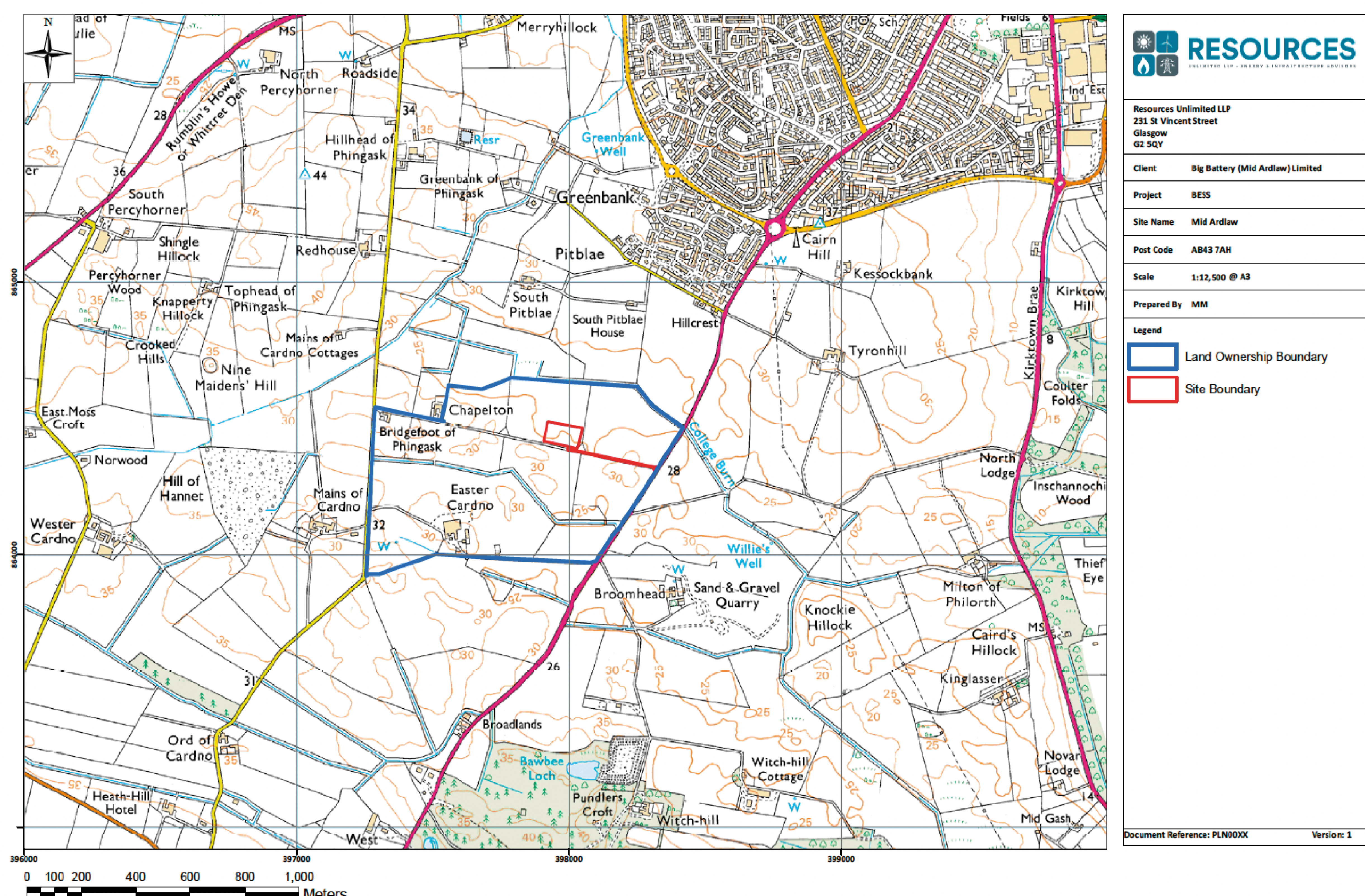


SUSTAINABILITY

UNLIMITED LLP - ENERGY & INFRASTRUCTURE ADVISORS

MID ARDLAW BATTERY ENERGY STORAGE SYSTEM (BESS)

