

Memo

**HaskoningDHV UK Ltd.
Industry & Buildings**

To: Sirius Minerals Plc
From: RHDHV
Date: 04 April 2017
Copy:
Our reference: 40-RHD-WS-70-EN-NT-0001 Rev 1
Classification: Project related

Subject: Appendix 7 - Temporary Structures

1 Temporary Welfare Facilities

- 1.1.1 This document describes the temporary structures North Midland Construction (NMC), Associated Mining Construction UK (AMC) and Sirius Minerals Plc (SM) propose to erect for Phase 3 Works at Woodsmith Mine, as required by Condition NYMNPA-68 of the planning permission. Phase 3 will include 3 temporary welfare facilities, including a central welfare facility located to the west of the working platform, a smaller welfare facility next to the concrete batching plant that will be used by AMC and a smaller welfare facility next to the farm buildings which will be used by NMC. Full details of the components of these facilities are provided below (Section 5.1.1) and on the attached drawings (17343-PIW-B1-ZZ-DR-A-0001-P5, 17343-PIW-B1-ZZ-DR-A-0002-P3, 17343-PIW-B1-ZZ-DR-A-0003-P4, 17343-PIW-B1-ZZ-DR-A-0004.-P4, 17343-PIW-B1-ZZ-DR-A-0006-P3 and 40-ARI-WS-71-CI-DR- 1062). Each of these are discussed below. Drawings, photographs and other documentation showing examples of these facilities also included
- 1.1.2 Welfare facilities, as a minimum equal to that required by the Construction (Design and Management) Regulations 2015 will be provided, in addition to any specific requirements of the customer, and will be regularly serviced and maintained. There will be changing facilities, Canteen/mess room and adequate toilet facilities on site.
- 1.1.3 All offices and site accommodation are non-smoking.

2 Central Welfare Facilities SM

- Office block with 61 work stations, 6 meeting rooms, IT room, kitchen and toilet facilities;
- shower/changing/toilet block with separate facilities for visitors (5 showers, 5 toilets), male workers (48 showers, 17 toilets), and female workers (5 showers and 5 toilets) and laundry room;
- medical centre with 3 consultation rooms, treatment room, recovery room toilets, showers and kitchenette;
- canteen and kitchen;
- deployment room/tally room/lamp room;
- mine rescue room;
- domestic wastewater storage tank;
- car park for 58 cars; and

- bus drop-off area.

3 AMC Facilities

3.1.1 For the concrete batch plant:

- 1 x site office with 6 work stations;
- 1 x site office with 2 work stations/ meeting room for up to 12 people/ kitchenette;
- 1 x canteen with kitchenette for up to 12 people;
- 1 x toilet block (with male toilets x 3 and female toilet x 1);
- washing facilities with hot running water within toilet block and kitchenettes;
- 1 x drying room; and
- 1 x generator for welfare facility power.

3.1.2 For the shaft sinking operations:

- 1 x site office with 4 work stations/ planning area;
- 2 x canteen with kitchenette for up to 12 people;
- 1 x toilet block (with male toilets x 3 and female toilet x 1);
- washing facilities with hot running water within toilet blocks;
- 1 x drying room; and
- 1 x generator for welfare facility power.

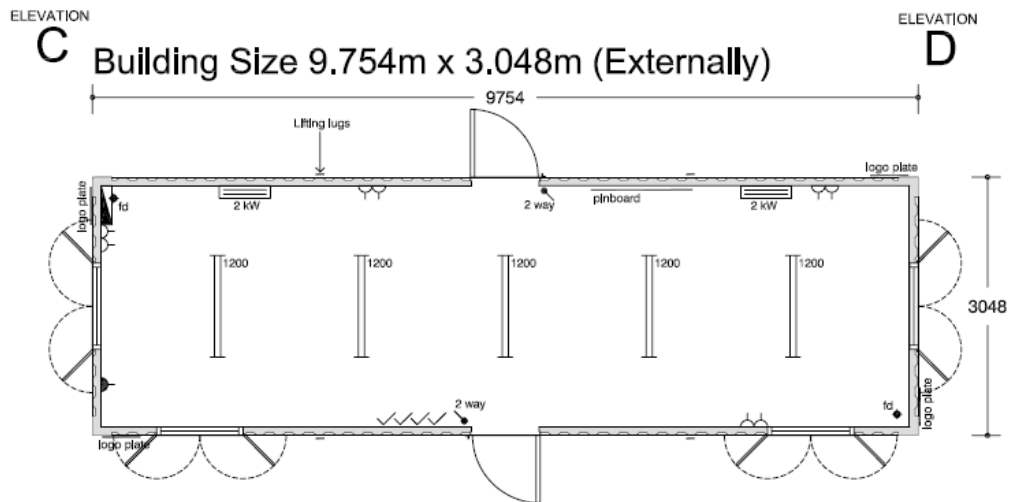
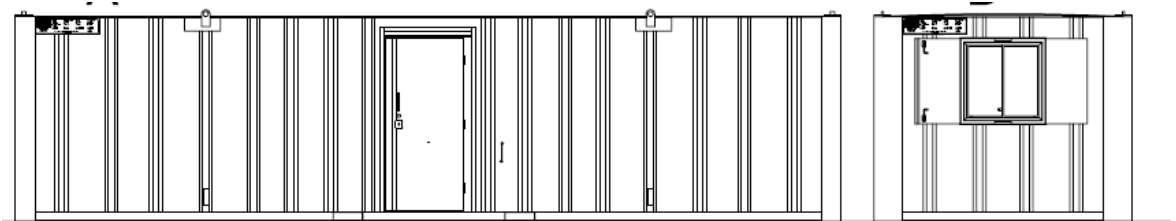
4 NMC Facilities

4.1.1 The following facilities, which have been established during Phase 2, will remain on site and be used by NMC and WJG during the Phase 3 Works:

