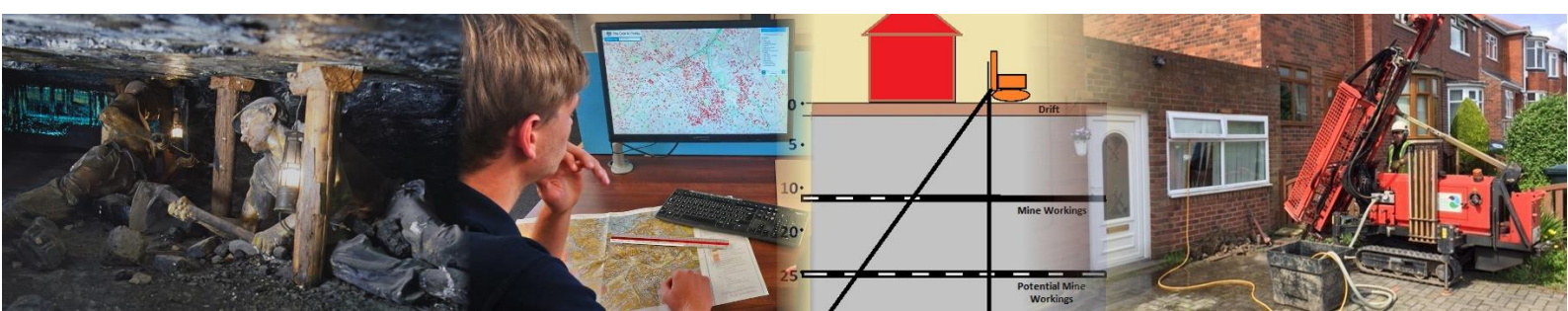




GEOLOGICAL
 GEOTECHNICAL
 GEOENVIRONMENTAL
 CONSULTANCY
 DRILLING & DATA ACQUISITION



GEOINVESTIGATE LIMITED

Coal Mining Risk Assessment (CMRA)

LOCATION	Kirklees College, Close Hill Lane, Newsome, Huddersfield HD4 6LE
ISSUE DATE	22 July 2021
FOR	Alan Hayden
CLIENT REF.	
OUR REF.	G21288

Prepared by

Checked by

Richie Moore
 BSc (Hons), MCSM MSc, FGS
 Geo-environmental Engineer

Ross Nicolson BSc(Hons) MSc(Eng) CEng MIMMM
 Principal Geotechnical Engineer

SUMMARY FINDINGS

OUTCOME MITIGATION REQUIRED (YES/NO?)

YES. On the basis of the CMRA work to date, we are of the opinion that the presence of a mine adit entrance and a section of underground tunnel occurring very close to and perhaps even lying under the nearest classroom building is likely to delay the granting of planning permission for this development.

In our opinion either one of the two new buildings has to be moved further from the adit, or the mine adit has to be found or confirmed to be absent within influencing distance of the currently proposed building position.

In conclusion it is our opinion that Planning Permission will not be granted in this instance until additional intrusive investigation is carried out to further assess the risk posed by this mining adit to the new buildings.

WHAT TO DO NEXT

Obtain quotes for the intrusive site investigation works (if considered appropriate). The cost of the SI works should be a **"lump sum" fixed price**. Geoinvestigate can provide advice and assistance with helping you find suitable site investigation & drilling contractors. Call us on 01642 713779 or email enquiries@geoinvestigate.co.uk.

1. CMRA INTRODUCTION

Site Location and Description:

The approximate centre of this site is at National Grid Reference E 413790, N 414746 with an elevation of about 122m AOD. The proposed building development lies at the foot of a gradual slope rising southeast to Blue Bell Hill and Close Hill Lane at about 130m AOD. The boundary shown in RED on the Coal Authority (CA) report provided in Appendix A corresponds with the planning application area.

Google Satellite and Street View imagery shows the site is located within the Taylor Hill (educational) Centre. The proposed building area comprises lawn and tarmac hardstanding (see images Appendix B).

It is proposed to build two detached single storey modular classroom units within the site. A site location and development plan are provided in Appendix C.

The OS map record from 1854 shows the site is occupied by a 'Coal Pit' perhaps with a short length of tramway leading to a small spoil heap to the north. The proposed building area appears to be unoccupied at this early date. The map of 1893 may show a narrow cutting or embankment leading to an adit entrance, the latter identified in the CA report. The feature swings southeast perhaps joining with a possible mining tramway and a larger spoil heap with perhaps a second mine entry adjacent to Blue Bell Hill road.

By 1906, the site is perhaps garden space to the south of a Bowling Green. By 1959 the site is described as Allotment Gardens.

The Taylor Hill Animal Centre was established in 2008.

The OS map record provides no evidence that the site itself has been subject to sand, clay, or gravel pitting. However historical surface mining activity is recorded within the site, and it is possible that it was a quarry at a much earlier date. The latter is however speculation

A brief, limited desk top inspection of buildings, roads and walls in the site vicinity using Google Street View found no obvious visible surface evidence indicative of mining subsidence.

Description & Layout of Proposed Development: It is proposed to erect two detached single storey modular classroom unit within the site. A site location and development plan are provided in Appendix C.

Risk Methodology Applied: This document and the risk assessment methodology adopted herein is based on CA publication RISK BASED APPROACH TO DEVELOPMENT MANAGEMENT - GUIDANCE FOR DEVELOPERS Version 3, 2014 and Version 4 - 2017. The template contained therein is adopted with minor amendments made by Geoinvestigate Limited.

2. ASSESSMENT OF SITE SPECIFIC COAL MINING ISSUES

The table below summarises the potential risks associated with coal mining legacy for the proposed development site, identified from list sources of information.