LOCATION



LOCATION PLAN OF MID ARDLAW

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- The location is approximately 2.95 km to the main Fraserburgh Grid 33KV **Busbar Supply Point**.
- There is available **grid capacity** at this location.
- There are **very few suitable locations** in Scotland such as this
- This location **minimises the amount of connection infrastructure required** which is better for the environment and means lower embodied carbon emissions.
- The application site is located on land at Easter Cardno and adjacent to the A981, **to the south-west of Fraserburgh**.
- The proposed site is **approximately 1 hectare (the size of a football pitch)** and currently consists of low quality agricultural land.



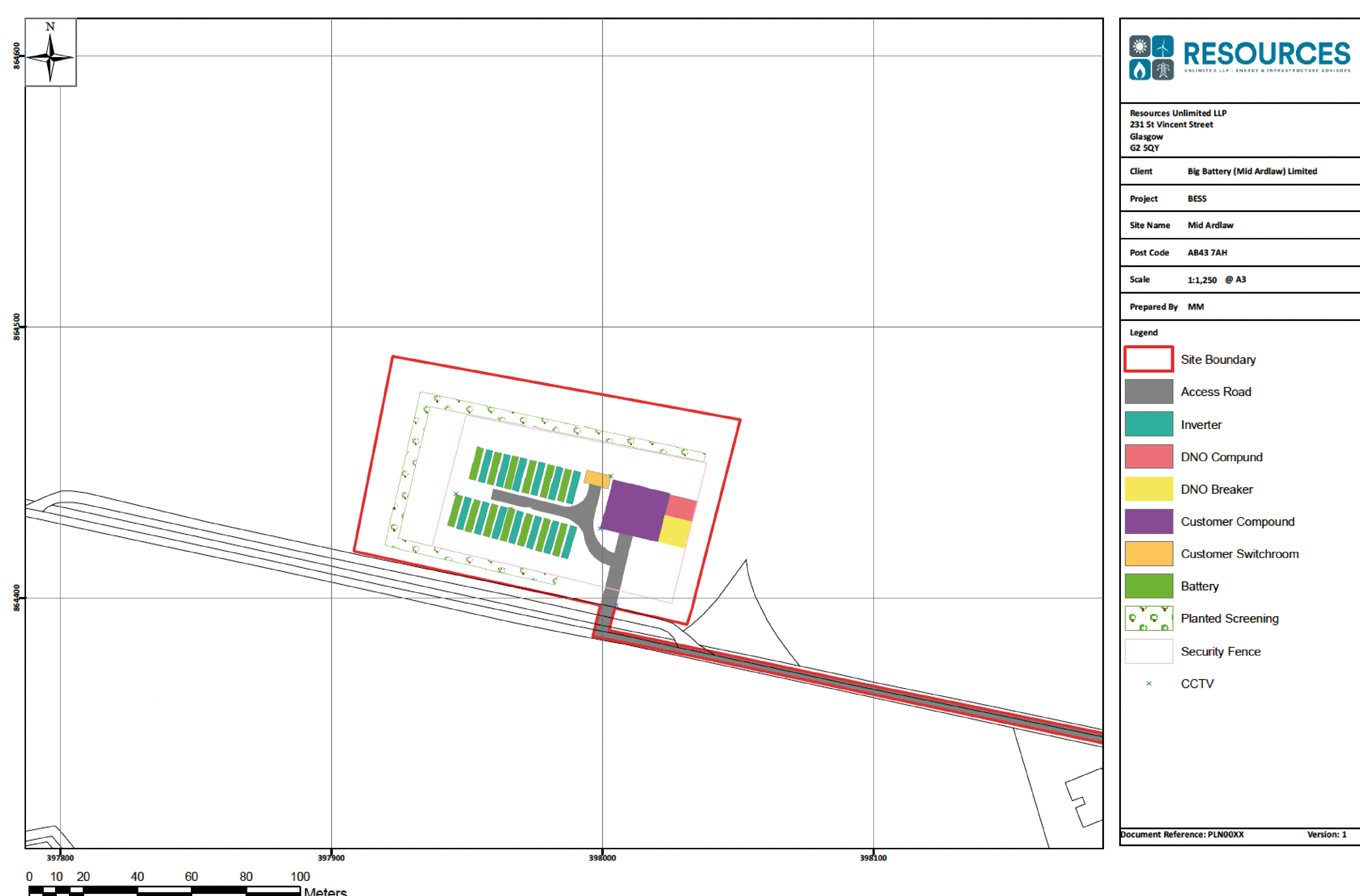
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Scottish
Government