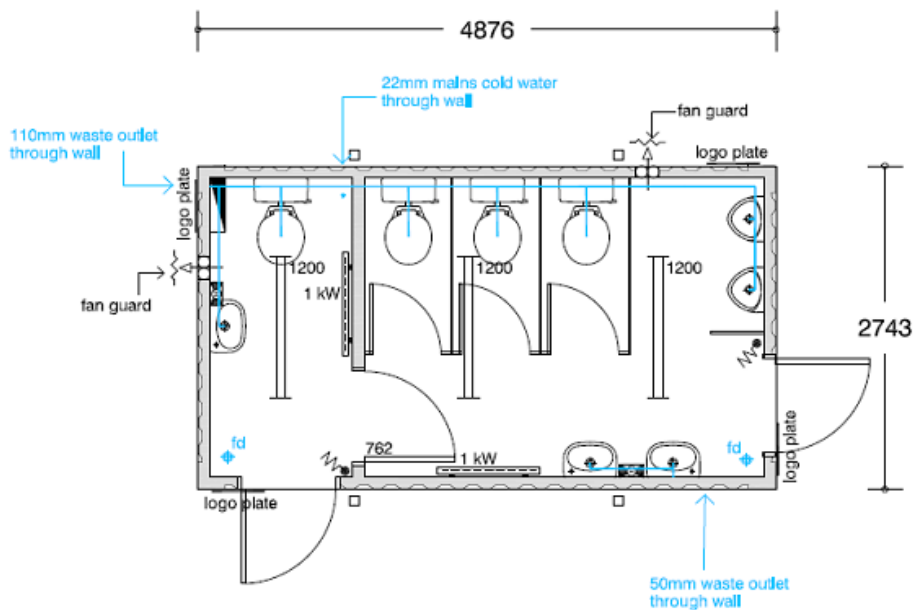
- 4 x site office buildings comprising 20 work stations (9.8m x 3.1m x 2.5m tall);
- 1 x meeting room for up to 20 people (9.8m x 3.1m x 2.5m tall);
- 1 x split toilet-kitchen unit (9.8m x 3.1m x 2.5m tall);
- 1 x canteen with kitchenette for up to 20 people each (9.8m x 3.1m x 2.5m tall);
- 1 x split drying room - toilet block with male and female toilets (9.8m x 3.1m x 2.5m tall);
- Washing facilities with hot running water within toilet blocks and canteen;
- 1 x storage container (6.1m x 2.5m x 2.5m tall);
- 1 x bunded COSHH store (6.1m x 2.5m x 2.5m tall);
- 2 x static fuel bowzers (2000 litre);
- 1 x towable fuel bowser (6000 litre);
- Laydown areas for materials (10x10m + 10x10m + 15x7m + 10/13m – as shown in drawing 40-NMC-WS-70-FC-DR-0002); and
- Car parking for up to 34 vehicles.

5 Typical Office / Welfare / Storage Units to be Used at each of the Compounds

5.1.1 Office / canteen / meeting room / split drying room-toilet / split toilet-kitchen (9.8m x 3.1m x 2.5m tall, colour RAL 6008, Brown Green):



6 Typical Toilet Units to be Used



7 Materials and Colour

- 7.1.1 All temporary accommodation will be of steel construction, galvanised and painted in colour RAL 6008, as shown below:



RAL 6008

8 Lighting

- 8.1.1 Temporary lighting will be used around the compound to illuminate paths and entrances. This will be in the form of halogen flood lights mounted on the temporary buildings or posts, as required. Lighting will not impact beyond the compound perimeter, as shown on the Compound Layout Drawing.



Typical flood light unit

9 Timescales

- 9.1.1 The temporary accommodation as detailed within this Technical Note will be in place for the duration of Phase 3 works, which will run from June until October.

10 Photographs

10.1.1 Photograph 1 shows the temporary structures currently established on site next to the farm buildings as part of the highway improvement works (Phase 1 and Phase 2). These temporary buildings will remain in place for the Phase 3 Works. All new site offices will be of a similar nature.



Photograph 1 – Temporary offices

10.1.2 Photograph 2 shows the concrete batching plant, a Mobilmix 2.5-C – Liebherr, that will be erected temporarily on site during the Phase 3 Works.



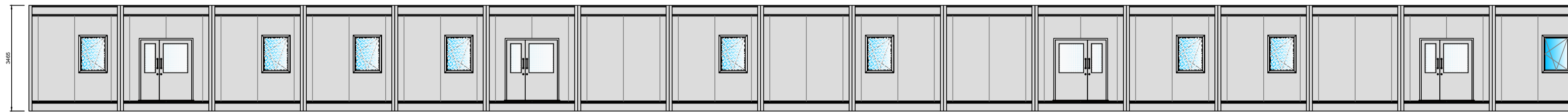
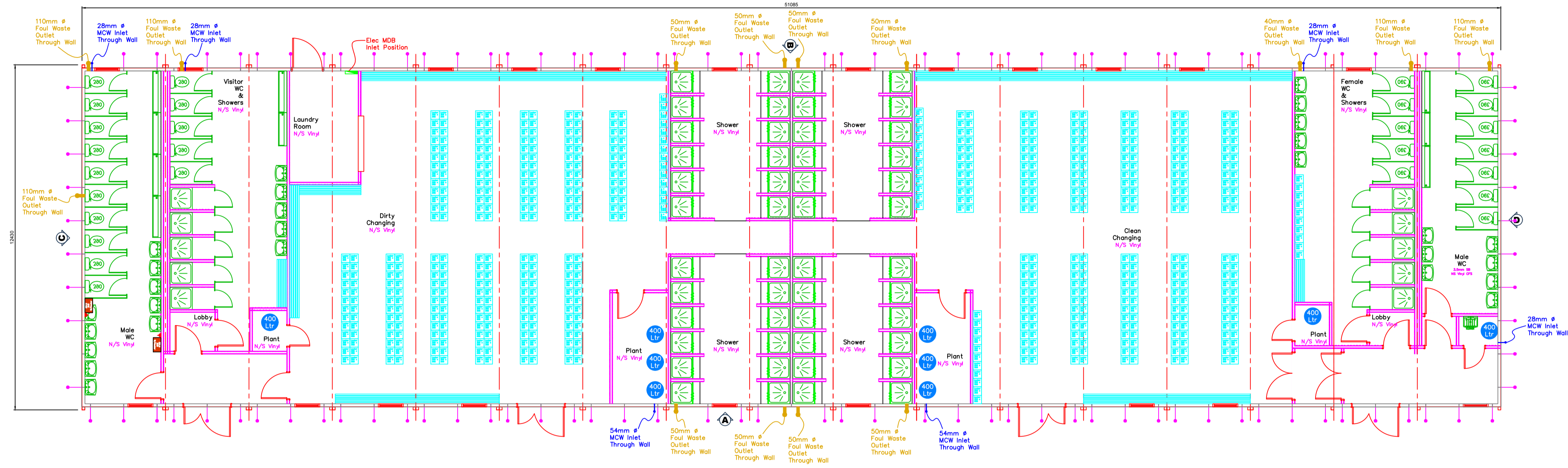
Photograph 2 – Concrete batching plant and a Mobilmix 2.5-C – Liebherr

10.1.3 Photograph 3 shows typical water tanks of the type associated with the concrete batching plant, and what they will look like.