Coal Mining Issues	Yes	No	Risk Assessment/Remarks
Past underground coal mining		No	2.1.1 (refer below)
Probable unrecorded shallow workings		No	2.1.2
Spine roadways at shallow depth		No	
Mine entries	Yes		2.1.3
Outcrop		No	2.1.2
Geological faults, fissures and breaklines		No	
Opencast Mines		No	
Coal Mining Subsidence		No	
Mine Gas		No	2.1.4
Site investigations		No	

Note: For those coal mining issues above identified as "Yes" or highlighted "YELLOW" a more detailed discussion and assessment are made of the risks to the application site and the proposed development.

2.1 DETAILED DISCUSSION & ASSESSMENT RESPONSE

2.1.1 Past Underground Mining

According to the Coal Authority report in Appendix A, no recorded/past underground mine workings occur beneath the property.

CA online interactive mapping information identifies underground mine workings are present adjacent to the south of the site dipping 2 degrees in an easterly direction. The entrance to a mine adit within the site (see section 2.1.3) is associated with these workings. Presumably, coal was encountered and extracted from the adit which followed coal seam into hillside rising to the southeast. The adit connects with larger workings under the hillside to the east and southeast of the site.

The absence of recorded shallow working below the site does not mean that shallower unrecorded mine working does not exist beneath the site that the CA have no records of. Mine maps and other documents can get lost or destroyed over the years and if mining was very old there may be no records about it whatsoever and memories fade quickly.

2.1.2 Probable Unrecorded Shallow Workings

According to the CA report the site **does not** fall within an area of probable unrecorded shallow workings. The CA define Probable Unrecorded Shallow Workings as "Areas where the Coal Authority believes there to be unrecorded coal working that exist at or close to the surface" (i.e., less than 30m).

The location of the site is shown on the extract of BGS solid geology map presented in Appendix D. The tentative elevation of the site relative to the vertical geology column is shown below the map. The drift/soil horizon above the solid geology bedrock is not shown on the column.

The BGS geology map indicates the site is underlain by bedrock of Soft Bed Flags comprising mostly sandstone bedrock.

The geology map indicates that drift/soil cover is largely absent, and bedrock lies at or near surface at this locality.

Regrettably, there are no BGS boreholes within or near to the site that might otherwise provide information on drift/bedrock depth and the underlying coal mining geology at this locality.

The CA report does not identify outcrop within or close to the site. However, both the CAs online mapping information and the BGS geology map identify coal outcrop occurring within 15m of the southern site boundary. The BGS geology map and column identifies this seam as the Soft Bed Coal (SB) with a thickness up to 0.8m.

The SB seam outcrops above the site in the slope which rises to Close Hill Lane. Because of this and the easterly dip of the seam the SB coal seam is not expected to underlie the site and therefore in our opinion poses no risk to the development with respect to surface ground stability.

The BGS geology column indicates that no coal seams underlie the development area within shallow depth and that the Soft Bed Flags (sandstone) horizon is up to 25m thick beneath the site.

Perhaps the foregoing outcome explains the conclusion also reached in the CA Consultant's Report that NO probable unrecorded shallow workings exist beneath this site. Therefore, in our opinion the risk of the occurrence of unrecorded shallow coal mine workings at this locality is very low and there is also NO recorded mine working risk.

Consequently, in our opinion the proposed development is not impacted by shallow mine workings recorded or unrecorded, coal seams, or opencast/surface working and the site is safe with respect to ALL these hazards.

However, the mine entry located adjacent to the site potentially poses a significant surface ground stability risk to the new development (see section 2.1.3 below).

2.1.3 Mine Entries

The entrance to mine adit 413414-001 is plotted close to the southwestern boundary of the site. The adit tunnel, runs southeast away from the site into the hillside. The southern boundary of the site (122m AOD) is located at the base of a forested slope, which levels off on Blue Bell Hill road (130 AOD) (see Appendix B for image of the slope).

The adit has a departure/positional uncertainty of 8m either side of its centreline or arrow point. The adit has an assumed diameter of 2m.

The zone of influence (ZOI) of this adit is calculated as 11m either side of the adit centreline including an allowance of 2m assuming drift/bedrock depth is 2m at this locality. The approximate ZOI of this adit is shown in Appendix E. The ZOI encroaches within the building footprint of the nearest proposed modular classroom unit.

Because the Coal Authority do not normally permit development over or close to mine entries or within their ZOI it is our opinion that this development cannot proceed until the new building is proven to lie beyond the ZOI of the shaft. Intrusive investigation will be required to do this.

Whether adit 001 poses a surface ground stability risk to the new buildings depends on its exact position, its direction, depth, size/diameter, and the thickness of rock cover above it.

In our opinion, exploratory drilling is required within at this site to locate the adit or to confirm its absence within influencing distance of the new development.

Because the assumed diameter of the adit is 2m and its ZOI is 11m or so multiple probe holes at 1m spacing may be required to investigate this tunnel mine working.

Drilling will also confirm site specific drift/bedrock depth, this being an important factor in assessing the risk of mining related ground instability. Drilling will also establish whether mine gas is present beneath the proposed development.

It is possible that intrusive investigation may confirm/indicate that the adit entrance is located at the foot of the east slope a little to the east of the building area in which case the new building will not be impacted by it and will be safe. However, a buried approach cutting to the tunnel/adit may exist at this locality creating a local weak spot in the underlying ground conditions perhaps also requiring investigation. This however is speculation.

Because the Coal Authority do not normally permit development over or close to mine entries or within their ZOI it is our opinion that this development cannot proceed until the new building is proven lie beyond the ZOI of the mine adit. Intrusive investigation will be required to do this.