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MID ARDLAW BATTERY ENERGY STORAGE SYSTEM (BESS)

SITE LAYOUT



SITE PLAN OF MID ARDLAW

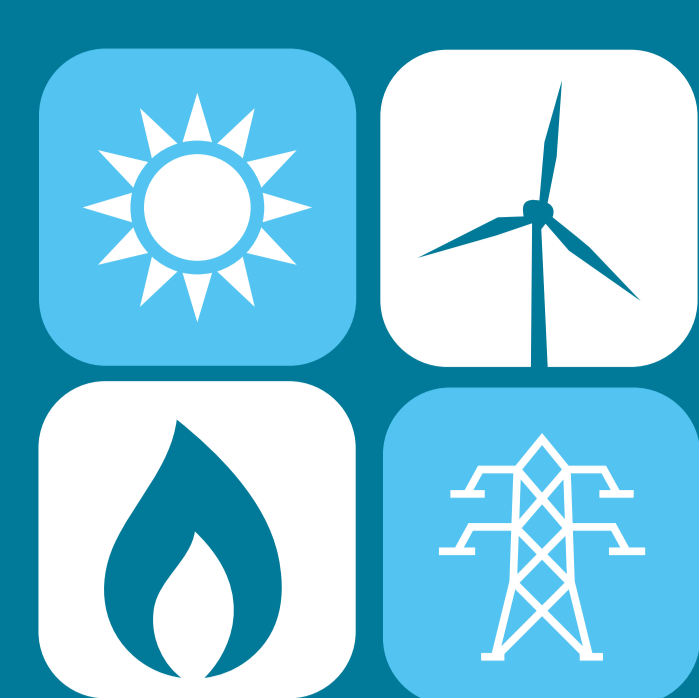
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- **Containerised** battery storage facility (13 x containers) with up to 49.4 MW of energy storage.
- Circa 6-meter-long containers at a height of approx. 2.5 meters.
- **An access track, electricity meter building, fences, and containers housing batteries** and related equipment would make up the development.
- **Stores extra grid generation in reserve** - returns electricity to the grid as necessary. Allows more green energy to be added to grid mix.
- This **balances** the grid's supply and demand.
- The **existing hedgerows and trees will be retained** and a belt of new planting of native trees is proposed along the roadside to screen the development.



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MID ARDLAW BATTERY ENERGY STORAGE SYSTEM (BESS)

WELCOME



WHO IS THE APPLICANT?

- **Wholly Scottish Owned** Company dedicated to Energy Storage Development
- Based in **Glasgow**
- **Over 12 years experience** in the sector
- **Delivering over 1GW** of Energy Storage for Scotland

