

Woodsmith Mine Supplementary Environmental Statement

Non-Technical Summary

Sirius Minerals Plc

July 2017

LICHFIELDS

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NYMMPA
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Appendix 2: Site Plan showing the Woodsmith Mine Site

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1.0 Introduction

- 1.1 This document is a summary in non-technical language of a Supplementary Environmental Statement ('SES') prepared on behalf of Sirius Minerals Plc ('Sirius Minerals').
- 1.2 Sirius Minerals, under the subsidiary trading name of York Potash Ltd, is bringing forward the North Yorkshire Polyhalite Project. This involves the construction of a new state of the art mine and associated mineral processing and port infrastructure to produce bulk volumes of POLY4 – the trademark name of the Company's polyhalite¹ product. Planning permission for the development (ref: NYM/2014/0676/MEIA) was issued on 19 October 2015.
- 1.3 Following the grant of planning permission, and the appointment of Contractors, more efficient construction techniques and other improvements have been identified that have resulted in the evolution of the development at the Project's minehead (the 'Woodsmith Mine site'). The nature of the changes are such that it is necessary to seek permission for minor amendments to the approved form of development under s73 of the Town and Country Planning Act 1990 (the 's73 application'²).
- 1.4 The application will be submitted for consideration by the North York Moors National Park Authority ('NYMNP') within which administrative area the Woodsmith Mine site is located. The NYMNP has requested that Sirius Minerals report, as part of the s73 application, on any additional or different environmental impacts that have not been previously identified as part of the original Environmental Impact Assessment ('EIA') process undertaken in respect of the original and approved form of development.
- 1.5 The SES provides further environmental information to that presented in the York Potash Environmental Statement (September 2014), as updated by Supplementary Environmental Information (February 2015) (together 'the original ES'). The original ES was itself accompanied by a summary in non-technical language, the latest version of which was published in February 2015 (the Replacement Non-Technical Summary). A copy of that summary is provided at Appendix 1 to this document for ease of reference.
- 1.6 The document includes the following information: -
- Section 2.0 - the background to the assessment and the s73 application;
 - Section 3.0 - description of the site and the proposed amendments;
 - Sections 4.0 to 8.0- a topic by topic summary of the SES; and
 - Section 9.0 - a review of whether other direct or indirect effects may arise when the scheme is considered with other schemes in the surrounding area
 - Section 10.0 – conclusions and details of how to obtain a full copy of the SES.

¹ Polyhalite is a naturally occurring mineral containing major plant nutrients – potassium, sulphur, magnesium and calcium. It is a valuable multi-nutrient fertiliser and its application by the farming industry, both within the UK and overseas, will assist in maintaining and improving crop yields and harvests.

² Permission for other non material amendments to the form of development (and the agreement of details required to satisfy various planning conditions) in respect of the approved North Yorkshire Polyhalite Project has also been secured or are in the process of being secured. Where relevant to this document these are identified.

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Alternatives

- 2.4 The original ES included a detailed summary of a range of alternative locations and designs considered in respect of the wider Project. The proposed changes considered in the SES have arisen as a direct result of the matters highlighted above. Whilst the detail of their final form and location within the Woodsmith Mine site have been the subject of iterative design and testing by the team, no additional alternatives have been studied by the applicant as part of the process of bringing forward the current minor amendments that require further consideration or identification within the SES.

The EIA process and Scope of the Assessment

- 2.5 The Environmental Impact Assessment ('EIA') process aims to ensure that any significant effects arising from a development are systematically identified, assessed and presented to help a local planning authority, statutory consultees and other key stakeholders in their understanding of the impacts arising from the development. If measures are required to minimise or reduce effects then these are clearly identified.
- 2.6 In respect of the s73 application, the SES has been prepared to set out the conclusions of an additional EIA of the minor material amendments where Sirius Minerals considers that such information is required. The scope of the assessment was agreed with NYMNPA (in its Scoping Opinion dated June 2017) and the environmental areas under consideration comprise:-
- 1 Noise and Vibration
 - 2 Landscape and Visual Impacts
 - 3 Geology and Hydrogeology
 - 4 Hydrology and Flood Risk
 - 5 Ecology
- 2.7 The SES has been completed with regard to best practice and relevant legislation and has addressed the matters identified by NYMNPA as requiring consideration. The assessment has been carried out in accordance with the requirements of the Town and Country Planning (EIA) Regulations 2011 that are relevant in this case.
- 2.8 For ease of interpretation and comparison, the methodology for the supplementary EIA remains unchanged from that undertaken for the original EIA of the wider project. The only exceptions to this occur where new or revised best practice guidance or legislation requires changes to the previous approach adopted or where consultees have requested variations to the previous approach. Where this is relevant, this has been described.

Consultation

- 2.9 The proposed amendments to the development have been the subject of consultation with NYMNPA, the Environment Agency and Natural England. Feedback from consultation has fed into the form of the amendments proposed at the Minehead site and the process of supplementary EIA.
- 2.10 In addition, Sirius Minerals has been liaising with the NYMNPA on a regular monthly basis. This process has enabled the Applicants to ensure the s73 application satisfies the determining authority's information requirements, whilst providing clarity on the amendments and early review of draft design proposals.

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- 1 Minehead Layout - Variations to the layout of buildings at the Minehead to include wider diameters for the Men & Materials and Minerals foreshafts. This variation replaces the need for the previously approved Drift mine access route, its associated on-site structures and the -45m level road network, as well as reducing the size requirement of the Intake Ventilation Equipment building. The changes to the mine are set out in table 3.1 below;
- 2 Construction Methods and Sub-Surface Structures- Amendments to the construction methods associated with the above including the removal of two of the three 45m high temporary winding towers and revised groundwater management, plus diaphragm wall construction for the foreshafts and the three shafts is to be adopted, with the latter extending to approximately -120 metres below ground (80m AOD);
- 3 Shaft Diameters and Bunding – Adjustments to the shaft diameters and amendments to the non-screening bunding to the south of the main platform to accommodate the revised road layout and adjusted spoil quantities;
- 4 Water Attenuation – the relocation of the water attenuation ponds into the northern field, along with the addition of a Silt trap within the southern field;
- 5 Construction and Operational Platform Extension - an extension to the southern extent of the platform with a reduction in its width and the creation of access ramps; and
- 6 Internal Access Road – amendments to the route of the access road linking the approved Welfare Building to the Construction/Operational Platform location, and the associated relocation of the gatehouse

3.8 As a result of these changes to the scheme it is necessary to vary and amend plans that were previously approved under the original planning permission NYM/2014/0676/MEIA (condition 5). It may also be necessary to vary the wording of other conditions to 'tidy up' the permission as follows:-

- Conditions 61 and 73 - Amendment to drawing numbers to reflect the revised drawing schedule as well as the Glossary of Terms definition of permanent above ground structures
- Condition 62 - Amendment to drawing reference numbers to reflect the latest Basis of Design Report
- Conditions 6, 44, 47, 51, 57 and 79 - Reference to be made to the SES and any additional mitigation which it identifies (as relevant)
- Conditions 39 and 41 - Reference to the 'ghost island' at the Ugglebarnby Moor and shaft entrance to be removed to reflect the outcome of a s96a non-material planning application approved in May 2017
- Condition 45 - Removal of references to the grout wall and replacement with reference to the revised groundwater management plan
- Condition 4 and 94 - Removal of the reference to an approved phasing plan and replacement with annual progress plans

3.9 A schedule of the revised plans is provided in Appendix 3. A selection of the amended plans sufficient to define the amendments to the development is provided at Appendix 4.

4.0 Noise & Vibration

4.1 An assessment of noise and vibration was undertaken as part of the original ES and consideration has been given as part of the supplementary EIA as to whether there is the potential for impacts associated with the s73 application.

NYM/14/0676/MEIA
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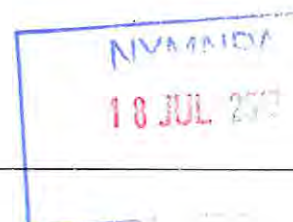
- 5.2 Updated ZTV mapping and photomontages have been used to assess whether the S73 scheme will result in changes to the landscape and visual impacts.
- 5.3 Significant work has been undertaken to ensure that the effect of the proposed scheme will result in minimal impacts to the surrounding area. Mitigation measures have been incorporated into the design of the scheme to reduce landscape and visual impact both during construction and during the operation of the development. This includes ensuring that there will be adequate visual screening of the construction activities through planting and the formation of bunds.
- 5.4 The assessment has found that the proposed scheme both during construction and operation results in similar impacts to the approved scheme and does not exceed those impacts. Table 6.2 below which sets out a comparison of the effects from the proposed scheme and those of the approved scheme.