2.1.4 Mine Gas

No mine gas incident or remediation is recorded within 500m of the proposed development and typically, in the UK mine gas is Low risk. Notwithstanding, given the possible presence of shallow mine working beneath the proposed development area together with a gas pathway provided by a very shallow mine adit and the serious nature of mine gas it is recommended that the risk is raised to **MODERATE** to perhaps High until proven otherwise by gas testing during drilling. Because of the presence of a mine adit longer term gas monitoring may be required in this instance.

3. SUMMARY AND OUTCOME

This CMRA has established that recorded and unrecorded coal seam mine working is unlikely to exist beneath the proposed building area within very shallow or shallow depth and therefore there is no surface ground instability risk in this regard.

However, a mine tunnel entrance is present close to the proposed development area and its ZOI may encroach within the nearest of the two classroom buildings. The adit entrance may lie buried within very shallow depth of the surface or perhaps it occurs a little further east entering the hillside at the foot of the slope which occurs at this location.

In our opinion, whether this mine adit entrance poses a significant risk to the development cannot be properly assessed without additional information namely entrance location, tunnel diameter, drift/bedrock depth and rock cover thickness. In our opinion, exploratory drilling is required to obtain this information and enable further assessment of the risks posed by this adit.

Gas monitoring must be carried out during drilling. Because of the presence of a mine adit below the site longer term gas monitoring may perhaps be required in this instance.

It is our opinion that until the adit is found or proven to be absent within influencing distance of the new building this project is unlikely to be granted planning permission.

Alternatively, the nearest of the two proposed buildings may be moved further from the adit.

4. MITIGATION STRATEGY PROPOSED AND CONCLUSION

To properly determine the coal mining risk at this site it is proposed to drill multiple probe holes to locate adit 001 or to confirm it is absent within influencing distance of the new building. If the adit is found quickly less probe holes will be required saving on cost.

Trenching/machine excavation may be required to assist in locating the adit entrance and buried approach cutting assuming the latter feature exists

Gas monitoring **MUST** be carried out during drilling. In this instance because of the presence of a mine adit beneath or adjacent to the property longer term gas monitoring may be required.

Risks for Different Drilling Scenarios					
Air flush	Mist flush	Foam flush	Water flush	Mud flush	Additional controls
HIGH	HIGH / MED'M	HIGH / MED'M	LOW	LOW	- Monitoring at rig and other open holes. - Seal boreholes

A Coal Authority Permit needs to be obtained (ahead of) further intrusive exploratory drilling or trenching investigation. Water Drill Flush to be used when drilling. Permit application must state **WATER ONLY DRILL FLUSH** for the safety of the public and drill crew.

On the basis of the CMRA work to date, we are of the opinion that the presence of a mine adit entrance and a section of underground tunnel very close to and perhaps even lying under the nearest classroom building is likely to delay the granting of planning permission for this development.

In our opinion either the nearest of the two new buildings has to be moved further from the adit, or the mine adit has to be found or confirmed to be absent within influencing distance of the currently proposed building positions.

In conclusion it is our opinion that Planning Permission will not be granted until additional intrusive investigation is carried out to further assess the risk posed by this mining adit to the new buildings.

Appendices:

- A. CA Consultants Coal Mining Report issued 14th July 2021 ref 51002543270001.
- B. Site images.
- C. Site location and Development Plans.
- D. Extracts of BGS Geology Map, Sheet 77 - Huddersfield at 1:50000 scale.
- E. Schematic adit influence diagram.

APPENDIX A
COAL AUTHORITY REPORT



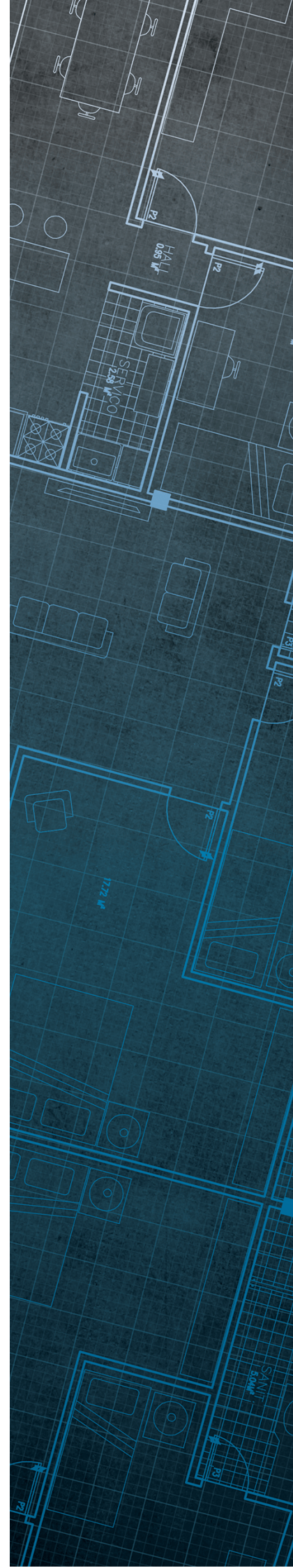
The Coal
Authority

Consultants Coal Mining Report

Kirklees College
Taylor Hill Centre
Close Hill Lane
Newsome
Huddersfield
Kirklees
HD4 6LE

Date of enquiry: 14 July 2021
Date enquiry received: 14 July 2021
Issue date: 14 July 2021

Our reference: 51002543270001
Your reference: G21288



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GEOINVESTIGATE

Enquiry address

Kirklees College
Taylor Hill Centre
Close Hill Lane
Newsome
Huddersfield
Kirklees
HD4 6LE