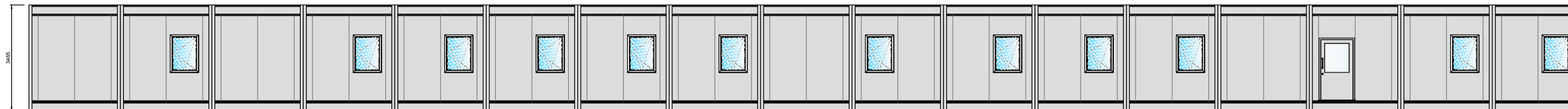


Photograph 3 – Typical water tanks associated with the concrete batching plant

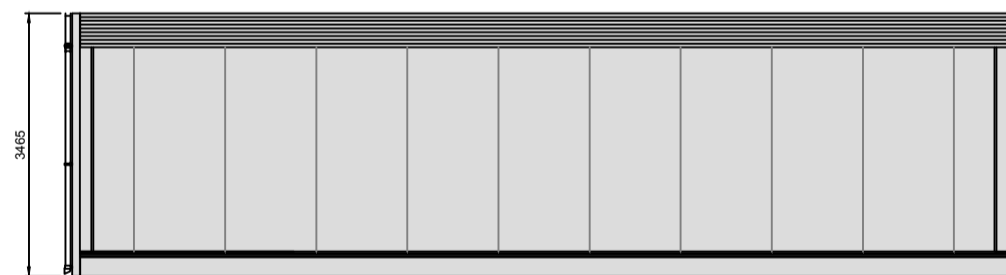
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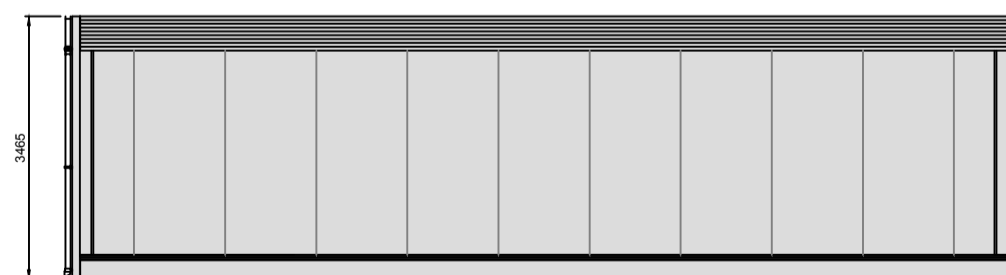
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

NOTES.

| Rev | By | Description | Date |
|-----|-----|---|----------|
| P5 | MJM | Elevations & Services Shown | 27/03/17 |
| P4 | MJM | Revised To Suit Clients Comments (17/03/17) | 20/03/17 |
| P3 | MJM | Staircases Shown | 14/03/17 |
| P2 | MJM | Showers Revised | 13/03/17 |
| P1 | MJM | Revised To Suit Data Sheets | 07/03/17 |



HEAD OFFICE

PREMIER MODULAR LIMITED, CATFOSS LANE,
BRANDESBURTON, DRIFFIELD
EAST YORKSHIRE YO25 8EJ



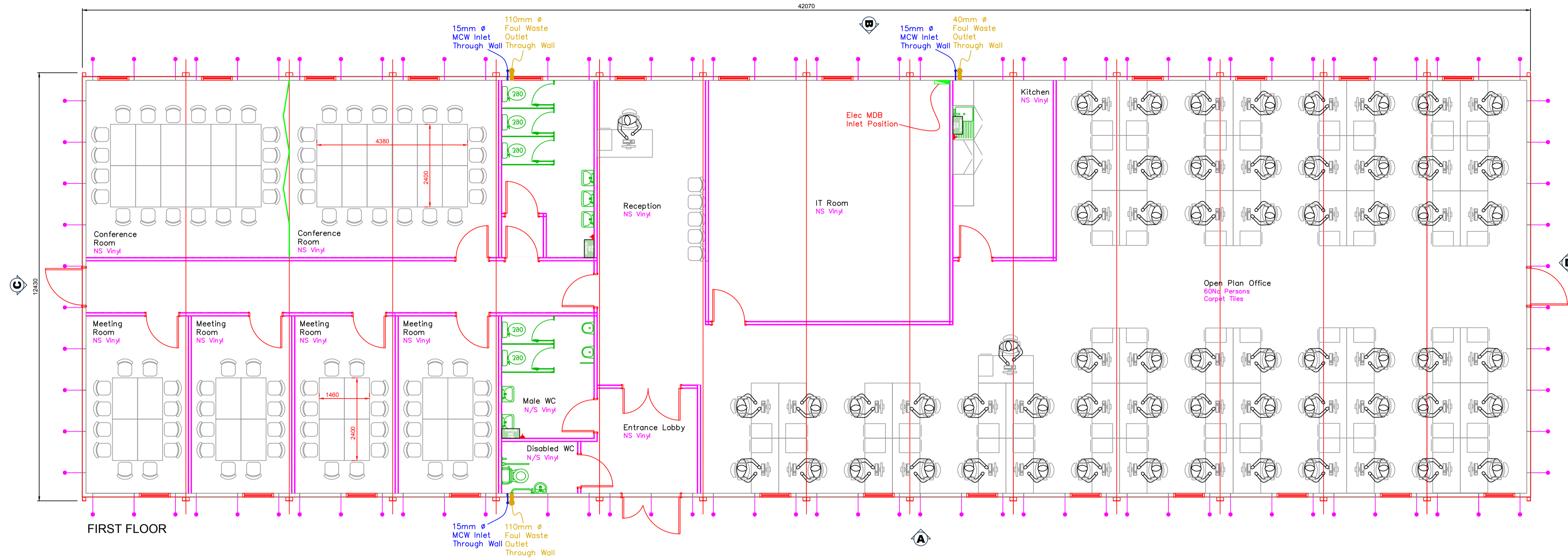
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|---------|-----------------------------|
| Client | Sirius Minerals. |
| Project | ITT Site Offices & Welfare. |
| Title | GA - Welfare. |

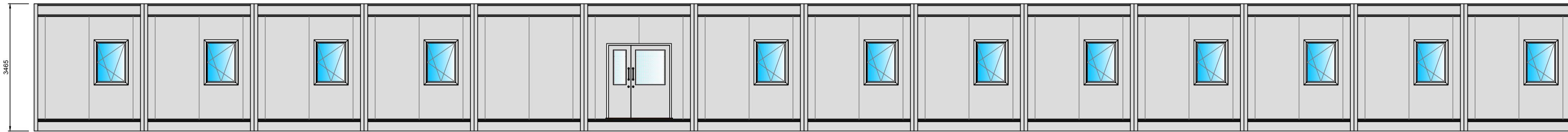
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| 1: 100 | MJM | 08/11/16 | |
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| | | | P5 |