Table 5.1 Summary comparison of the landscape and visual impacts of the approved and S73 schemes

| | Approved scheme | S73 scheme |
|------------------------------|---|---|
| Construction Phase | | |
| Physical impacts | minor adverse | minor adverse |
| Landscape character impacts | moderate adverse, moderate major adverse and major adverse | moderate adverse, moderate major adverse and major adverse |
| Visual impacts | moderate adverse, moderate major adverse and major adverse | moderate adverse, moderate major adverse and major adverse |
| Night time impacts | moderate adverse | moderate adverse |
| Impacts on special qualities | moderate adverse, moderate major adverse and major adverse | moderate adverse, moderate major adverse and major adverse |
| Cumulative impacts | major adverse (locally), minor adverse (more distant areas) | major adverse (locally), minor adverse (more distant areas) |
| Operational Phase | | |
| Physical impacts | minor adverse at Year 1 changing to minor beneficial by Year 15 | minor adverse at Year 1 changing to minor beneficial by Year 15 |
| Landscape character impacts | minor moderate adverse at Year 1 changing to minor moderate beneficial by Year 15 | minor moderate adverse at Year 1 changing to minor moderate beneficial by Year 15 |
| Visual impacts | minor moderate adverse at Year 1 changing to minor moderate beneficial by Year 15 | minor moderate adverse at Year 1 changing to minor moderate beneficial by Year 15 |
| Night time impacts | minor adverse (sky glow) | minor adverse (sky glow) |
| Impacts on special qualities | minor adverse (sky glow impact on Tranquillity; dark skies SQ) | minor adverse (sky glow impact on Tranquillity; dark skies SQ) |
| Cumulative impacts | neutral at Year 1, minor beneficial by Year 15 | neutral at Year 1, minor beneficial by Year 15 |

6.0 Geology and Hydrogeology

- 6.1 An assessment has been carried out to consider whether the amendments to the development will result in different impacts to the geology and hydrogeology of the site and surrounding area in comparison to those identified in the original ES.



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| | Approved scheme | S73 scheme |
|--|-----------------|------------|
| Direct disturbance of surface water courses | Negligible | Negligible |
| Accidental release of fuels, oils, lubricants and construction materials | Negligible | Negligible |
| Operational Phase | | |
| Increased surface water flows from site drainage and treated sewage | Minor adverse | No Impact |
| Discharge of treated sewage effluent | Minor adverse | No Impact |
| Decreased spring flows | Negligible | Negligible |
| Increased sediment supply | Negligible | Negligible |
| Direct disturbance of surface water courses | Negligible | Negligible |
| Accidental release of fuels, oils, lubricants and construction materials | Negligible | Negligible |

8.0 Ecology

- 8.1 As part of the original ES, an Ecological Impact Assessment was undertaken; the SES includes an updated assessment of the possible impacts on ecology.
- 8.2 The proposed changes to the development will not result in any new ecological impacts; the impacts on ecology on the site and the wider area remain consistent with the original ES. Since there are no changes to the site boundary at Woodsmith Mine, there will be no additional ecological receptors affected beyond those considered in the original ES.
- 8.3 The assessment has been carried out in consultation with Natural England, the Environment Agency and the NYMNP and is in accordance with national and local legislation. The scope and methodology of the additional protected species surveys was agreed with Natural England.
- 8.4 The proposed scheme still includes implementing restoration proposals which would result in the creation of a range of habitats appropriate to the area and the immediate surrounding area.
- 8.5 As highlighted in table 8.1 below, the changes to the development identified within the s73 application July 2017 will not change the conclusions reached in the original ES and SEI and additional mitigation measures are not required.

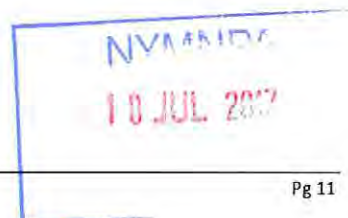
Table 8.1 Summary comparison of the ecological impacts of the approved and S73 schemes

| | Approved scheme | S73 scheme |
|--|---------------------|---------------------|
| Construction Phase | | |
| Impact on non-statutory sites | No impact | No impact |
| Impact on habitats | Moderate adverse | Moderate adverse |
| Impact on birds | Moderate adverse | Moderate adverse |
| Impact on bats | Moderate adverse | Moderate adverse |
| Impact on reptiles | Negligible | Negligible |
| Impacts on otter, water vole, dormice, aquatic and terrestrial invertebrates | No impact | No impact |
| Operational Phase | | |
| Impact on non-statutory sites | No impact | No impact |
| Impact on habitats | Moderate beneficial | Moderate beneficial |
| Impact on birds | Moderate beneficial | Moderate beneficial |
| Impact on bats | Moderate beneficial | Moderate beneficial |

- 10.2 Due to the iterative nature of the process of developing the plans that form the basis of the s73 application, any mitigation identified through the supplementary EIA process has been 'built in' to the amended form of development or are capable of being carried forward by the retention of various planning conditions attached to the original planning permission for the development.
- 10.3 As a result of this, that there are largely no anticipated changes to the overall impacts identified in the original ES as a result of the amended scheme. The only exception is the reduction in anticipated impact arising during the operation of the mine in respect of surface water flows from site drainage and treated sewage and the discharge of treated sewage effluent. Changes to the development include the relocation of previously approved surface water attenuation ponds and a wetland area. The resultant impact reduces from minor adverse (as reported in the original ES) to no impact when the amended scheme is considered.
- 10.4 No additional mitigation measures are specifically identified as a result of the EIA reported in the SES.

Availability of the Environmental Statement

- 10.5 A paper or electronic copy of the full SES and this Non-Technical Summary can be obtained from:-
- Lichfields, 3rd Floor, 15 St Paul's Street, Leeds LS1 2JG
- 10.6 Reasonable copying and printing charges will be applied to the paper copy and a CD can be provided on request at a charge of £5.
- 10.7 Information on the s73 application and the SES can also be viewed at:
<http://www.northyorkmoors.org.uk/> or during the opening hours of the NYMNPA at the following address:-
- The Old Vicarage, Bondgate, Helmsley, North Yorkshire YO62 5BP
 - Tel: +44(0)1439 772700
- 10.8 All comments on the s73 application and the SES should be issued to the NYMNPA.



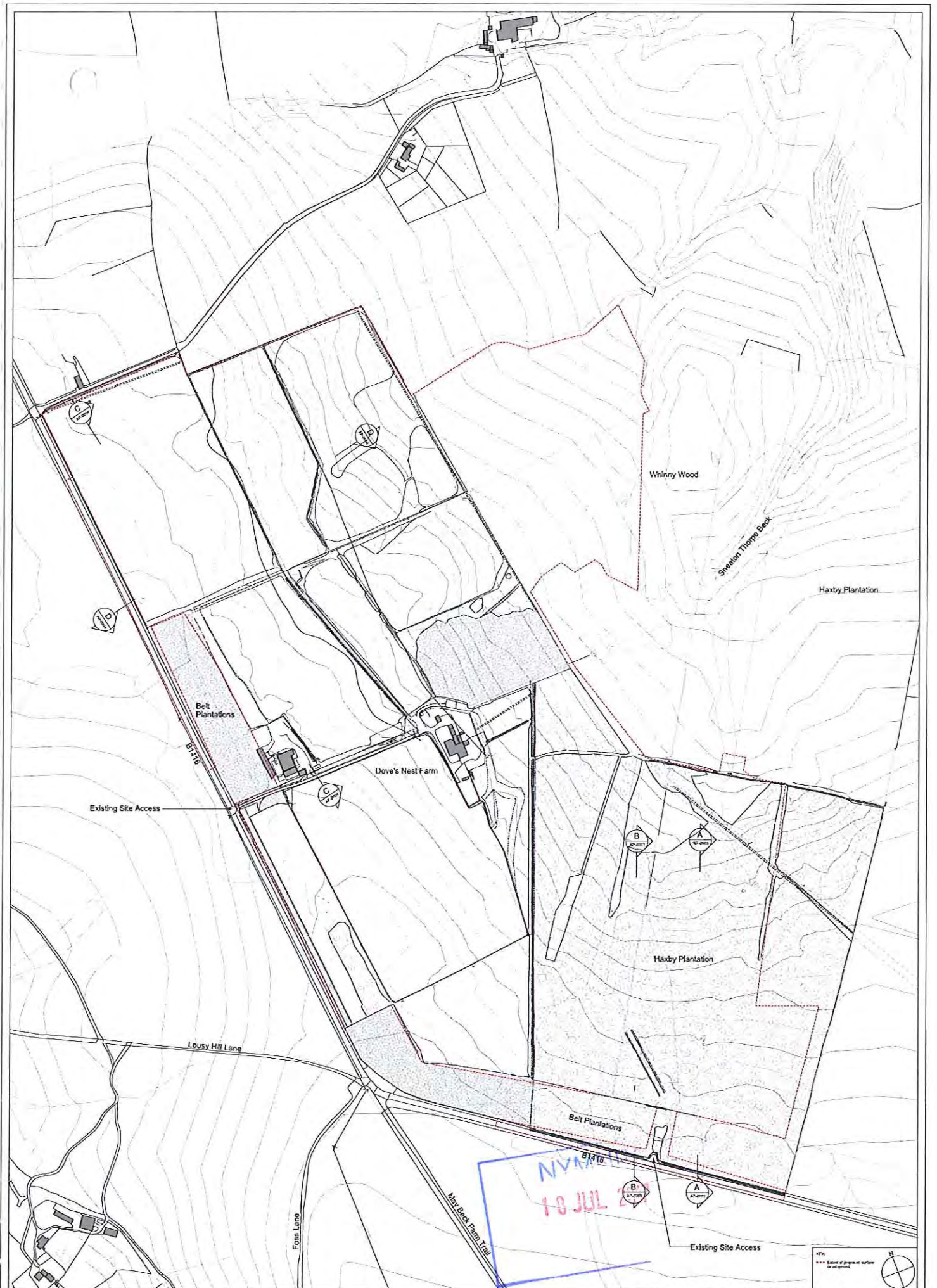
Appendix 1: Updated York Potash ES Non-Technical Summary (February 2015)