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

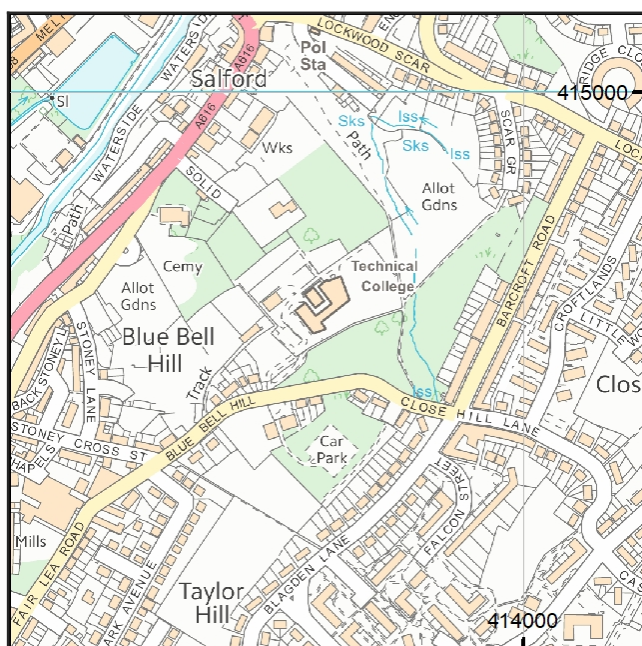
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

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 /thecoalauthority



Approximate position of property



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Ordnance Survey Licence number: 100020315

Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	413414-001	413782 414734		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

5599	PO0	
------	-----	--

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

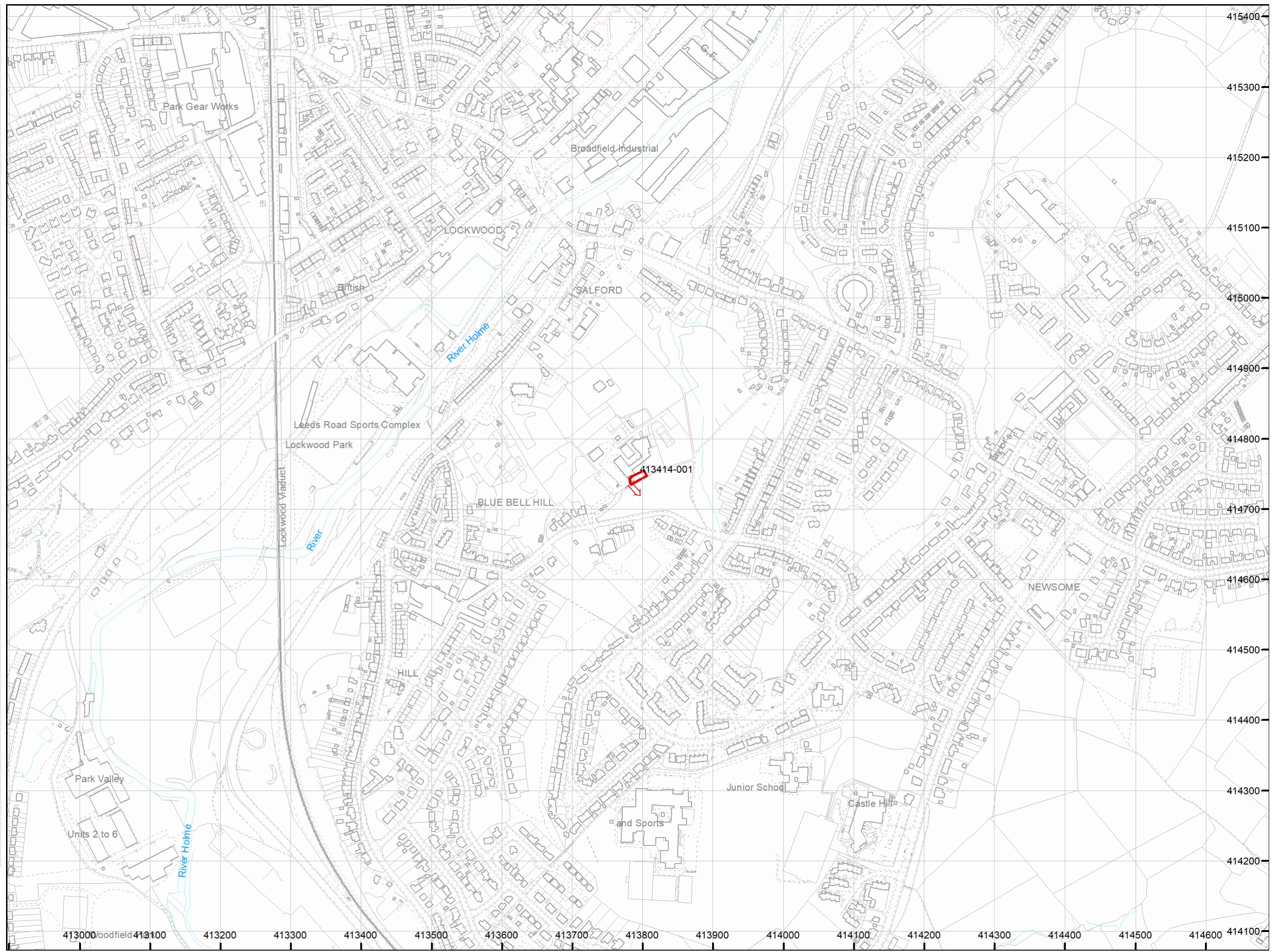
Key

Approximate position of the enquiry boundary shown 

Disused adit 

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



APPENDIX B SITE IMAGES

APPROXIMATE SITE LOCATION



APPENDIX C
SITE LOCATION & DEVELOPMENT PLANS

MapServe



Shaftesbury

PLANNING & PROJECT MANAGEMENT

Milestone
56 Salisbury Street
Shaftesbury
Dorset
SP7 8EJ

Title: LOCATION PLAN

Proposed Modular Classrooms

Client: Kirklees College

Project: Taylor Hill Centre

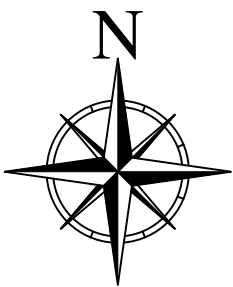
Site Address:

Close Hill Lane
Taylor Hill
Newsome
Huddersfield
HD4 6LE

Date: 15th June 2021

Scale: 1:1250@A4

Dwg No: MACAHKL01



Notes:

Installation of 2nr temporary single-storey modular classrooms at Kirklees College Taylor Hill Centre.