WHY IS BATTERY STORAGE IMPORTANT

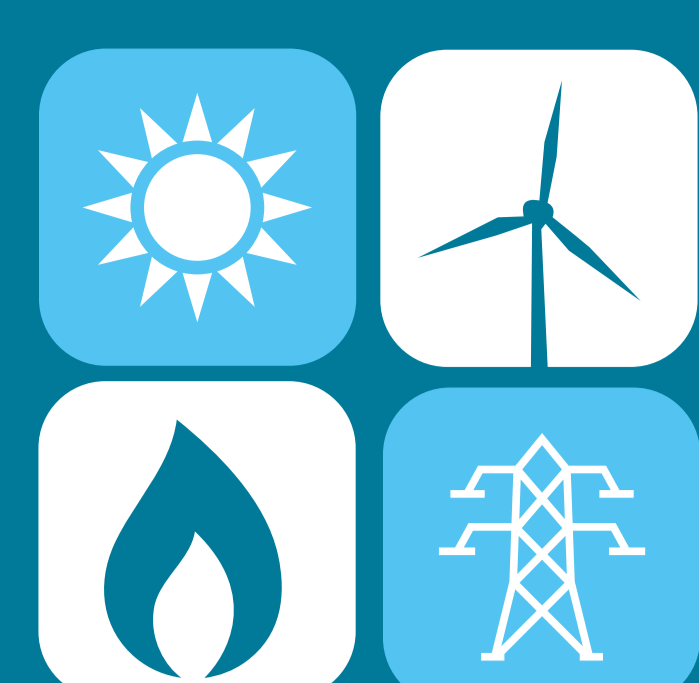
- Scotland is aiming to **achieve net-zero by 2045**.
- **Intermittent renewable energy** generation means we still have to rely on fossil fuel generation.
- **Battery Projects** let us store excess renewables energy until it is needed – plugging the gap.
- **By 2050**, according to National Grid ESO, we may require up to 40 GW of energy storage.
- New energy storage capacity is encouraged by the **Scottish Energy Strategy 2018** in order to hasten the adoption of storage innovation and deployment across Scotland.



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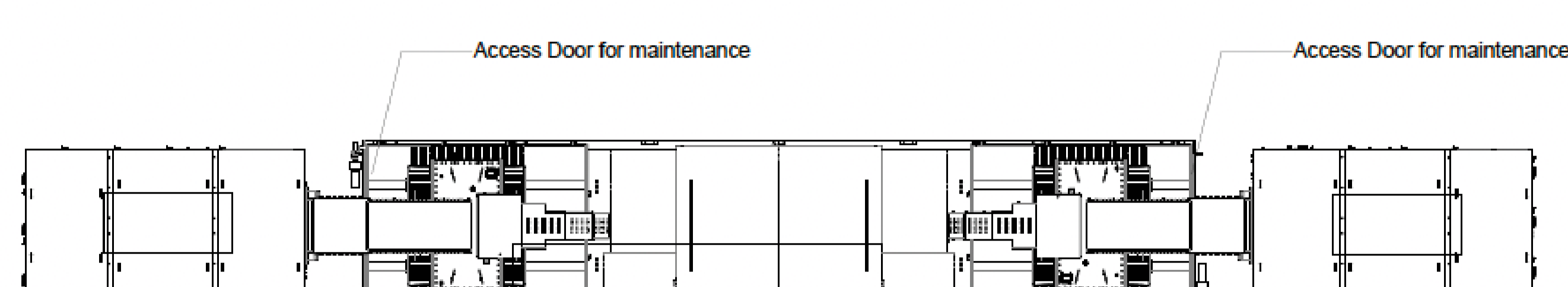
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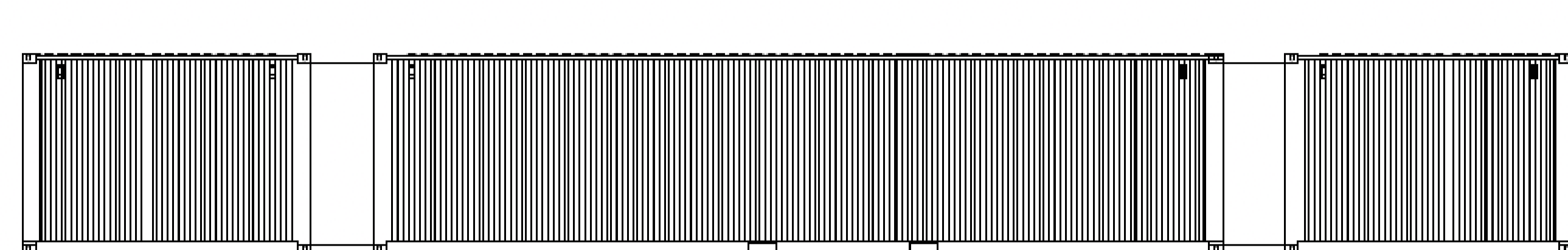