[provided on CD-Rom]



Appendix 2: Site Plan showing the Woodsmith Mine Site

NVMM/10/16
10 JUL 2017



Notes:
 1. This drawing is for informational purposes only.
 2. It is not to be used for any other purpose.
 3. All dimensions are in feet unless otherwise noted.
 4. All dimensions to be finished in situ.
 5. All dimensions to be finished in situ.

| Revisions: | Revisions: |
|-------------|-------------|
| 1. 01/10/12 | 1. 01/10/12 |
| 2. 01/10/12 | 2. 01/10/12 |
| 3. 01/10/12 | 3. 01/10/12 |
| 4. 01/10/12 | 4. 01/10/12 |
| 5. 01/10/12 | 5. 01/10/12 |

| Revisions: | Revisions: |
|-------------|-------------|
| 1. 01/10/12 | 1. 01/10/12 |
| 2. 01/10/12 | 2. 01/10/12 |
| 3. 01/10/12 | 3. 01/10/12 |
| 4. 01/10/12 | 4. 01/10/12 |
| 5. 01/10/12 | 5. 01/10/12 |

| Revisions: | Revisions: |
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| 1. 01/10/12 | 1. 01/10/12 |
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| 4. 01/10/12 | 4. 01/10/12 |
| 5. 01/10/12 | 5. 01/10/12 |

cartwright pickard architects
 Rural Tackling Centre
 100-100
 100-100

Project: 653 York Potash
 Drawing Title: Dove's Nest Farm Existing Site Plan
 Scale: 1:1000 @ A3
 Date: 28 September 2012

476
 --- Extent of proposed surface development

North Arrow

| | |
|-------------|-------------|
| Drawn By: | 653-AP-0002 |
| Checked By: | 653-AP-0002 |
| Revised By: | 653-AP-0002 |
| Scale: | 2 |

Appendix 3: Schedule of Amended Plans comprising the s73 application



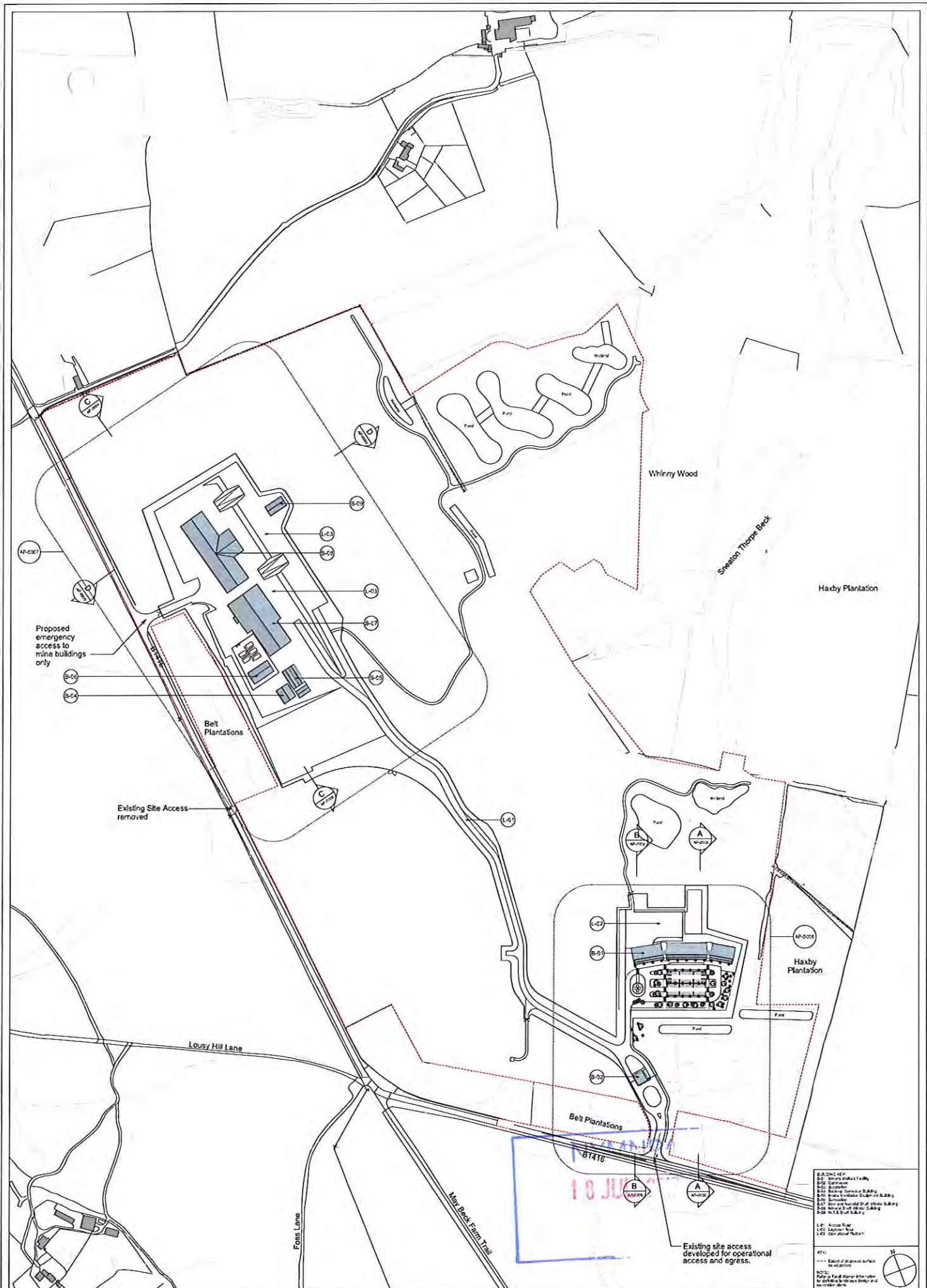
New and Replacement Plans submitted as part of s73 application

| Plan Title | Reference Number |
|---|---|
| Proposed Site Plan and Block Plan | 653-AP-0005 rev 4 |
| Proposed Welfare Buildings Site Plan | 653-AP-0006 rev 3 |
| Proposed Mine Buildings Site Plan | 653-AP-0007 rev 11 |
| Proposed Hard Landscaping Plan | 653-AP-0060 rev 4 |
| Gatehouse – Proposed Plans, Sections and Elevations | 653-AP-0032 rev 1 |
| Mine Buildings 04 – Back-up Generator Plan, Section and Elevations | 653-AP-0051 rev 5 |
| Mine Building 05 – Intake Ventilation Shaft Plan, Section, Elevations | 653-AP-0052 rev 5 |
| Mine Building 06 – Substation Plan, Section and Elevations | 653-AP-0053 rev 5 |
| Mine Building 07 – Men and Material Shaft Winder Plan, Section and Elevations | 653-AP-0054 rev 5 |
| Mine Building 08 – Mineral Shaft Winder Plan, Section and Elevations | 653-AP-0055 rev 6 |
| Mine Building 09 – MTS Shaft Building Plan, Section and Elevations | 653-AP-0056 rev 6 |
| Mine Building Elevation Study | 653-AP-0058 rev 4 |
| Proposed Site Sections Sheet 01 and 02 | 653-AP-0008 rev 3 and 653-AP-0009 rev 14 |
| MTS Scheme Operation Masterplan | YP-P2-CX-031 rev 12 |
| MTS Scheme Earthworks Strategy Construction Platforms | YP-P2-CX-033 rev 8 |
| Hours of Working | YP-P2-CX-080 rev 2 |
| Minehead Site Working Plan General Arrangement and Earthworks | YP-P2-CX-508 rev 10 |
| Minehead Site Working Plan Surface Water Drainage | YP-P2-CX-509 rev 3 |
| Minehead Site Working Plan – Lighting | YP-P2-CX-511 rev 2 |
| Proposed Minehead Existing Landscape Features | 2309.MH01 rev 04 |
| Proposed Minehead Removal of Existing Landscape Features | 2309.MH02 rev 04 |
| Proposed Minehead Restoration Proposals | 2309.MH03 rev 07 |
| Proposed Minehead Restoration Proposals – Cross Sections | 2309.MH04 rev 06, 2309.MH05 rev 06 and 2309.MH06 rev 06 |
| Proposed Mine and MTS Sub Surface Structures | 1000 ENV DFS DWG 005 Rev 4 |

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Appendix 4: Selected Amended Plans to show the amended form of development

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Notes:
 1. Other buildings not shown to be demolished only.
 2. All roads shown are to be closed at the end of the project.
 3. All roads shown are to be closed at the end of the project.
 4. All roads shown are to be closed at the end of the project.
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 8. All roads shown are to be closed at the end of the project.
 9. All roads shown are to be closed at the end of the project.
 10. All roads shown are to be closed at the end of the project.