Revision History:

No Revisions

Shaftesbury
PLANNING & PROJECT
MANAGEMENT

Milestone
56 Salisbury Street
Shaftesbury
Dorset
SP7 8EJ

Title: PROPOSED SITE PLAN

Proposed Modular Classrooms

Client: Kirklees College

Project: Taylor Hill Centre

Site Address:

Close Hill Lane
Taylor Hill
Newsome
Huddersfield
HD4 6LE

Date: 15th June 2021

Scale: 1:200@A3

Dwg No: MACAHKL02

Existing
College
Reception
Building

Tarmac

Grass

Grass

Grass

Proposed
Single
Storey
Modular
Classroom

Proposed
Single
Storey
Modular
Classroom

Public Footpath

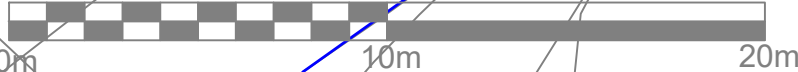
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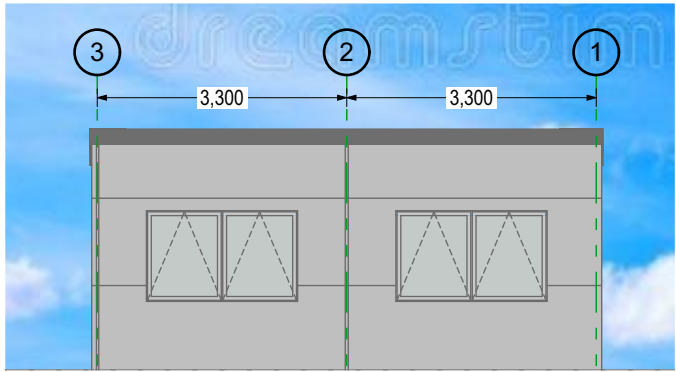
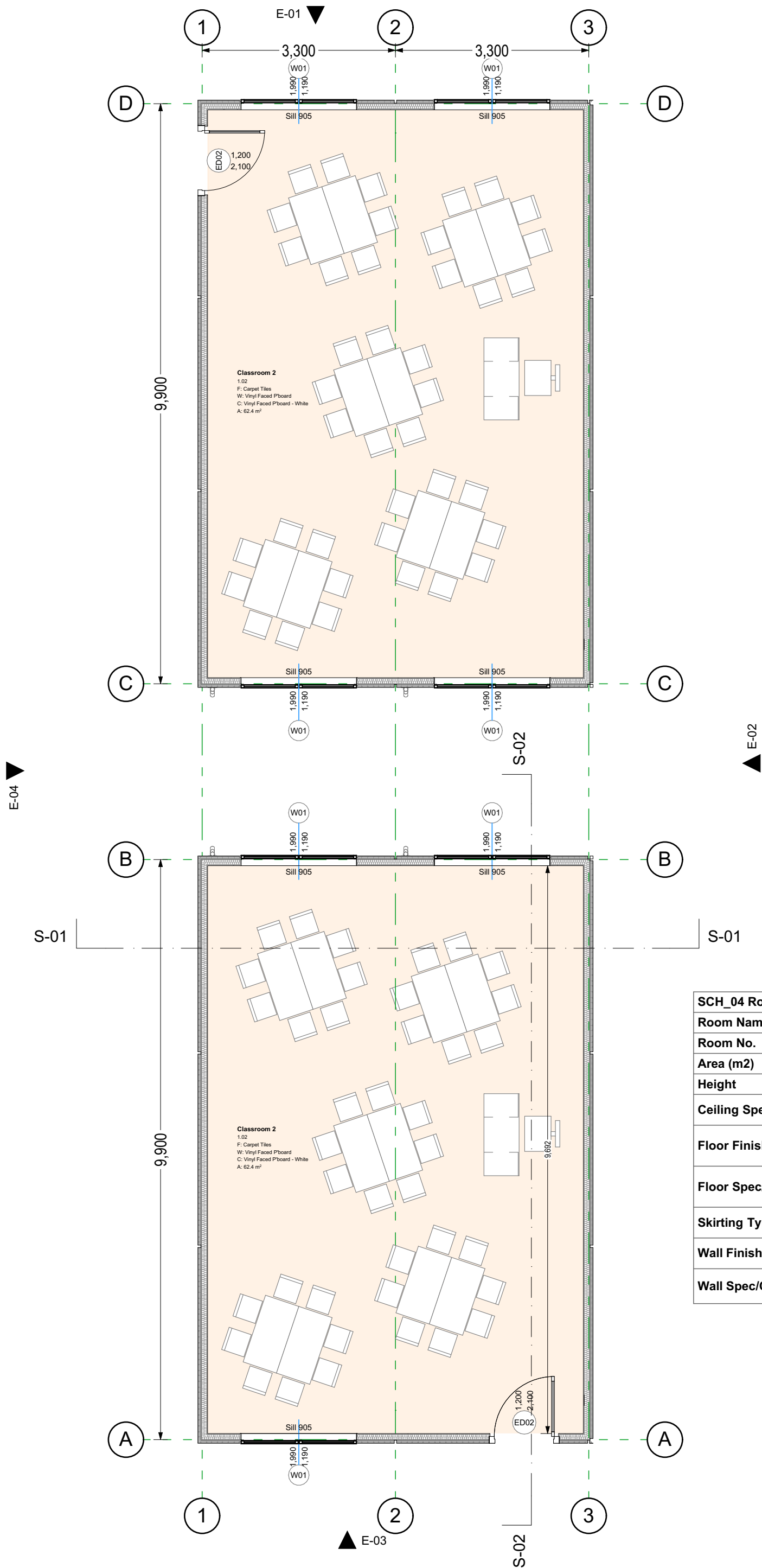
Tree