MID ARDLAW BATTERY ENERGY STORAGE SYSTEM (BESS)

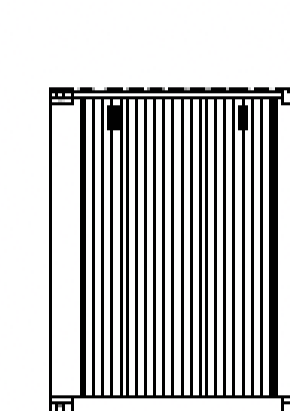
SITE ELEVATIONS



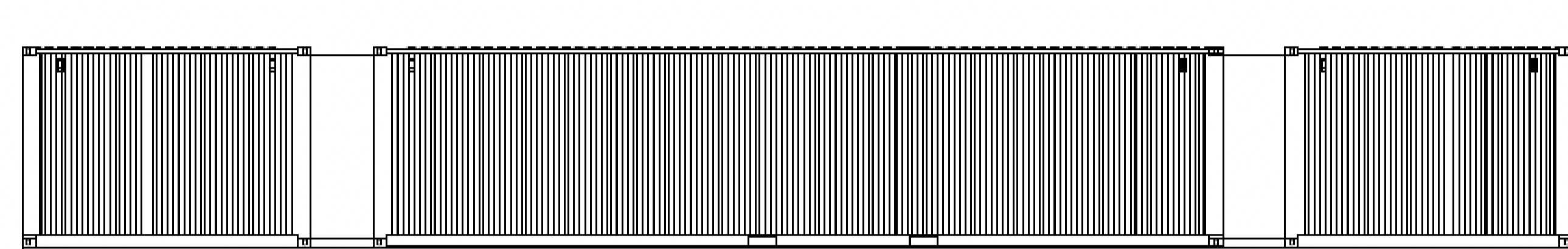
Switch Gear Plan 1:50



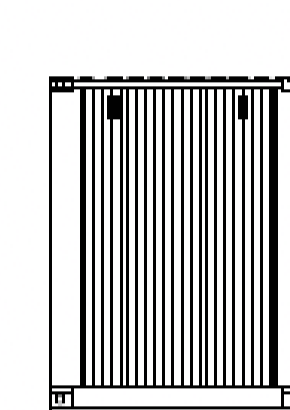