| Revision | Description | By | Date |
|----------|------------------|-----|------|
| 1 | Issue for tender | ... | ... |
| 2 | Issue for tender | ... | ... |
| 3 | Issue for tender | ... | ... |
| 4 | Issue for tender | ... | ... |
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| 9 | Issue for tender | ... | ... |
| 10 | Issue for tender | ... | ... |

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 100 York Road
 York YO1 1EP

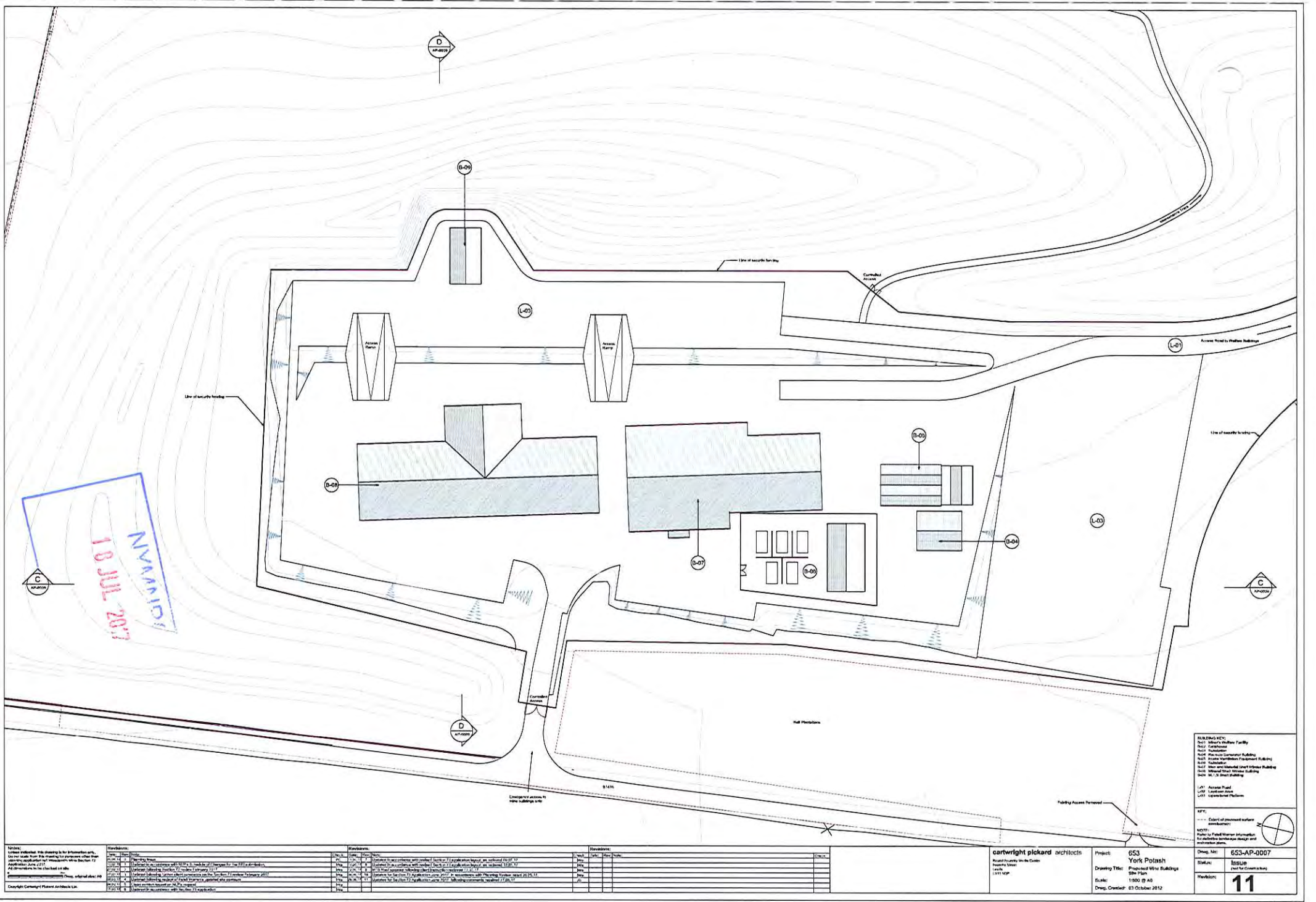
Project: 653 York Potash
 Drawing Title: Woodstock Mine Process Site and Block Plan
 Scale: 1:1500 @ A3
 Date: 28 September 2012

Drawn: [Name]
 Checked: [Name]
 Approved: [Name]

Revision: 4

- B-01: 1000m² Workshop
- B-02: 1000m² Workshop
- B-03: 1000m² Workshop
- B-04: 1000m² Workshop
- B-05: 1000m² Workshop
- B-06: 1000m² Workshop
- B-07: 1000m² Workshop
- B-08: 1000m² Workshop
- B-09: 1000m² Workshop
- B-10: 1000m² Workshop
- B-11: 1000m² Workshop
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NVA/IC/1

- BUILDING KEY:**
- 001 Millers Millers Facility
 - 002 Warehouse
 - 003 Warehouse
 - 004 Millers Millers Building
 - 005 Millers Millers Building
 - 006 Millers Millers Building
 - 007 Millers Millers Building
 - 008 Millers Millers Building
 - 009 Millers Millers Building
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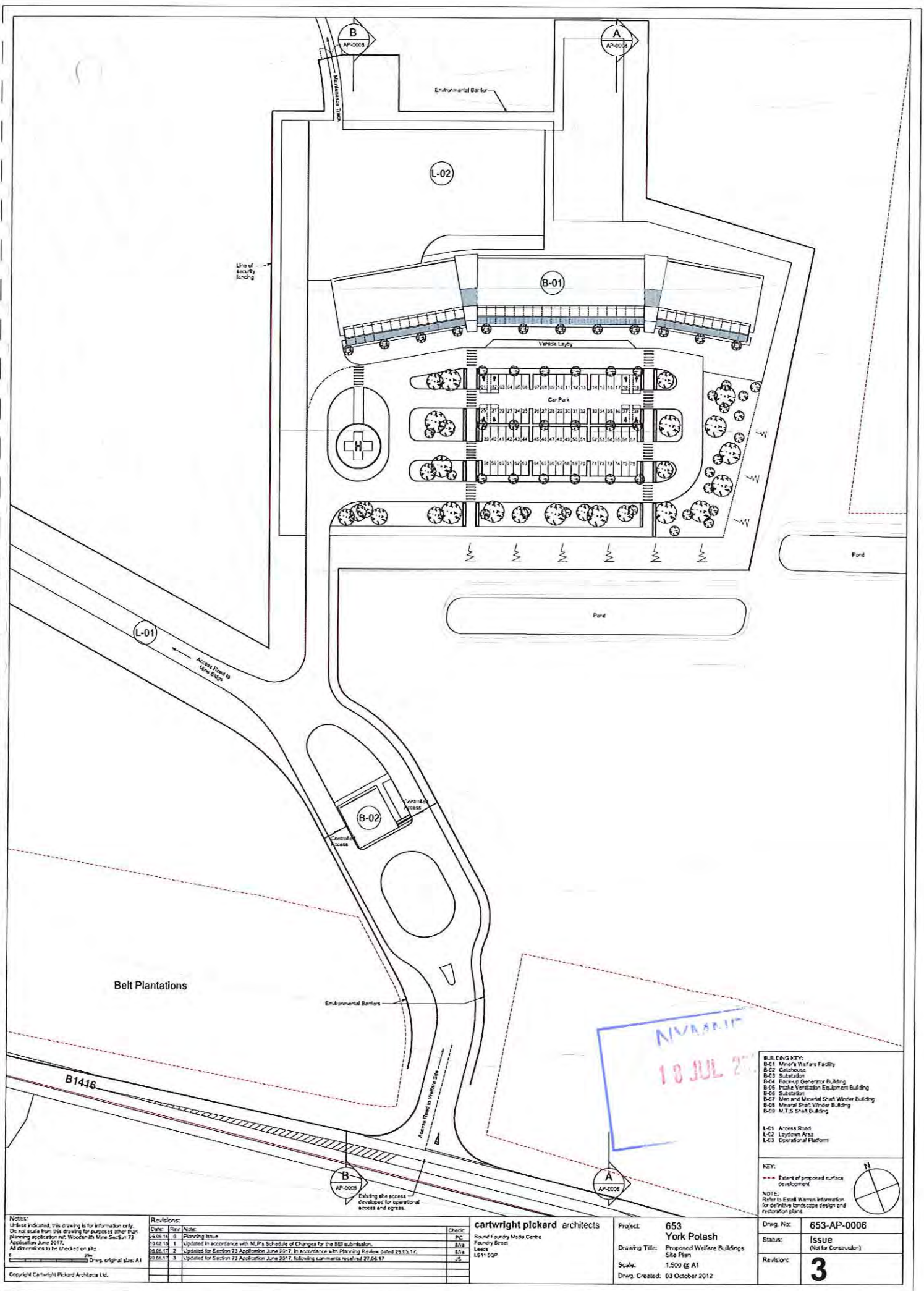
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| Project: | 653 | Dwg. No.: | 653-AP-0007 |
| Client: | York Polish | Issue: | Issue |
| Drawing Title: | Proposed Mill Buildings Site Plan | Issue: | Issue |
| Scale: | 1:500 (9 A3) | Issue: | Issue |
| Dwg. Control: | 03 October 2012 | Issue: | Issue |

| Rev. | Date | Description | By | Appr. |
|------|----------|------------------------|------|-------|
| 01 | 03/10/12 | Issue for construction | J.P. | J.P. |
| 02 | 03/10/12 | Issue for construction | J.P. | J.P. |
| 03 | 03/10/12 | Issue for construction | J.P. | J.P. |
| 04 | 03/10/12 | Issue for construction | J.P. | J.P. |
| 05 | 03/10/12 | Issue for construction | J.P. | J.P. |
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| 09 | 03/10/12 | Issue for construction | J.P. | J.P. |
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| 50 | 03/10/12 | Issue for construction | J.P. | J.P. |

cartwright pickard architects
 Project: 653
 Drawing Title: Proposed Mill Buildings Site Plan
 Scale: 1:500 (9 A3)
 Dwg. Control: 03 October 2012