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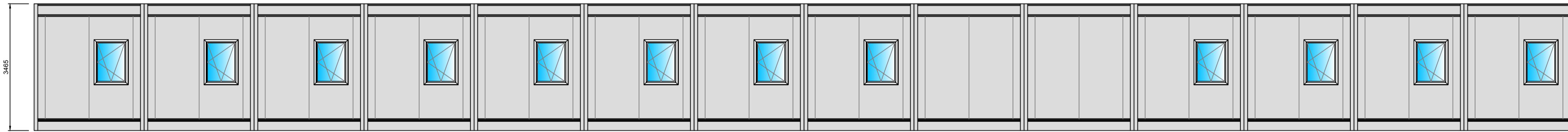
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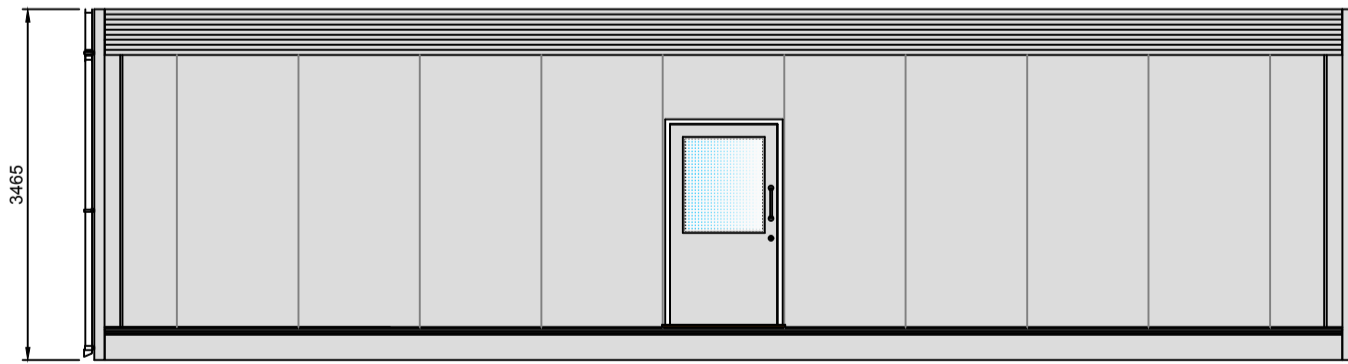
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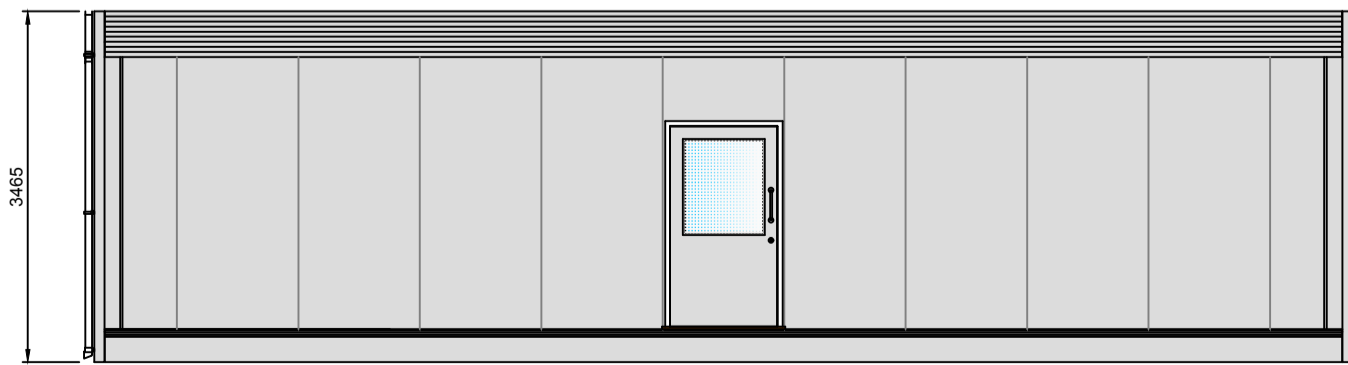
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

| Rev | By | Description | Date |
|-----|-----|---|----------|
| P4 | MJM | Elevations & Services Shown | 27/03/17 |
| P3 | MJM | Revised To Suit Clients Comments (17/03/17) | 20/03/17 |
| P2 | MJM | Staircases Shown | 14/03/17 |
| P1 | MJM | Revised To Suit Data Sheets | 07/03/17 |



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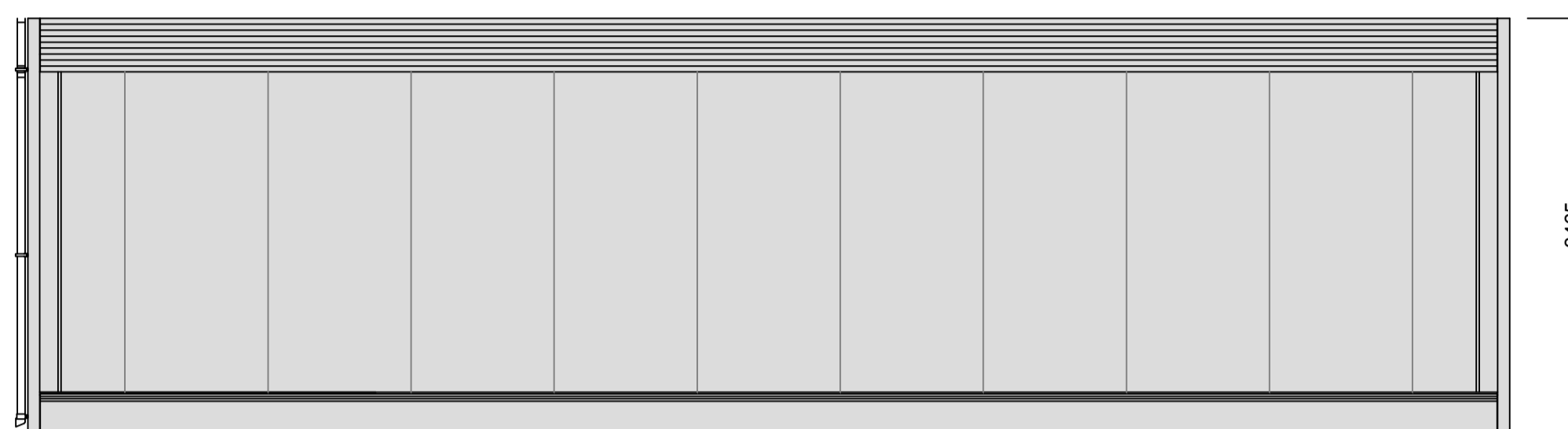
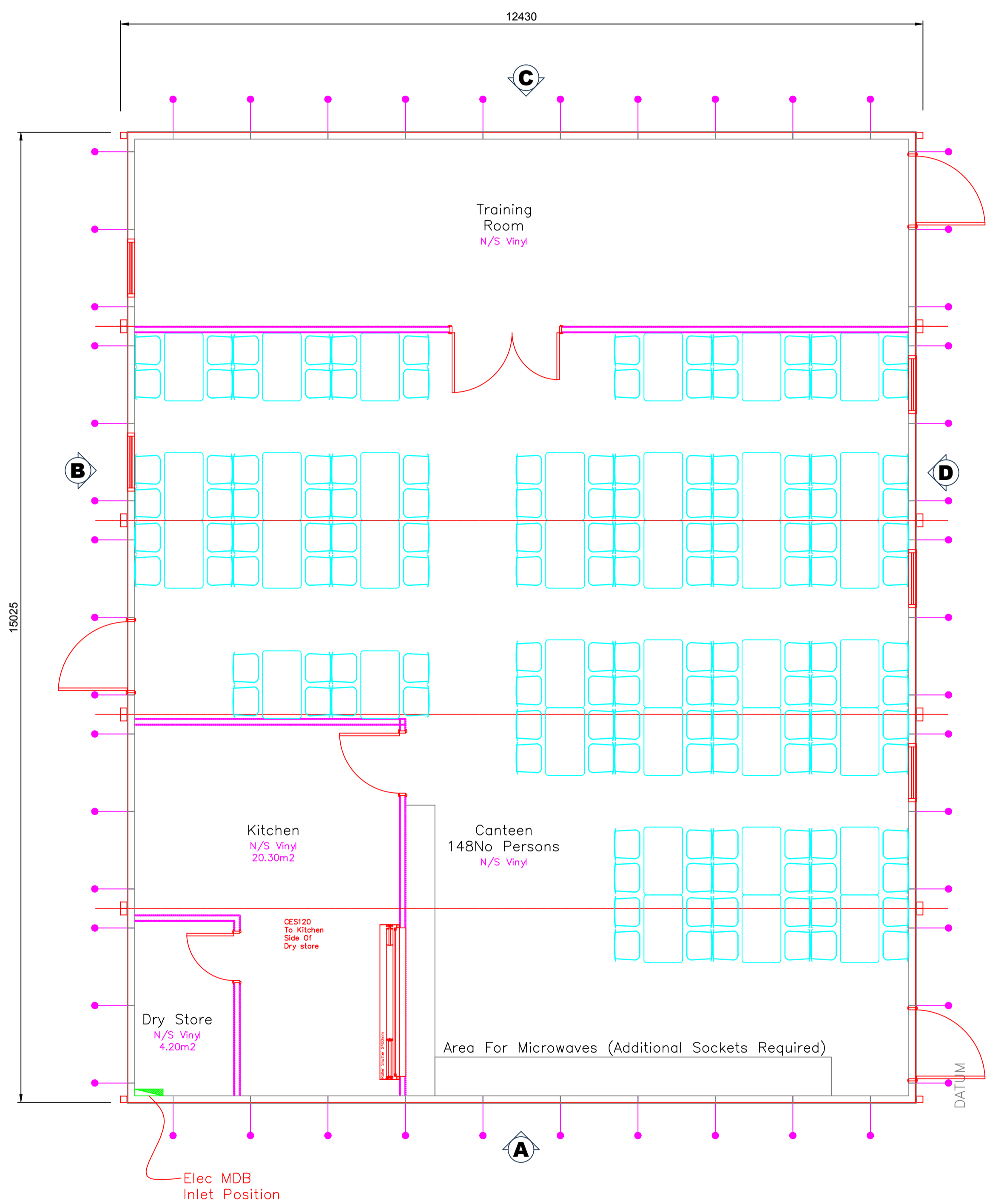