1.8m Green Palisade Fence

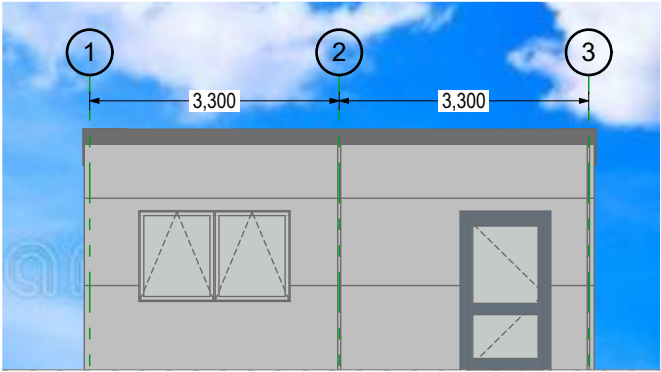
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Scale Bar (1:200)

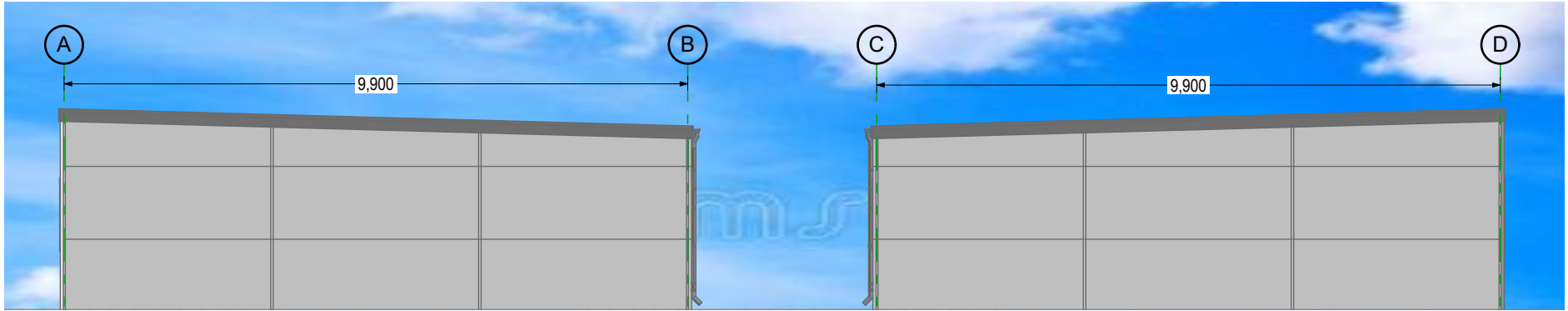




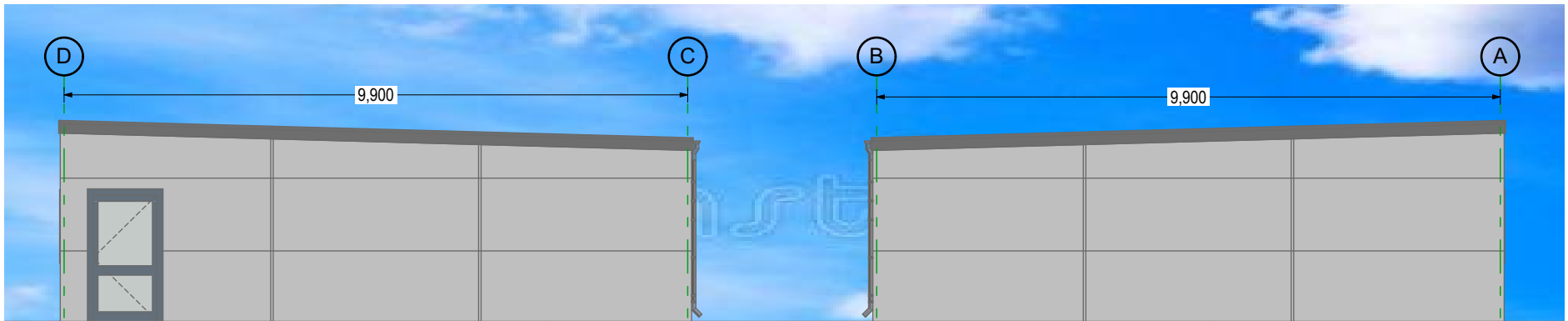
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E-03 1:100