11



- BUILDING KEY:**
- B-01 Miner's Welfare Facility
 - B-02 Sitehouse
 - B-03 Substation
 - B-04 Backup Generator Building
 - B-05 Intake Ventilation Equipment Building
 - B-06 Substation
 - B-07 Man and Material Shaft Winder Building
 - B-08 Mineral Shaft Winder Building
 - B-09 M.T.S Shaft Building

- L-01 Access Road**
L-02 Laydown Area
L-03 Operational Platform

KEY:
 --- Extent of proposed surface development

NOTE:
 Refer to Ecol Women Information for definitive landscape design and restoration plans



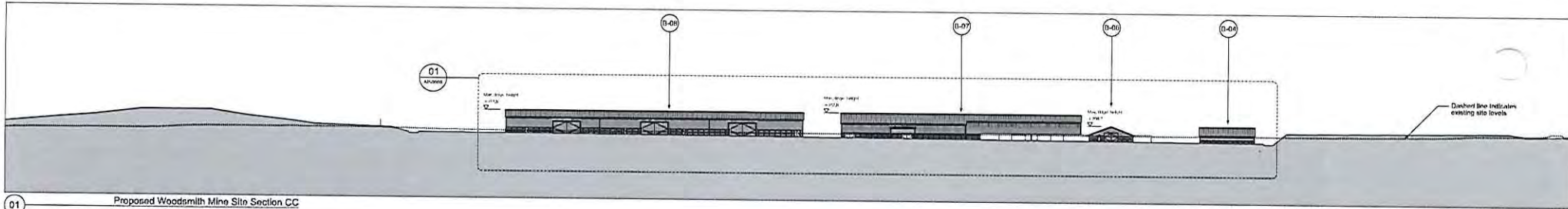
Notes:
 Unless indicated, this drawing is for information only. Do not scale from this drawing for purposes other than planning application no. Woodhouse Mine Section 73 Application June 2017. All dimensions to be checked on site.
 1/20 Drawn original size: A1
 1/20 Drawn original size: A1

| Revisions: | | | Check: |
|------------|------|--|--------|
| Date | Size | Note | |
| 23.08.14 | B | Planning Issue | PC |
| 13.02.16 | 1 | Updated in accordance with N.P.'s Schedule of Changes for the SEI submission. | Eva |
| 24.06.17 | 2 | Updated for Section 73 Application June 2017. In accordance with Planning Review dated 28.05.17. | Eva |
| 29.06.17 | 3 | Updated for Section 73 Application June 2017. Following comments received 27.06.17. | JS |

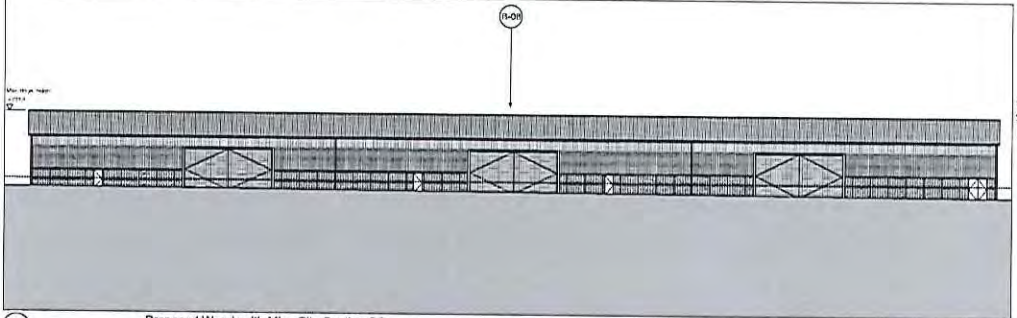
cartwright pickard architects
 Round Foundry Media Centre
 Foundry Street
 Leeds
 LS11 5QP

Project: 653 York Potash
Drawing Title: Proposed Welfare Buildings Site Plan
Scale: 1:500 @ A1
Drawn Created: 03 October 2012

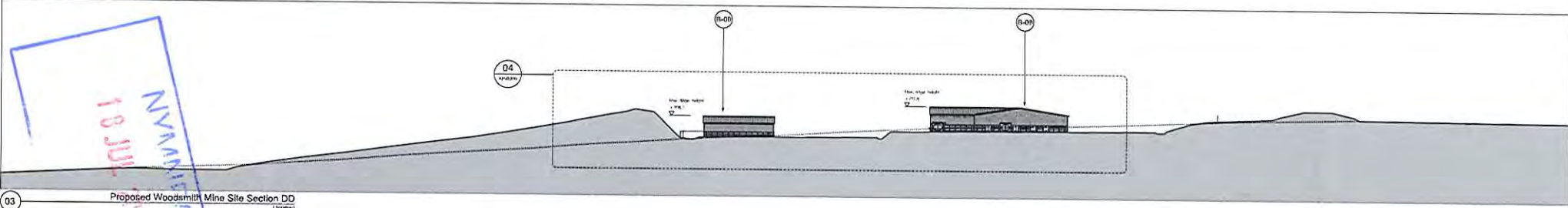
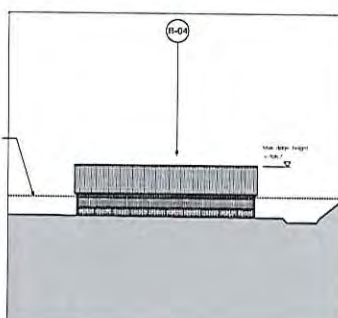
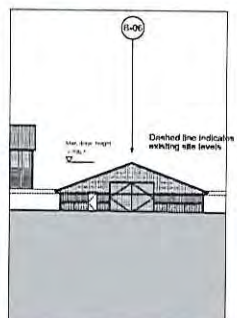
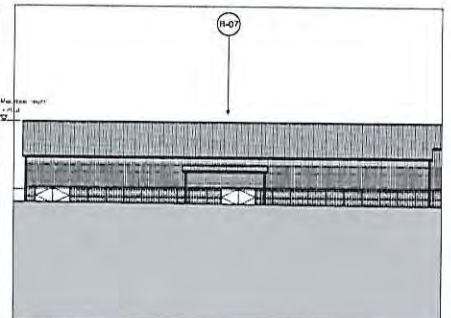
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| Status: | ISSUE (Not for Construction) |
| Revised: | 3 |



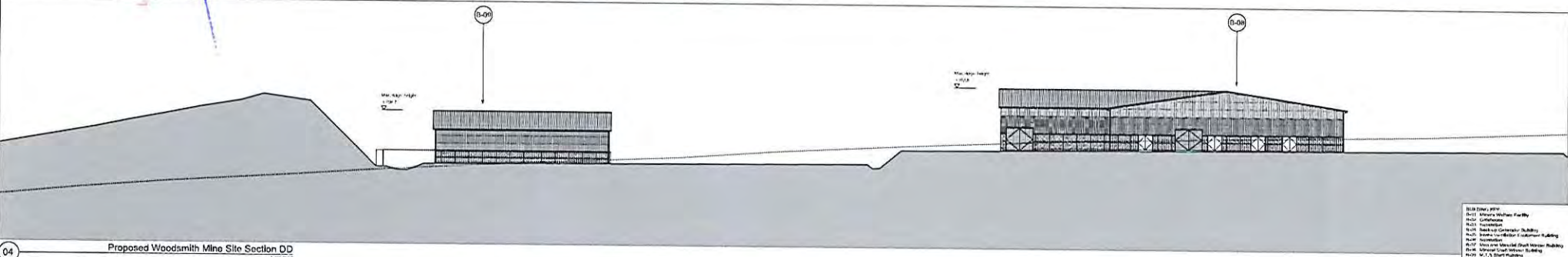
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02 Proposed Woodsmith Mine Site Section CC



