to an alternative solution because the concrete pour was planned for 22/12/2022 and time was against the proposed inexperienced installers.

GEOSHIELD Verification Report

VERIFICATION ITEM TWO



The overview image shows the general substrate area which was being prepared

in readiness for the Rhinoplast TGB. The areas above the thickenings were

more or less completed where the sand blinding had been placed and compacted

and would have been suitable to place the Rhinoplast TGB.



GEOSHIELD Verification Report



VERIFICATION SUMMARY

The visit was to initially complete a tool box talk with the appropriate employees of AM Groundworks following a walk around site (Plots 7 & 8). Following the tool box talk, an amount of the Rhinoplast TGB was to be installed with a view to completing a verification. The tool box talk could not proceed and due to the tight deadlines (concrete planned for 22/12/2022), it was asked of Geoshield whether the Rhinoplast TGB could be installed above the Concrete Slab instead. The proposed design change will be shared with Geoshield management with a view to agreeing an updated installation design. In addition, the Pre- Verification Plan did indicate the Evolution Hydrocarbon Barrier but the site had received the Rhinoplast TGB which provides the same protection so no issues using the alternative.

GEOSHIELD SIGNATURE:

DATE: 20/12/2022