E-02 1:100



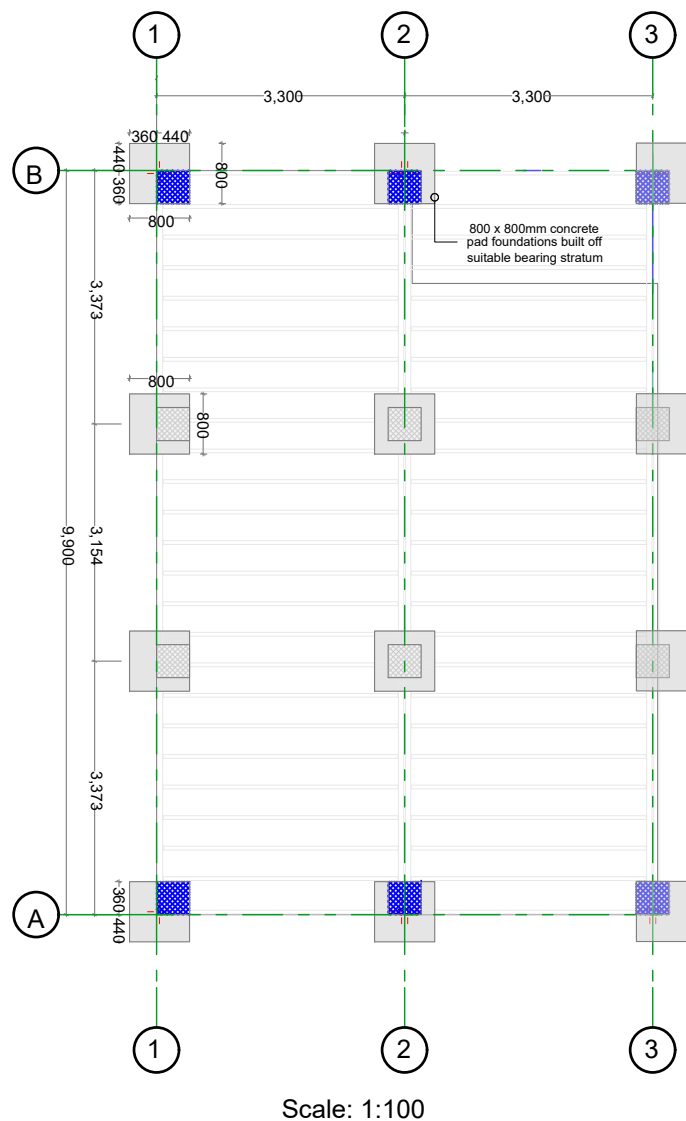
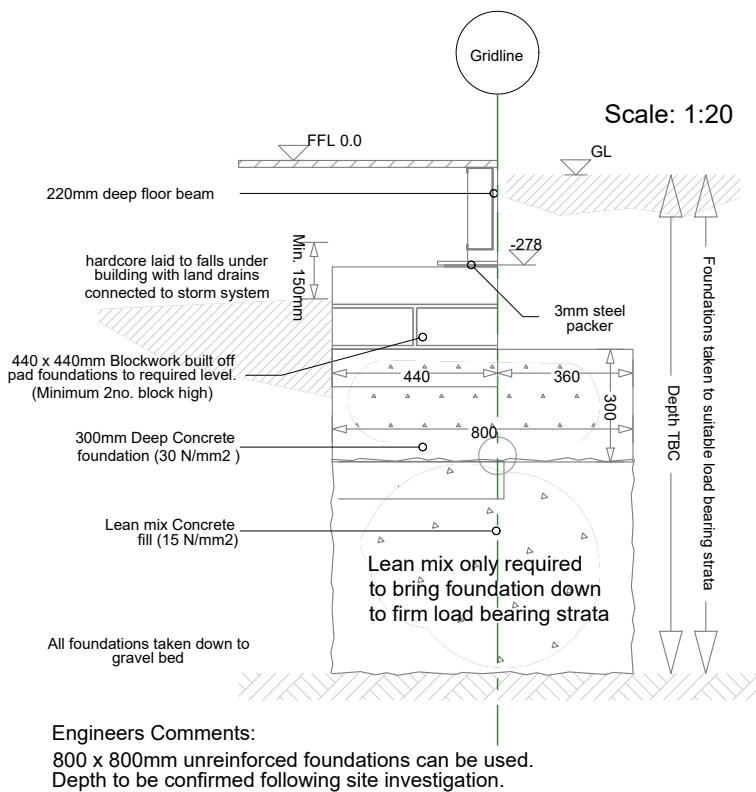
E-04 1:100

SCH_04 Room Finishes Schedule		
Room Name	Classroom 2	Classroom 2
Room No.	1.02	1.02
Area (m2)	62.4	62.4
Height	2,400	2,400
Ceiling Spec/Colour	Vinyl Faced P'board - White	Vinyl Faced P'board - White
Floor Finish	Carpet Tiles	Carpet Tiles
Floor Spec/Colour	Dark Navy TBC	Dark Navy TBC
Skirting Type/Colour	PVC - Grey	PVC - Grey
Wall Finish	Vinyl Faced P'board	Vinyl Faced P'board
Wall Spec/Colour	Vinyl Faced P'board - White	Vinyl Faced P'board - White



Exterior Finishes Schedule		
Item	Specification	Colour
Wall	Horizontally laid composite panel	Goosewing Grey
Building Flashings / module split joint cover	Plastisol coated steel	Goosewing Grey
Plinth (if required)	Plastisol faced plywood	Goosewing Grey
Roof	Kingspan KS1000 RW	Merlin Grey
Roof Flashings	Plastisol coated steel	Merlin Grey
Gutter	115mm half round PVC	Dark Grey
Downpipes	68mm round PVC	Dark Grey
Fascia	Plastisol sheeted plywood	Merlin Grey
External windows	Refer to window schedule	Refer to window schedule
External doors	Refer to window schedule	Refer to door schedule

P02 Windows Removed		amcv mh/07/06/2021
Rev	Comment	Mod Chkd by Date
amv	SC	mh 24/03/21
Project Name : 2 x Single Classrooms		Working with:
Site Name : Taylor Hill Animal Centre		
Building Name : 2 x 2 bay modular		
Client : Kirklees College		
Layout Name : General Arrangement/Elevations/Spec		
Drawn by : amv	Checked by : SC	Approved by : mh Date : 24/03/21
Drawing / Document name:		
Project no.	Originator	Volume Level Type Role Number
PJTXXXXX	MCA	ZZ GF DR A 0001
Suitability:	Suitability description :	
S3	For Comment And Review	
Revision:	Revision description :	
P02	Initial Design	
Scale(s) @ A2		1:50
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Notes:

General Foundation detail proposed to site the two The McAvoy Group modular classrooms at Kirklees College Taylor Hill Centre. The drawing shows 12nr foundation positions needed for each classroom building and an excavated foundation detail.