03 Proposed Woodsmith Mine Site Section DD



04 Proposed Woodsmith Mine Site Section DD

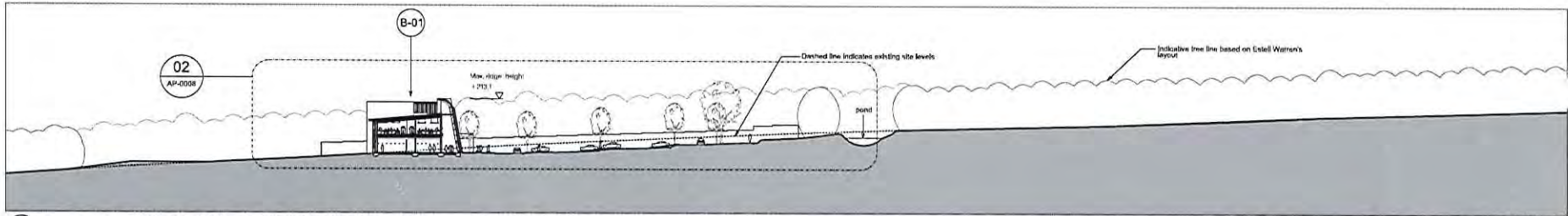
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 18 JUN 2014

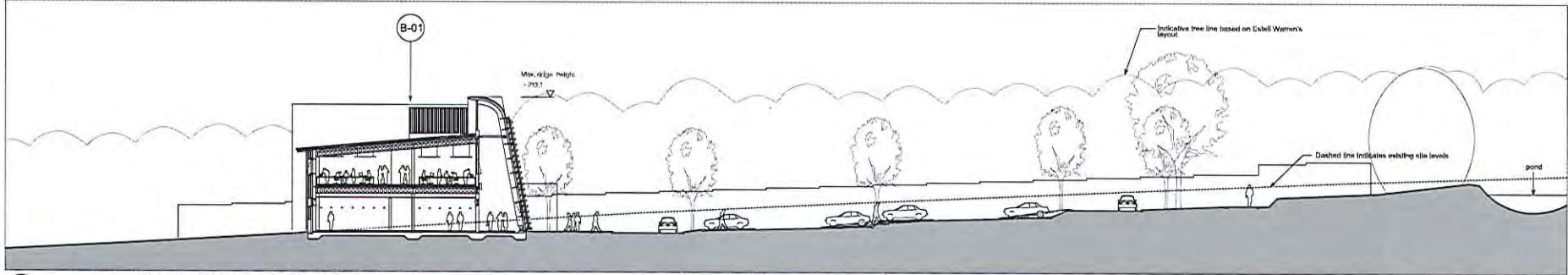
cartwright plekard architects
 18 JUN 2014

Project: 653 York Polish
 Drawing Title: Woodsmith Mine Proposed Site Sections Sheet 03
 Scale: 1:500 @ A3
 Date: 12 June 2014

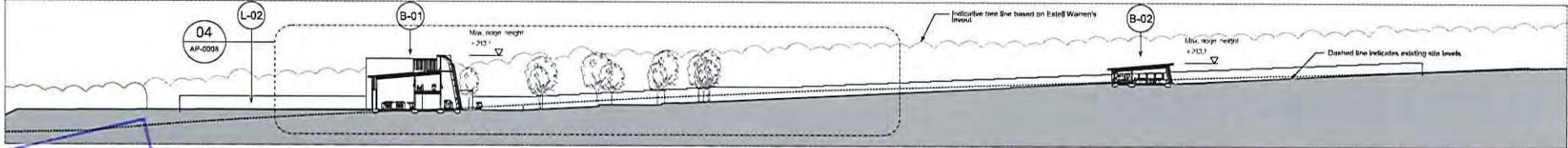
Sheet No: 653-AP-0008
 Status: Issue
 Revision: 14



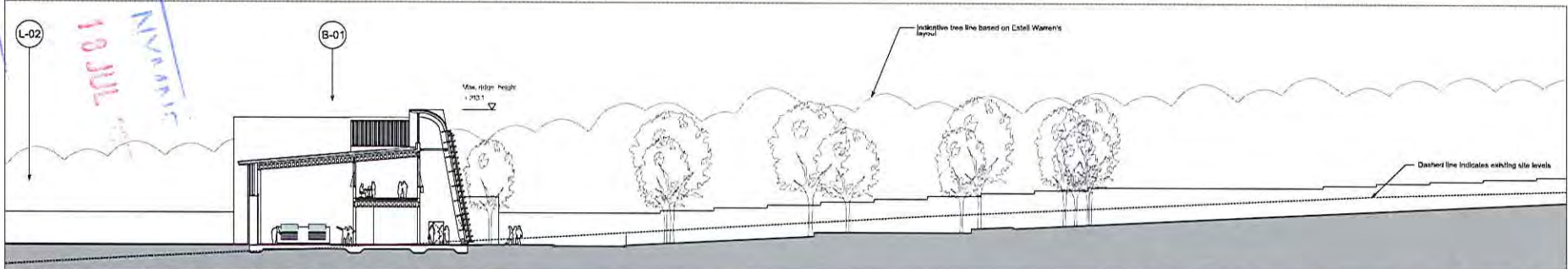
01 Proposed Woodsmith Mine Site Section AA
1:500 @ A1



02 Proposed Woodsmith Mine Site Section AA
1:200 @ A1



03 Proposed Woodsmith Mine Site Section BB
1:500 @ A1



04 Proposed Woodsmith Mine Site Section BB
1:500 @ A1

Buildings Key

- B-01 Welfare Building
- B-02 Canteen
- L-02 Laydown Area

NOTE: Refer to Estell Warren information for definitive Landscaping Plans and Restoration Plans.

Notes:
Unless indicated this drawing is for information only. Do not scale from this drawing for purposes other than planning application re: Woodsmith Mine Section 73 Application June 2017.
All dimensions to be checked on site.
Drawn: [Signature] Date: 09/09/12
Checked: [Signature] Date: 09/09/12
Original size: A1

| Revisions: | | Revisions: | |
|------------|------|------------|------|
| Date: | Rev: | Date: | Rev: |
| 20.06.16 | 01 | | |
| 10.02.17 | 1 | | |
| 06.01.17 | 2 | | |
| 08.07.17 | 3 | | |

| Revisions: | | Revisions: | |
|------------|-------|------------|-------|
| Check: | Date: | Check: | Date: |
| MC | | | |
| MS | | | |
| MP | | | |

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Foundry Street
Leeds
LS11 5DP

Project: 653 York Potash
Drawing Title: Woodsmith Mine Proposed Site Sections Sheet 01
Scale: 1:200 (1:500 @ A1)
Drawn: Created: 28 September 2012

Drawn: [Signature]
Status: Issue (Not for Construction)
Revision: 3

A1 A B C D E F G H I J K L M N



- Notes:**
- This drawing shows earthworks requirements in relation to the proposed earthwork bunds.
 - Existing subsoil and top soil is to be stripped and replaced following construction of the bunds as follows. Assumed existing and proposed earthworks layer thicknesses are as follows:
 - Existing Top soil layer thickness
 - Existing Sub soil layer thickness
 - Proposed thicknesses as follows:

| | Top soil | Sub soil |
|-----------------------|----------|----------|
| Woodland (Non Capped) | 0.30m | 0.60m |
| Woodland (Capped) | 0.30m | 1.70m |
| Scrub | 0.15m | 0.60m |
| Grassland | 0.30m | 0.20m |

- Volumes shown are bund capacities excluding top soil and sub soil.

Key:

- Base case earthworks (construction)
- Additional earthworks to base case (post shaft construction)
- Ponds area

| | | | | |
|-----------|----------|----|---------|----------|
| 10 | 12/07/17 | KK | JB | CW |
| S/3 Issue | | | | |
| Issue | Date | By | Checked | Approved |



Client: **Sirius Minerals Plc**

Site Name: **Woodsmith Mine Minehead**

Woodsmith Mine Site General Arrangement Illustrative Earthworks Strategy Earthworks Bunds and Ponds