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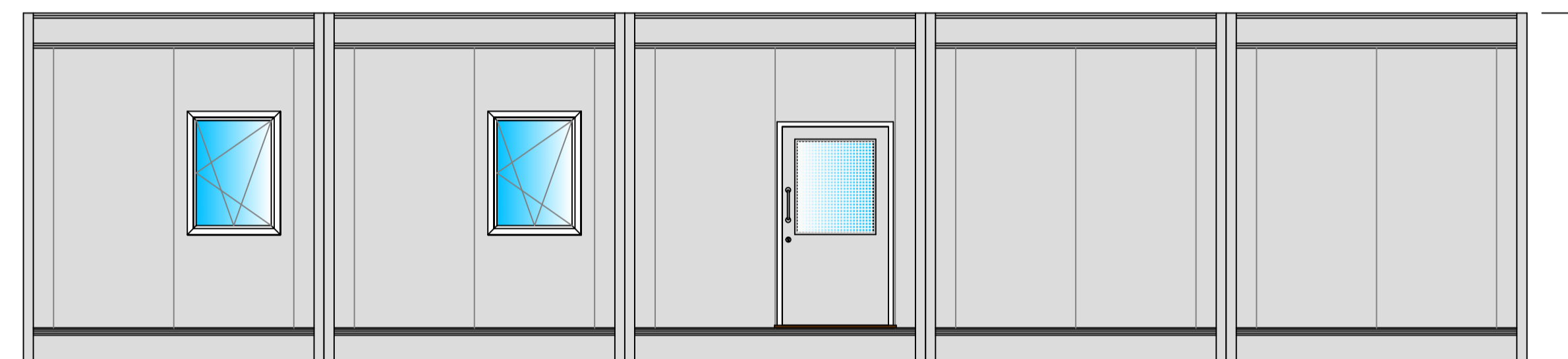
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|---------|-----------------------------|
| Client | Sirius Minerals. |
| Project | ITT Site Offices & Welfare. |
| Title | GA - Office Block. |

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| | | | P4 |

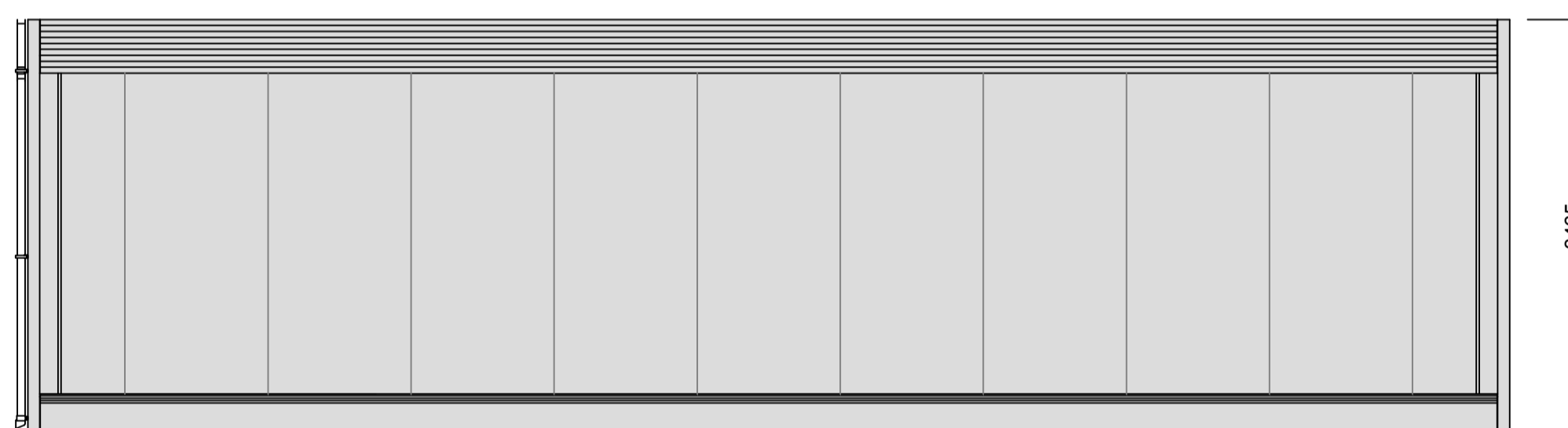
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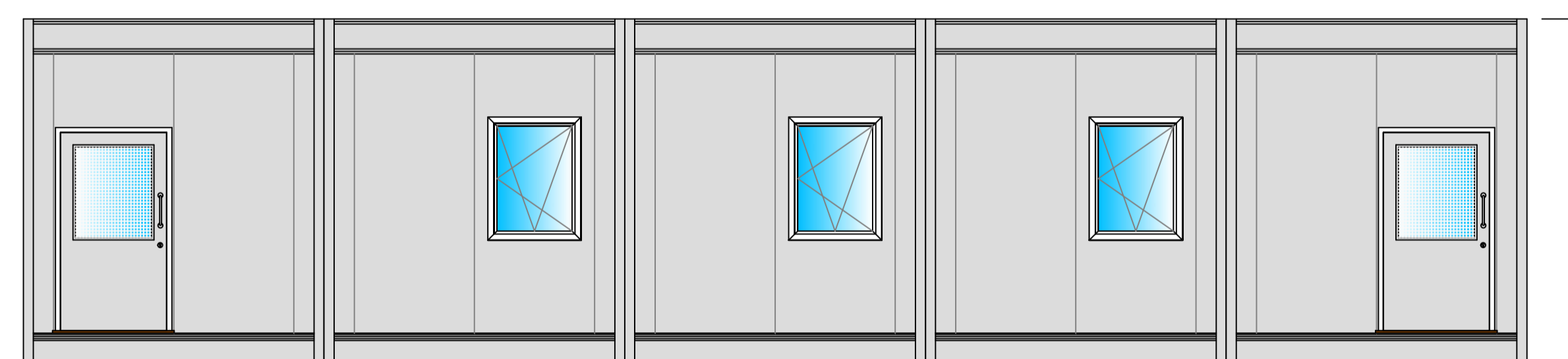
ELEVATION A