Switch Gear Side Elevation 1:50



Switch Front Elevation 1:50



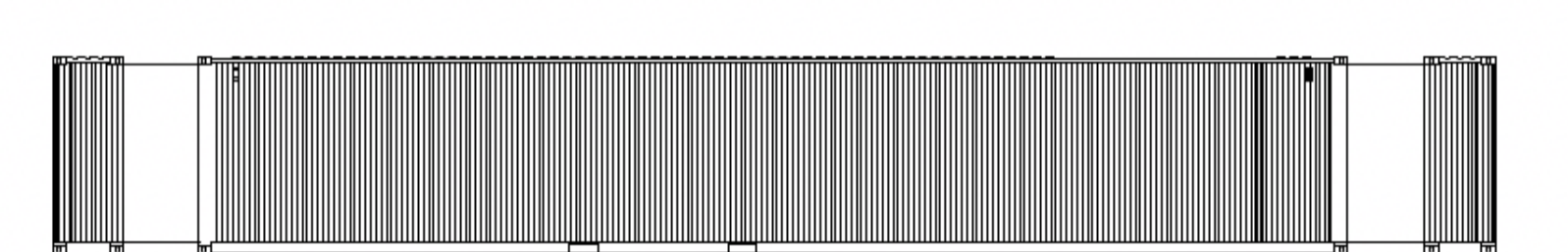
Switch Gear Side Elevation 1:50



Switch Rear Elevation 1:50