Scale of A1: **1:2000**

Revision: **Highways**

App No: **253285** Issue

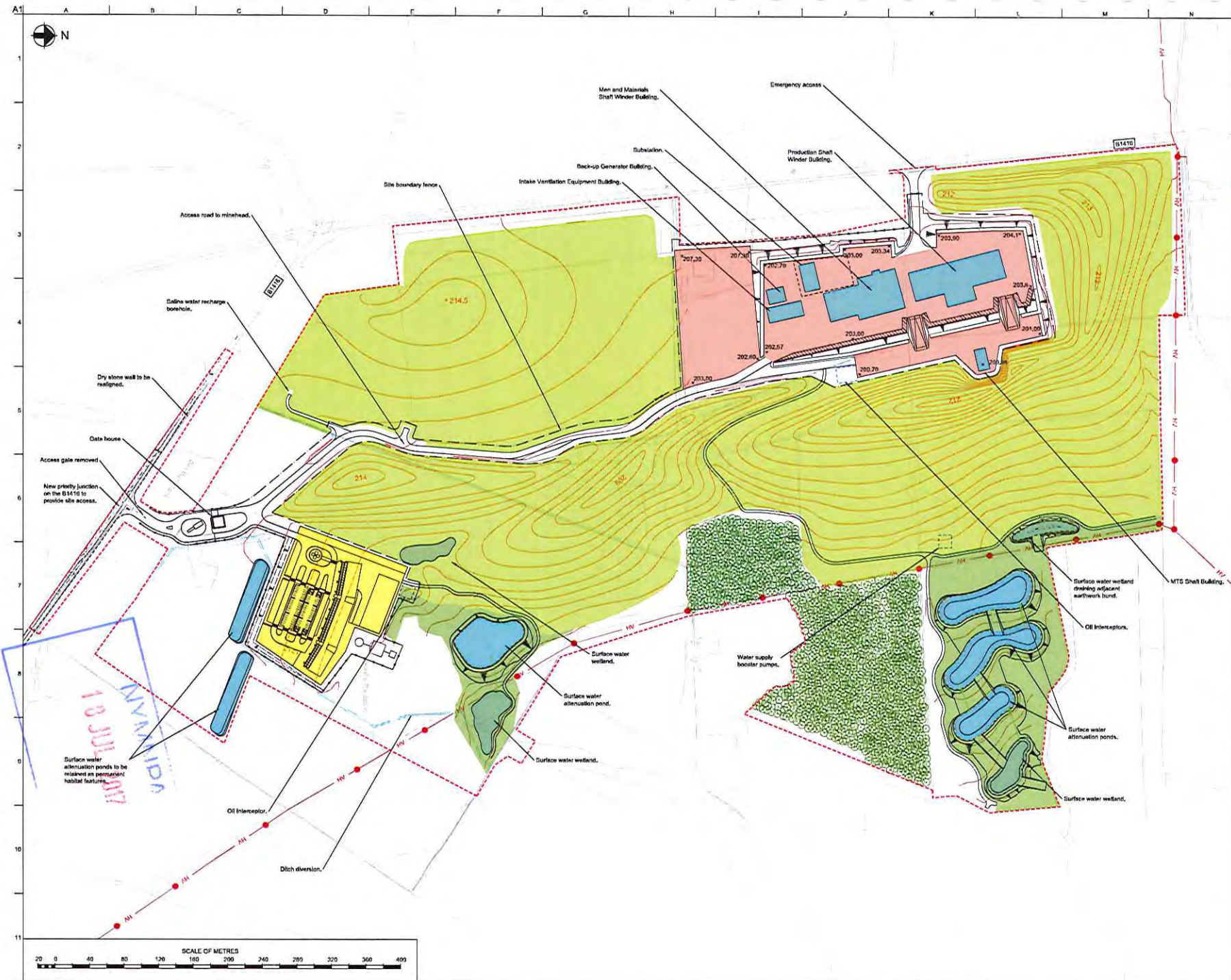
Drawing No: **YP-P2-CX-032** Issue **10**

Maximum Earthworks Volumes

| Item | Area (m²) | Volume (m³) | Remarks |
|--|----------------|----------------|---------|
| Proposed Bunds (Top and sub soil) | | | |
| Topsoil Preparation | 35,400 | 35,400 | |
| Subsoil and Associated Ponds | 35,400 | 35,400 | |
| Grassland | 101,400 | 101,400 | |
| Woodland and Scrubland | 12,000 | 12,000 | |
| Woodland (Top) | 12,000 | 12,000 | |
| Woodland (Subsoil) | 12,000 | 12,000 | |
| Woodland (Capped) | 12,000 | 12,000 | |
| Scrub | 12,000 | 12,000 | |
| Grassland | 12,000 | 12,000 | |
| Total (Proposed) | 357,400 | 357,400 | |
| Existing Bunds (Top and sub soil) | | | |
| Topsoil Preparation | 35,400 | 35,400 | |
| Subsoil and Associated Ponds | 35,400 | 35,400 | |
| Grassland | 101,400 | 101,400 | |
| Woodland and Scrubland | 12,000 | 12,000 | |
| Woodland (Top) | 12,000 | 12,000 | |
| Woodland (Subsoil) | 12,000 | 12,000 | |
| Woodland (Capped) | 12,000 | 12,000 | |
| Scrub | 12,000 | 12,000 | |
| Grassland | 12,000 | 12,000 | |
| Total (Existing) | 357,400 | 357,400 | |

Minimum Earthworks Volumes

| Item | Area (m²) | Volume (m³) | Remarks |
|--|----------------|----------------|---------|
| Proposed Bunds (Top and sub soil) | | | |
| Topsoil Preparation | 35,400 | 35,400 | |
| Subsoil and Associated Ponds | 35,400 | 35,400 | |
| Grassland | 101,400 | 101,400 | |
| Woodland and Scrubland | 12,000 | 12,000 | |
| Woodland (Top) | 12,000 | 12,000 | |
| Woodland (Subsoil) | 12,000 | 12,000 | |
| Woodland (Capped) | 12,000 | 12,000 | |
| Scrub | 12,000 | 12,000 | |
| Grassland | 12,000 | 12,000 | |
| Total (Proposed) | 357,400 | 357,400 | |
| Existing Bunds (Top and sub soil) | | | |
| Topsoil Preparation | 35,400 | 35,400 | |
| Subsoil and Associated Ponds | 35,400 | 35,400 | |
| Grassland | 101,400 | 101,400 | |
| Woodland and Scrubland | 12,000 | 12,000 | |
| Woodland (Top) | 12,000 | 12,000 | |
| Woodland (Subsoil) | 12,000 | 12,000 | |
| Woodland (Capped) | 12,000 | 12,000 | |
| Scrub | 12,000 | 12,000 | |
| Grassland | 12,000 | 12,000 | |
| Total (Existing) | 357,400 | 357,400 | |



Notes:
 1. Do not scale for purposes other than planning application re: Woodsmith Mine and MTS.
 2. For operational signing refer to drawing YP-P2-CX-511.

- Key:
- - - - - Extent of proposed Development
 - Topographical Survey
 - Site Earthworks Contours
 - Earthworks bund
 - Operational Building Layout
 - Surface Water Attenuation Pond / Wetland Area
 - Platform / laydown areas
 - Welfare Facility and Carpark
 - 2.4m High Black Mesh Fence
 - 3m High Environmental Barrier
 - Existing High Voltage Overhead Cables
 - Existing Watercourses
 - Surface water drainage attenuation pond
 - Surface water drainage wetland
 - 214.5 Maximum bund height

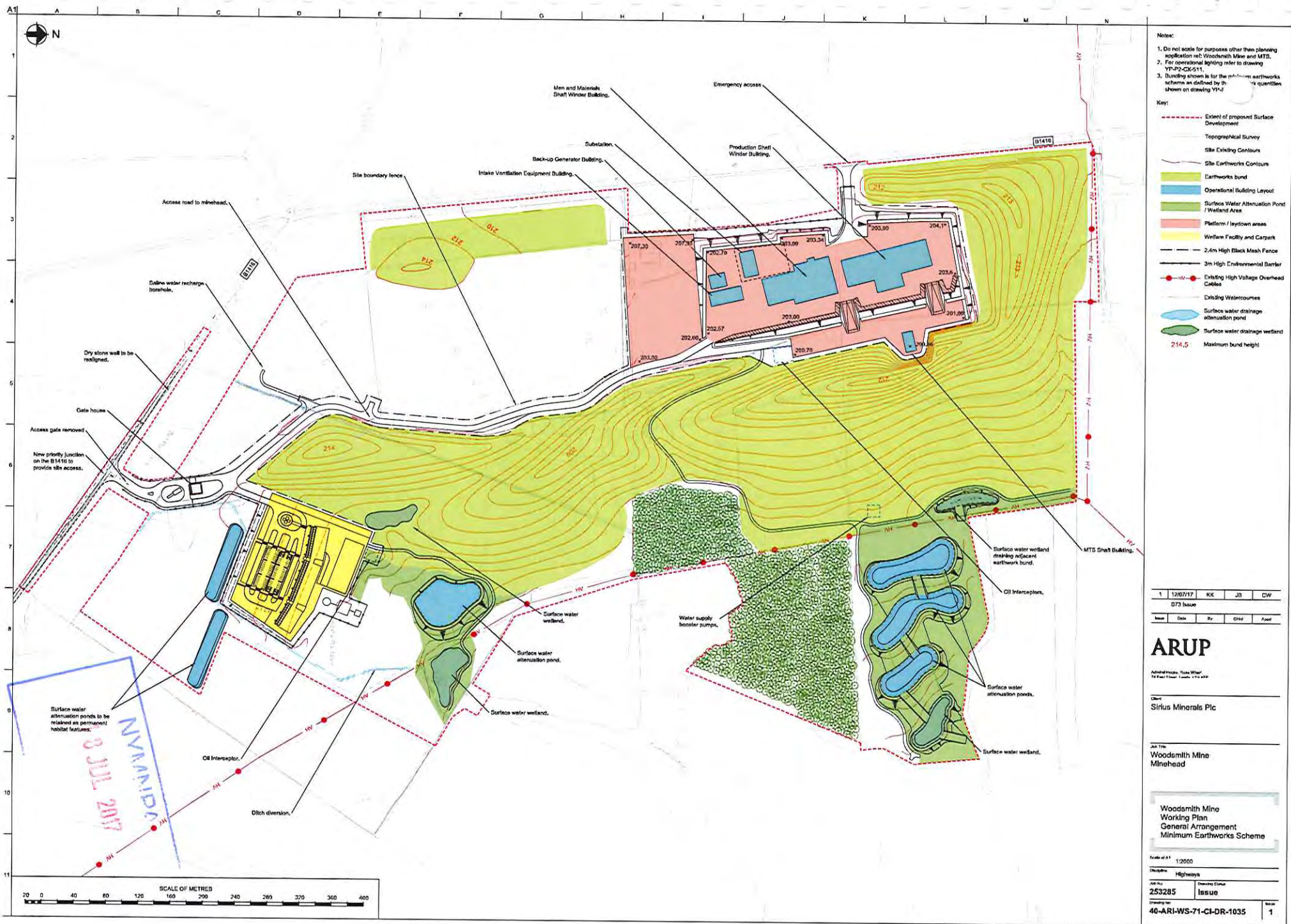
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| 10 | 07/07/17 | KK | JR | CW |
| S73 Issue | | | | |
| Issue | Date | By | Check | Appr |