ELEVATION B



ELEVATION C



ELEVATION D

NOTES.

| Rev | By | Description | Date |
|-----|-----|---|----------|
| P4 | MJM | Elevations & Services Shown | 20/03/17 |
| P3 | MJM | Revised To Suit Clients Comments (17/03/17) | 20/03/17 |
| P2 | MJM | Bays Revised | 13/03/17 |
| P1 | MJM | Revised To Suit Data Sheets | 07/03/17 |



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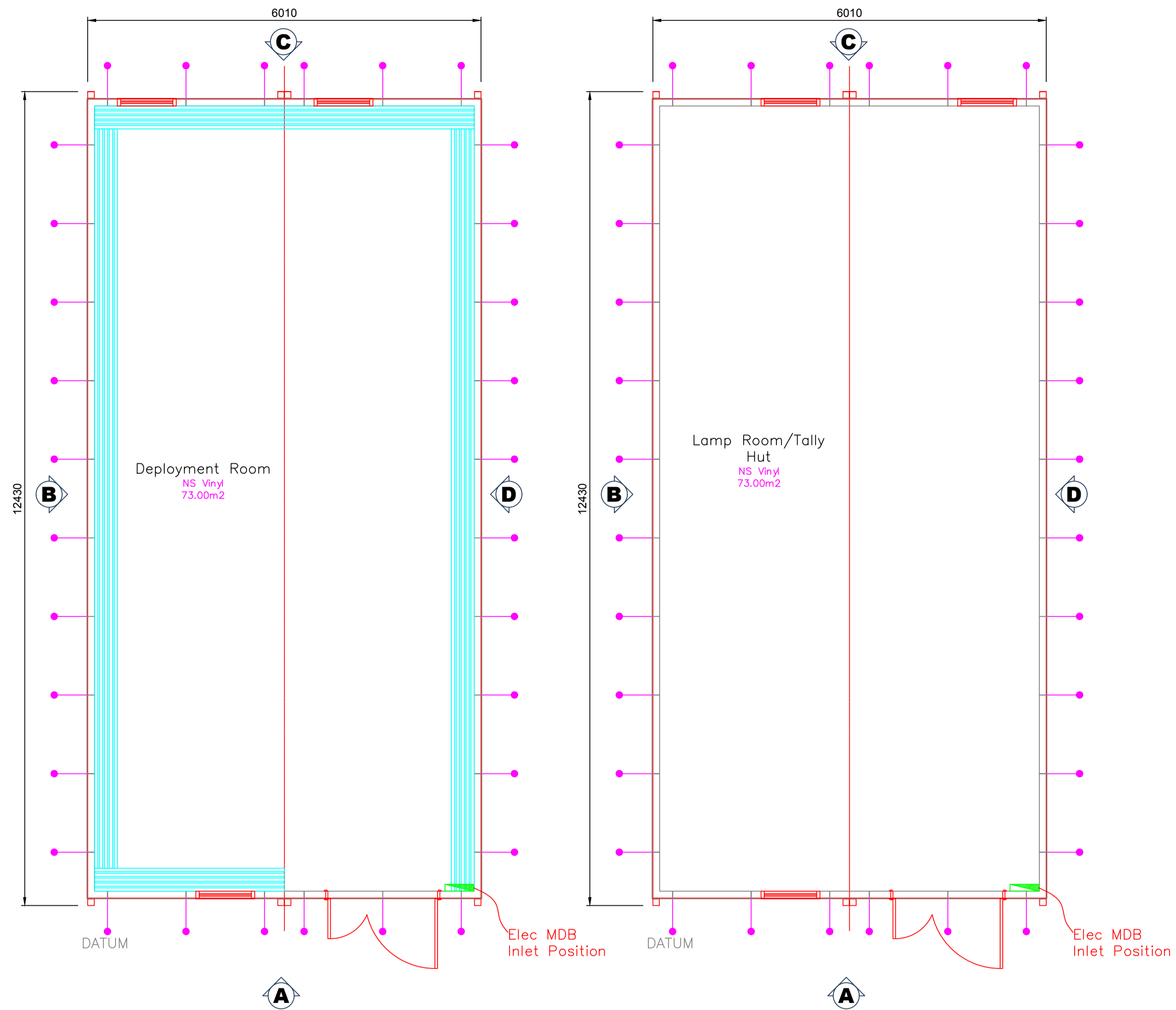
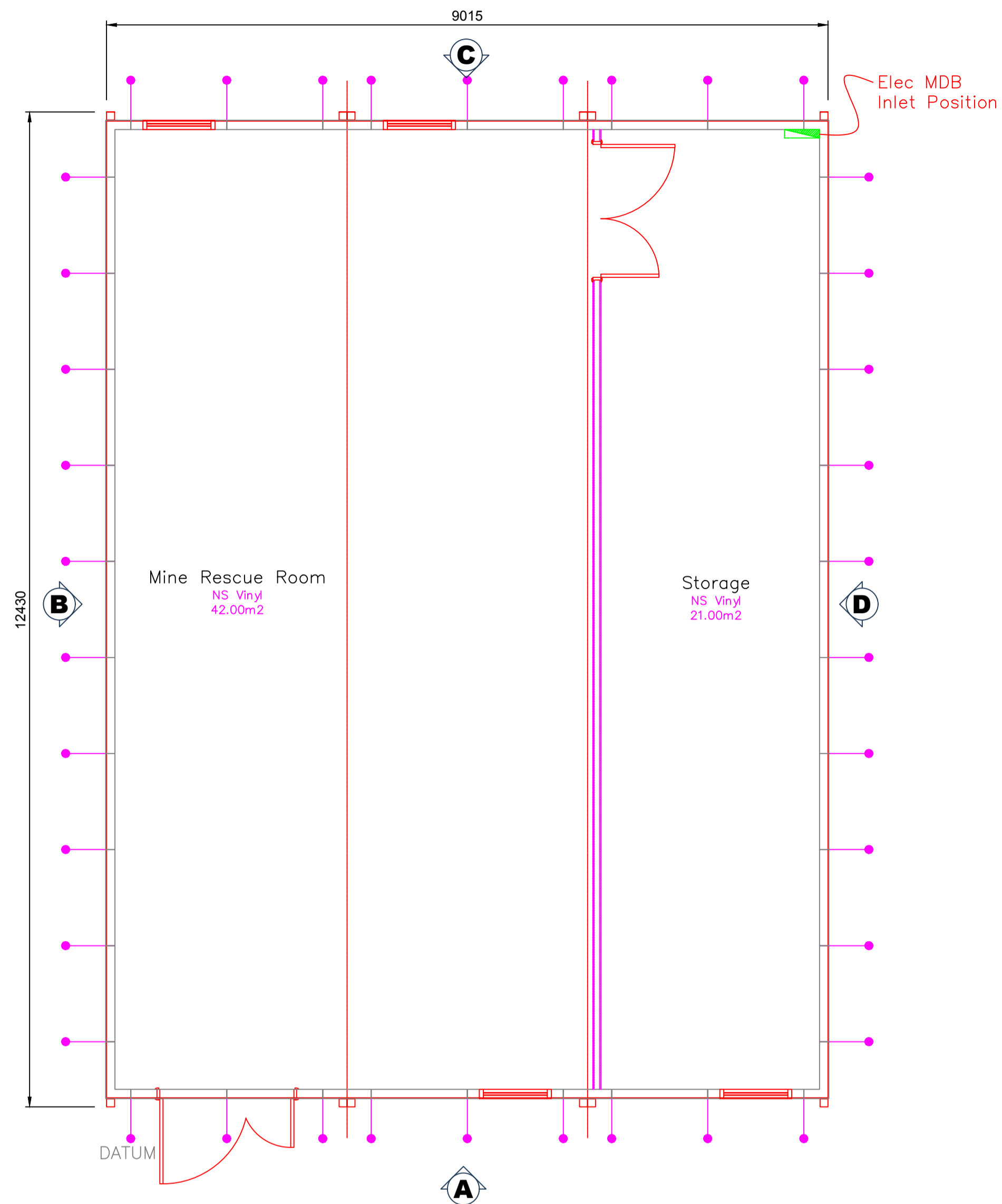