Shaftesbury PLANNING & PROJECT MANAGEMENT

Milestone
56 Salisbury Street
Shaftesbury
Dorset
SP7 8EJ

Title: Foundation Detail

Proposed Modular Classrooms

Kirklees College

Project: Taylor Hill Centre

Site Address:

Close Hill Lane
Taylor Hill
Newsome
Huddersfield
HD4 6LE

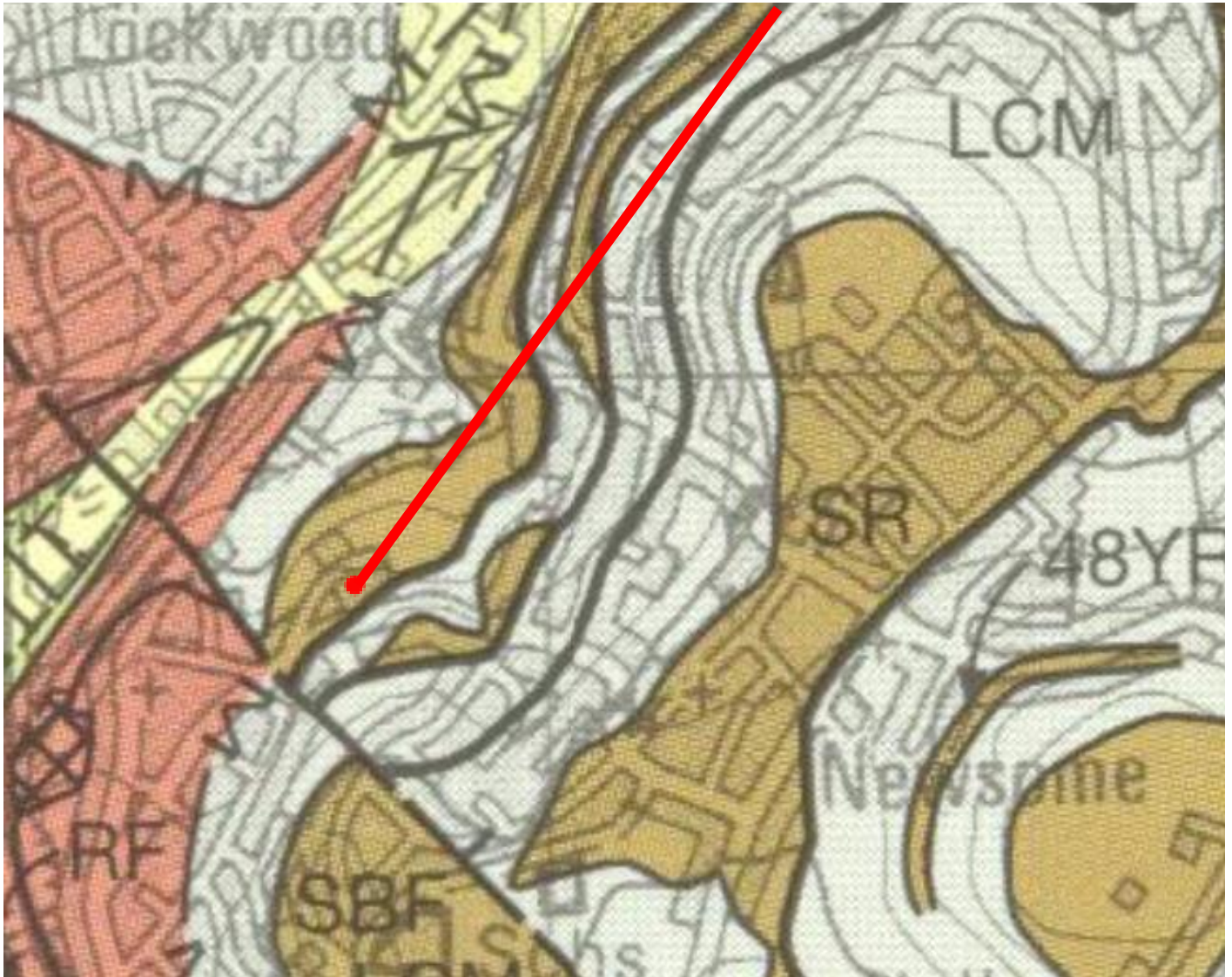
Date: 24th June 2021

Scale: 1:20, 1:100@A4

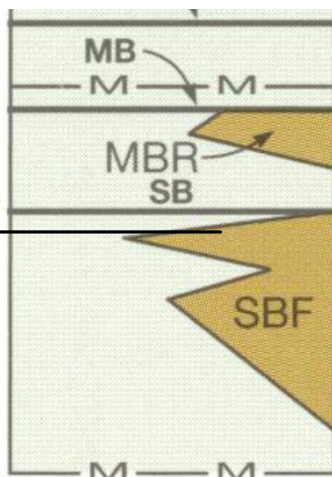
Dwg No: MACAHKL04

APPENDIX D
EXTRACTS OF BGS GEOLOGY MAP

Approximate Site Location



Tentative elevation of site
relative to vertical
geology section



HARD BED COAL (HB) 0.1 to 0.8 m

Honley Marine Band

MIDDLE BAND COAL (MB) 0 to 0.6 m

MIDDLE BAND ROCK (0 to 10 m)

SOFT BED COAL (SB) 0 to 0.8 m

SOFT BED FLAGS (0 to 25 m)

Subcrenatum (Pot Clay) Marine Band

APPENDIX E
SCHEMATIC ADIT INFLUENCE DIAGRAM.