ARUP
 18 JUL 2017
 Sirus Minerals Plc

Site Title
 Woodsmith Mine
 Minehead

Woodsmith Mine
 Working Plan
 General Arrangement
 and Earthworks

| | |
|----------------|--------------|
| Scale of Plan | 1:2000 |
| Classification | Highways |
| Job No. | 253285 |
| Drawing No. | Issue |
| Drawing No. | YP-P2-CX-508 |
| Sheet | 10 |



- Notes:
- Do not scale for purposes other than planning application only: Woodsmith Mine and MTS.
 - For operational lighting refer to drawing VP-P2-CX-511.
 - Bundling shown is for the minimum earthworks scheme as defined by the 1% quantiles shown on drawing VP-F

- Key:
- Extent of proposed Surface Development
 - Topographical Survey
 - Site Existing Contours
 - Site Earthworks Contours
 - Earthworks bund
 - Operational Building Layout
 - Surface Water Attenuation Pond / Wetland Area
 - Platform / laydown areas
 - Welfare Facility and Carpark
 - 2.4m High Black Mesh Fence
 - 3m High Environmental Barrier
 - Existing High Voltage Overhead Cables
 - Existing Watercourses
 - Surface water drainage attenuation pond
 - Surface water drainage wetland
 - 214.5 Maximum bund height

| | | | | |
|-----------|----------|----|-------|----------|
| 1 | 12/07/17 | JK | JB | CW |
| D73 Issue | | | | |
| Issue | Date | By | Check | Approved |

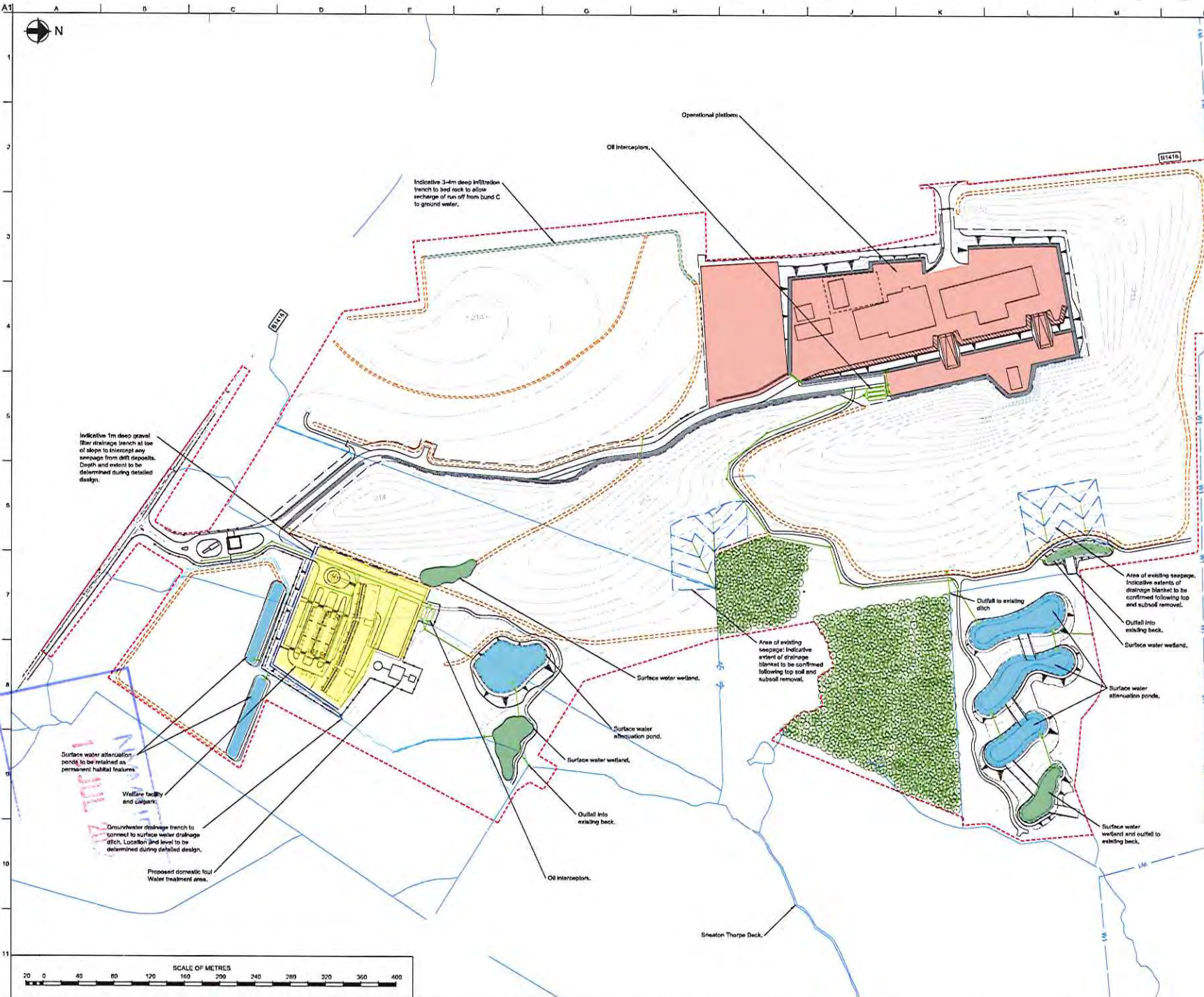
ARUP
 Australasia, Asia, Africa, Middle East, Europe, North America, South America, Australia, New Zealand

Client:
 Sirius Minerals Plc

Job Title:
 Woodsmith Mine Minehead

Woodsmith Mine Working Plan General Arrangement Minimum Earthworks Scheme

| | |
|---------------|-------------------------|
| Scale of A1 | 1:2000 |
| Discipline | Highways |
| Job No | 253285 |
| Drawing No | Issue |
| Drawing title | 40-ARI-WS-71-CI-DR-1035 |
| Sheet | 1 |



Indicative 1m deep gravel filter drainage trench at toe of slope to intercept any seepage from drift deposits. Depth and extent to be determined during detailed design.

Indicative 3-4m deep infiltration trench to bed rock to allow recharge of run off from bund C to ground water.

Surface water attenuation ponds to be retained as permanent habitat features

Wellbore facility and carpark

Groundwater drainage trench to connect to surface water drainage ditch. Location and level to be determined during detailed design.

Proposed domestic foul Water treatment area.

Oil interceptors

Operational platform

Surface water wetland

Surface water attenuation pond

Surface water wetland

Outfall into existing beck

Oil interceptors

Area of existing seepage. Indicative extent of drainage blanket to be confirmed following top soil and subsoil removal.

Outfall into existing ditch

Area of existing seepage. Indicative extent of drainage blanket to be confirmed following top soil and subsoil removal.

Outfall into existing beck

Surface water wetland

Surface water attenuation ponds

Surface water wetland and outfall to existing beck

Sneaton Thorpe Beck

Notes:
1. Do not scale for purposes other than planning application ref: Woodsmith Mine and MTD.

- Key:**
- -- Extent of pre development
 - Proposed contour
 - Surface attenuation pond
 - Surface water drainage Wetland
 - Existing water main
 - Sewer
 - Drainage ditch
 - Groundwater drain
 - Existing watercourses
 - Carrier drain and outfall
 - Working platform / Lay down area
 - Wellbore facility and carpark

| | | | | |
|-----------|----------|----|-------|----------|
| 3 | 07/07/17 | KK | JB | CW |
| S73 Issue | | | | |
| Issue | Date | By | Check | Approved |

ARUP

Authorised Person: Louise Wright
 Project Director: Louise Wright

Client:
Sirius Minerals Plc

Job Title:
Woodsmith Mine Minehead

Minehead Site Working Plan Surface Water and Groundwater Drainage

| | |
|----------------|--------------|
| Issue of A1 | 1/2000 |
| Drawings | Drainage |
| Job No. | 253285 |
| Drawing Status | Issue |
| Drawing No. | YP-P2-CX-500 |
| Sheet | 3 |