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|---------|-----------------------------|
| Client | Sirius Minerals. |
| Project | ITT Site Offices & Welfare. |
| Title | GA - Canteen. |

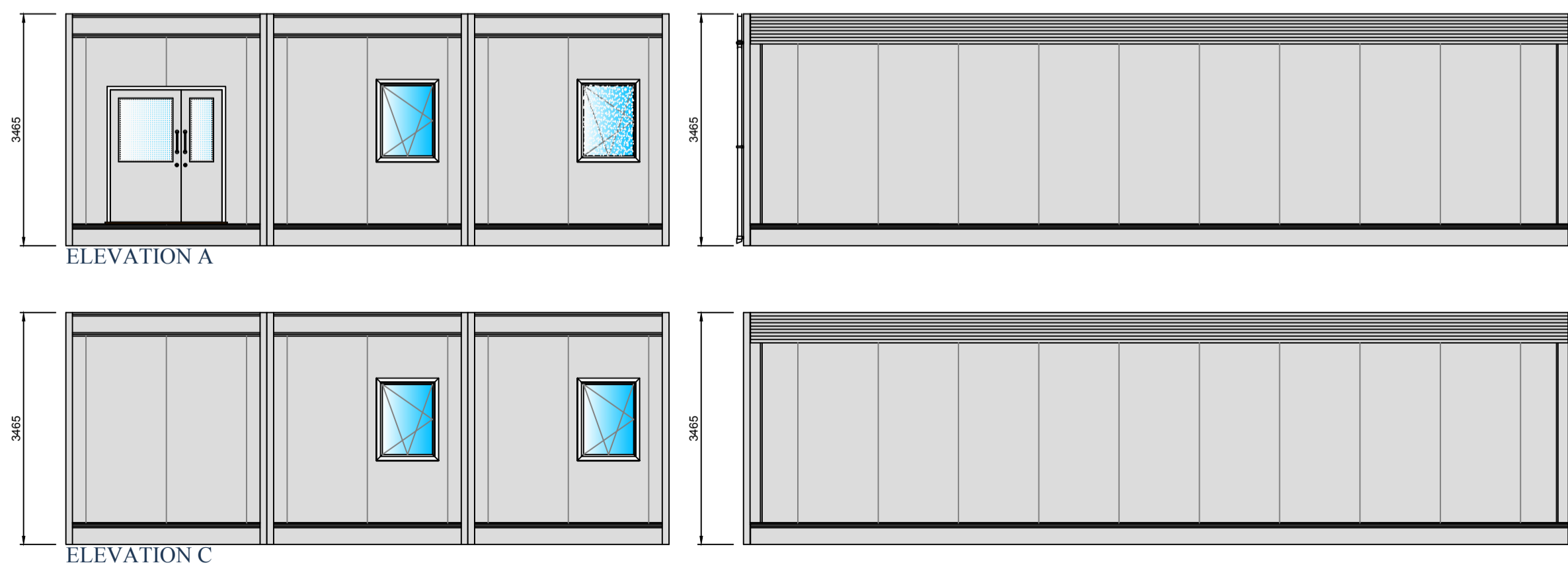
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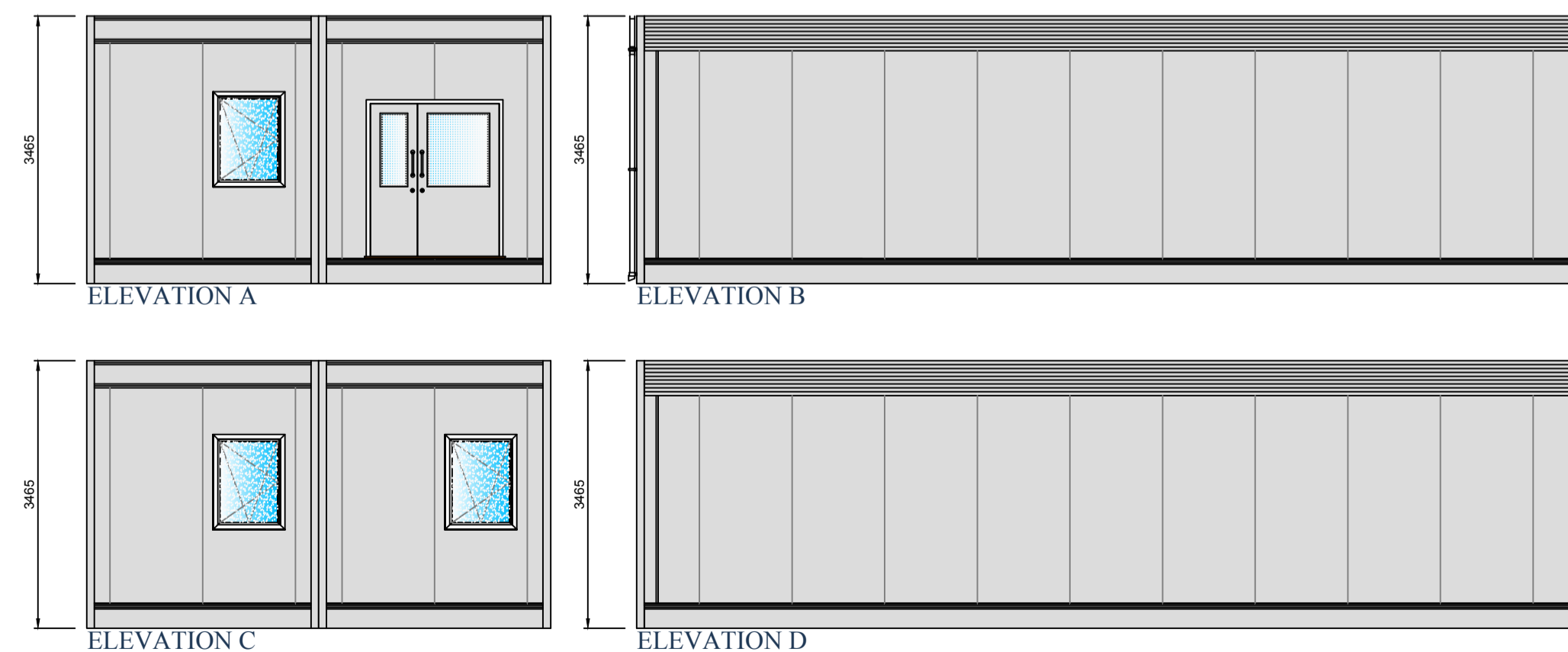