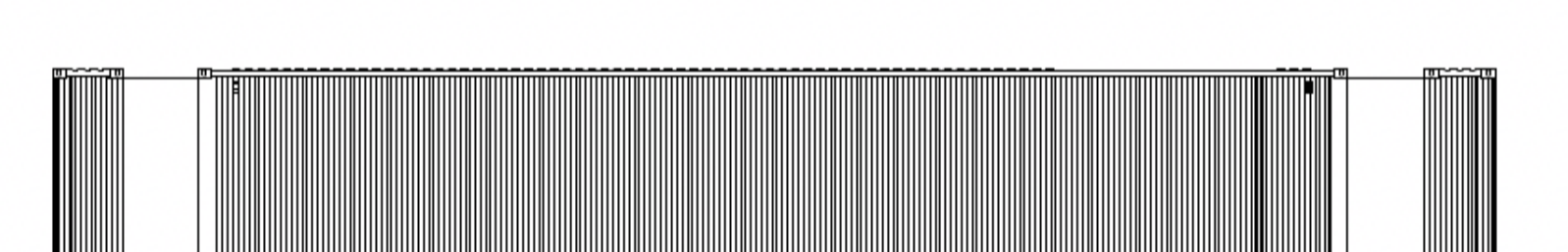
Battery Container Plan 1:50



Battery Container Side Elevation 1:50



Battery Front Side Elevation 1:50



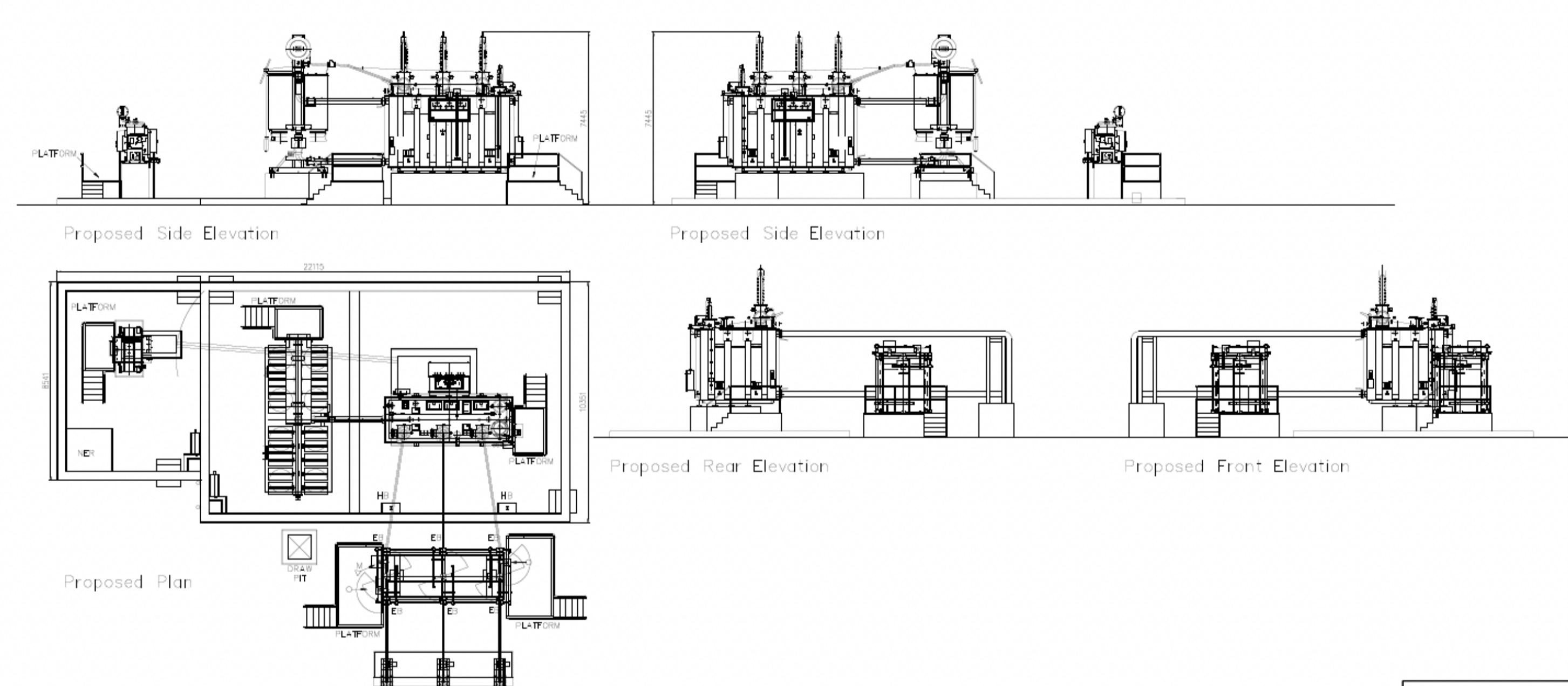