NOTES:

| Rev | By | Description | Date |
|-----|-----|--|----------|
| P3 | MJM | Building Revised to 12.2m | 29/03/17 |
| P2 | MJM | Elevations & Services Shown | 27/03/17 |
| P1 | MJM | Lamp m& Deployment Room Increased to 12m | 11/10/16 |
| P0 | MJM | First Issue | 11/10/16 |



Elevations For Rescue Room



Elevations For Deployment & Lamp Room



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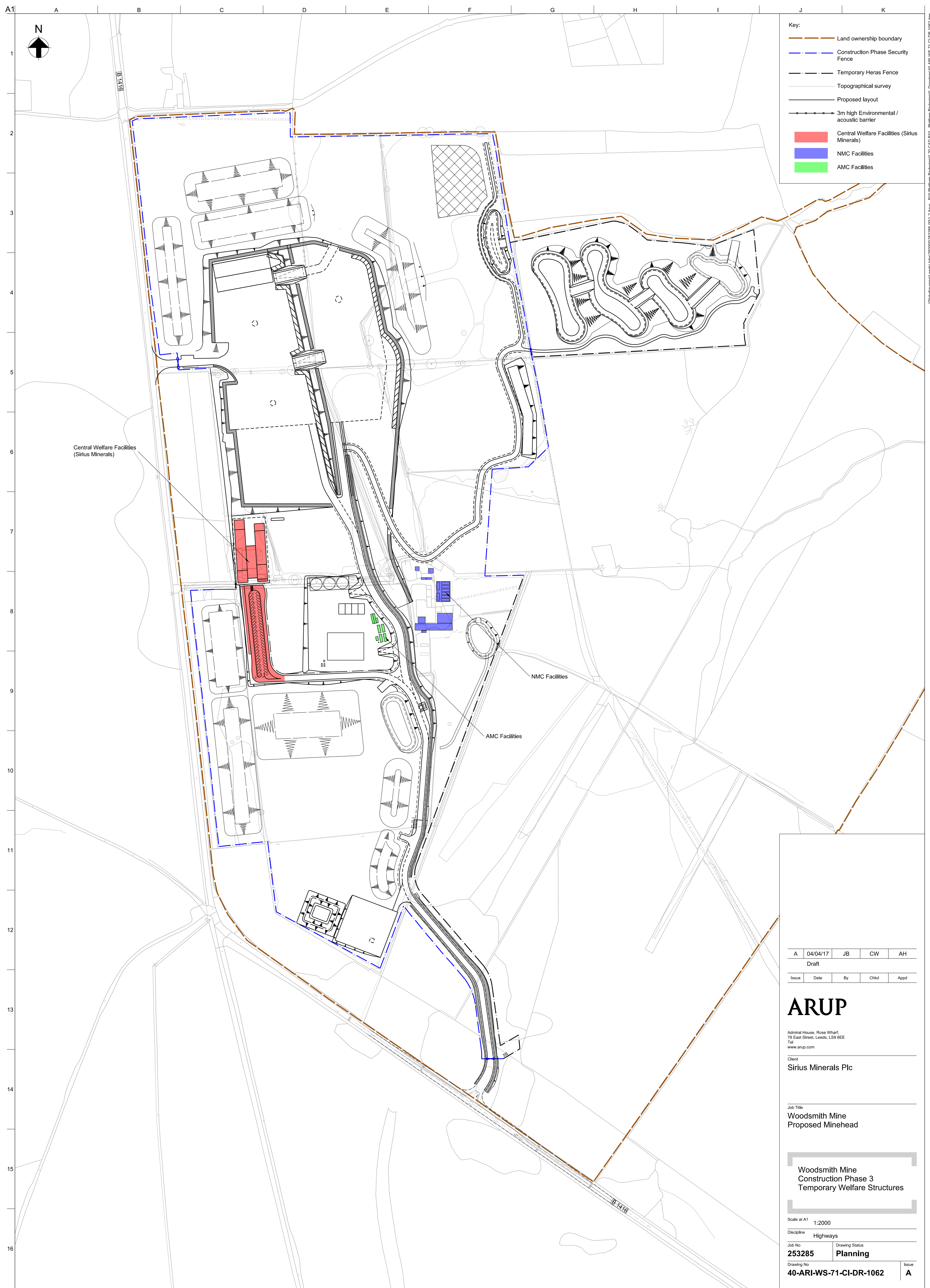
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| | |
|---------|---|
| Client | Sirius Minerals. |
| Project | ITT Site Offices & Welfare. |
| Title | Lamp Room - Deployment Centre - Mine Rescue |

| | | | |
|---------------|---------------------------|----------|---------|
| Scale (at A1) | Drawn | Date: | Checked |
| 1 : 50/75 | MJM | 10/11/16 | |
| Drawing No. | 17343-PIW-B1-ZZ-DR-A-0006 | | Rev |
| | | | P3 |



Key:

- Land ownership boundary
- Construction Phase Security Fence
- Temporary Heras Fence
- Topographical survey
- Proposed layout
- 3m high Environmental / acoustic barrier
- Central Welfare Facilities (Sirius Minerals)
- NMC Facilities
- AMC Facilities

Central Welfare Facilities
(Sirius Minerals)

NMC Facilities

AMC Facilities

| | | | | |
|-------|----------|----|------|------|
| A | 04/04/17 | JB | CW | AH |
| Draft | | | | |
| Issue | Date | By | Chkd | Appd |

ARUP

Admiral House, Rose Wharf,
70 East Street, Leeds, LS9 9EE
Tel
www.arup.com

Client
Sirius Minerals Plc

Job Title
**Woodsmith Mine
Proposed Minehead**

**Woodsmith Mine
Construction Phase 3
Temporary Welfare Structures**

Scale at A1 1:2000

Discipline **Highways**

| | |
|--|-----------------------------------|
| Job No 253285 | Drawing Status Planning |
| Drawing No 40-ARI-WS-71-CI-DR-1062 | Issue A |