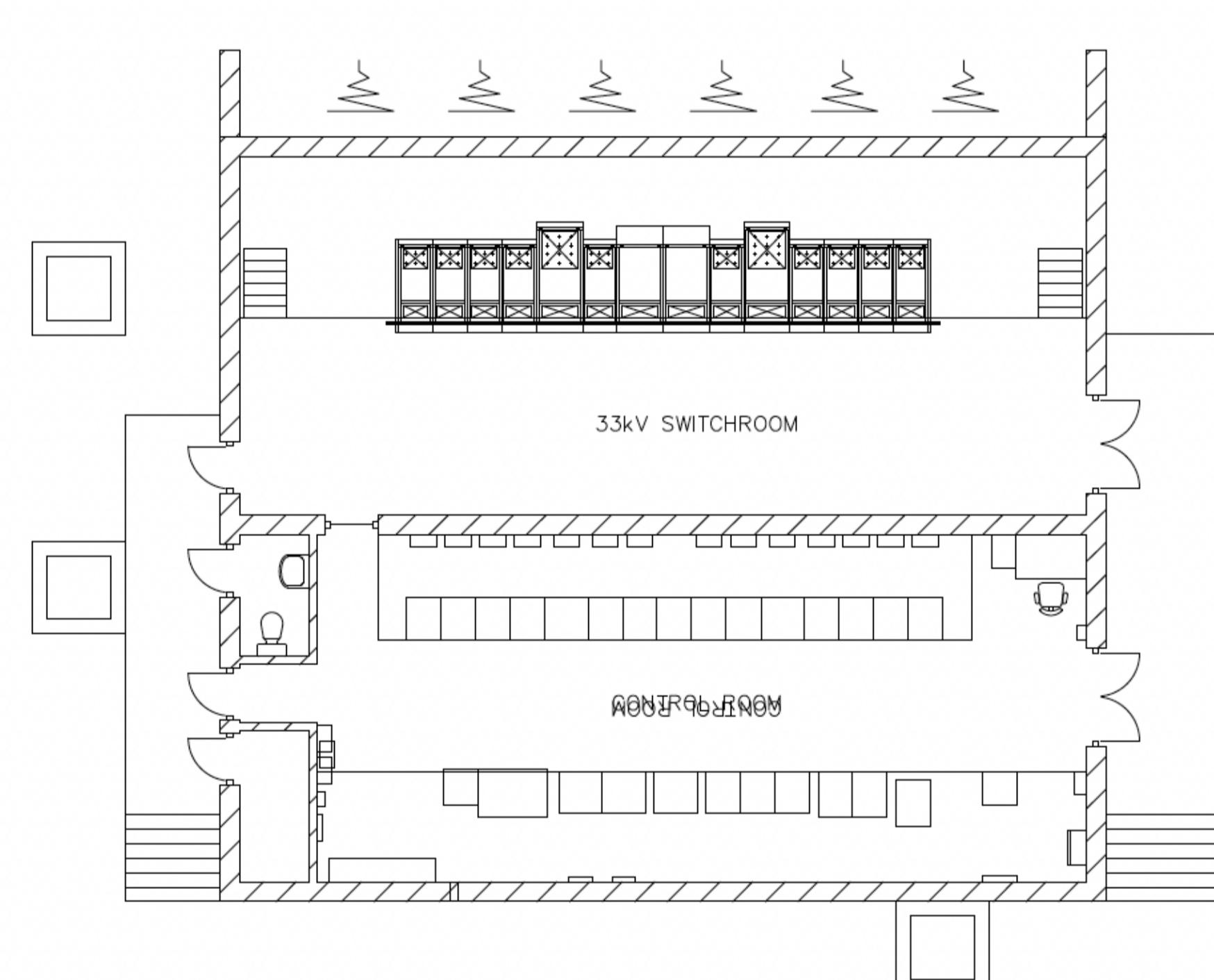
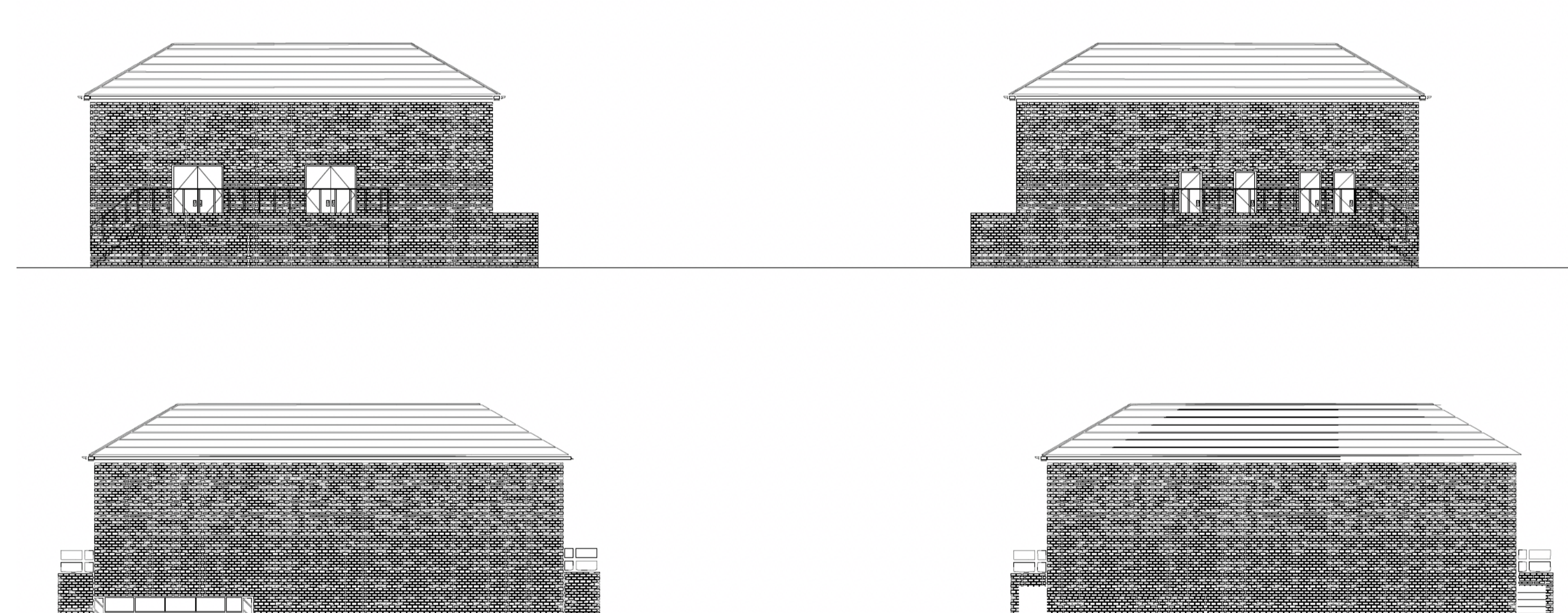
Battery Container Side Elevation 1:50



Battery Rear Side Elevation 1:50

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