

Project Red Electrical Infrastructure

Stage 4

SEAN MYERS & NIALL VOSE



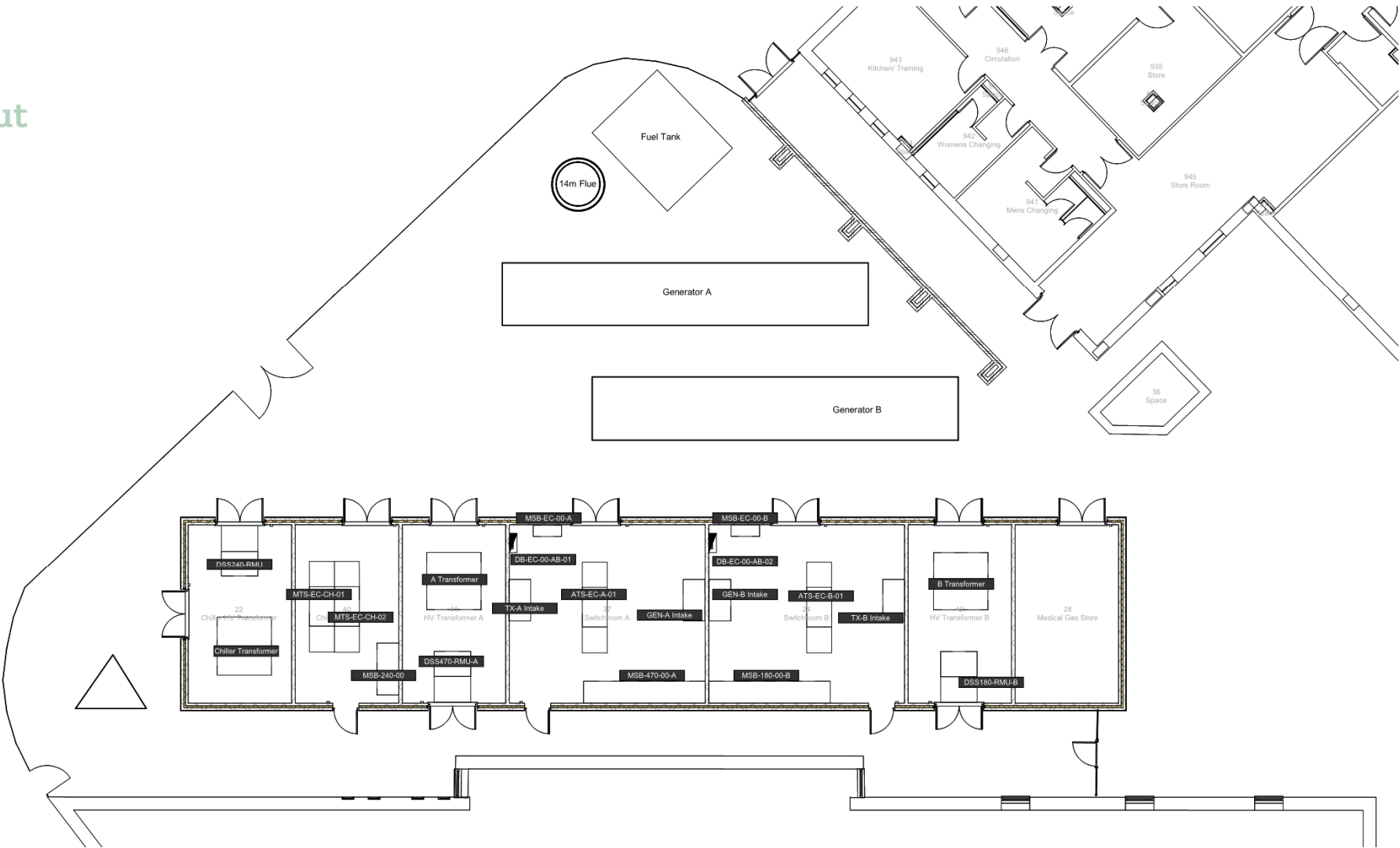
Project Recap

- Project RED to be supplied electrically from new infrastructure compound
- Compound to house purpose built substations and switch rooms
- 2 Generators and associated flue situated within the compound to serve as electrical back up
- Existing substation within current Welcome building car park to be removed

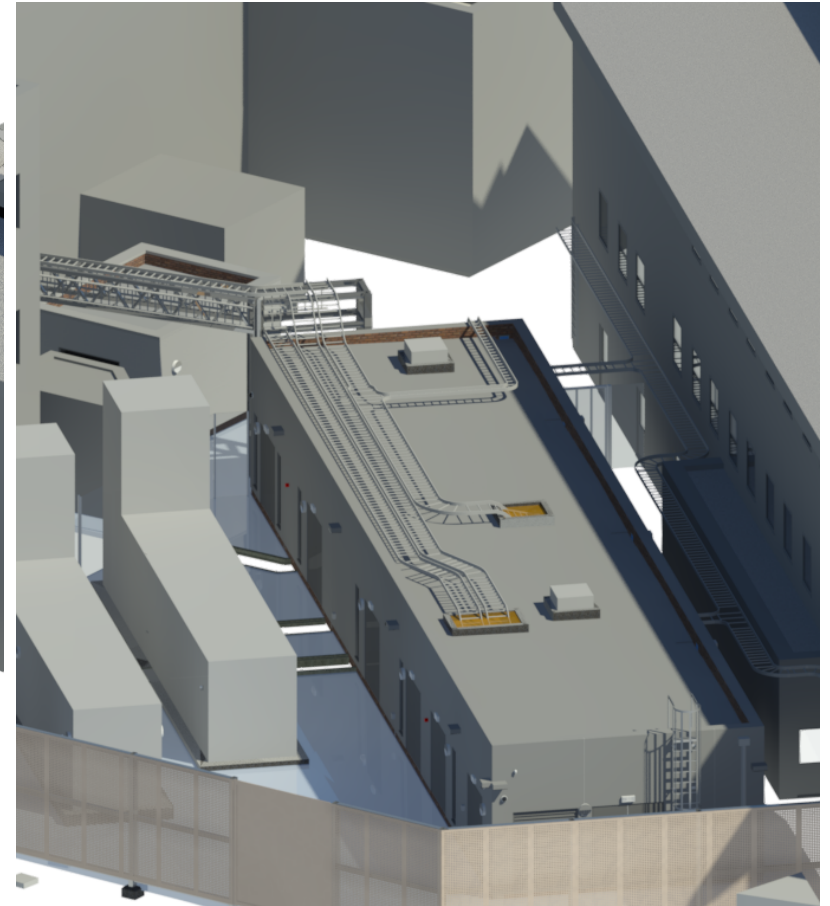
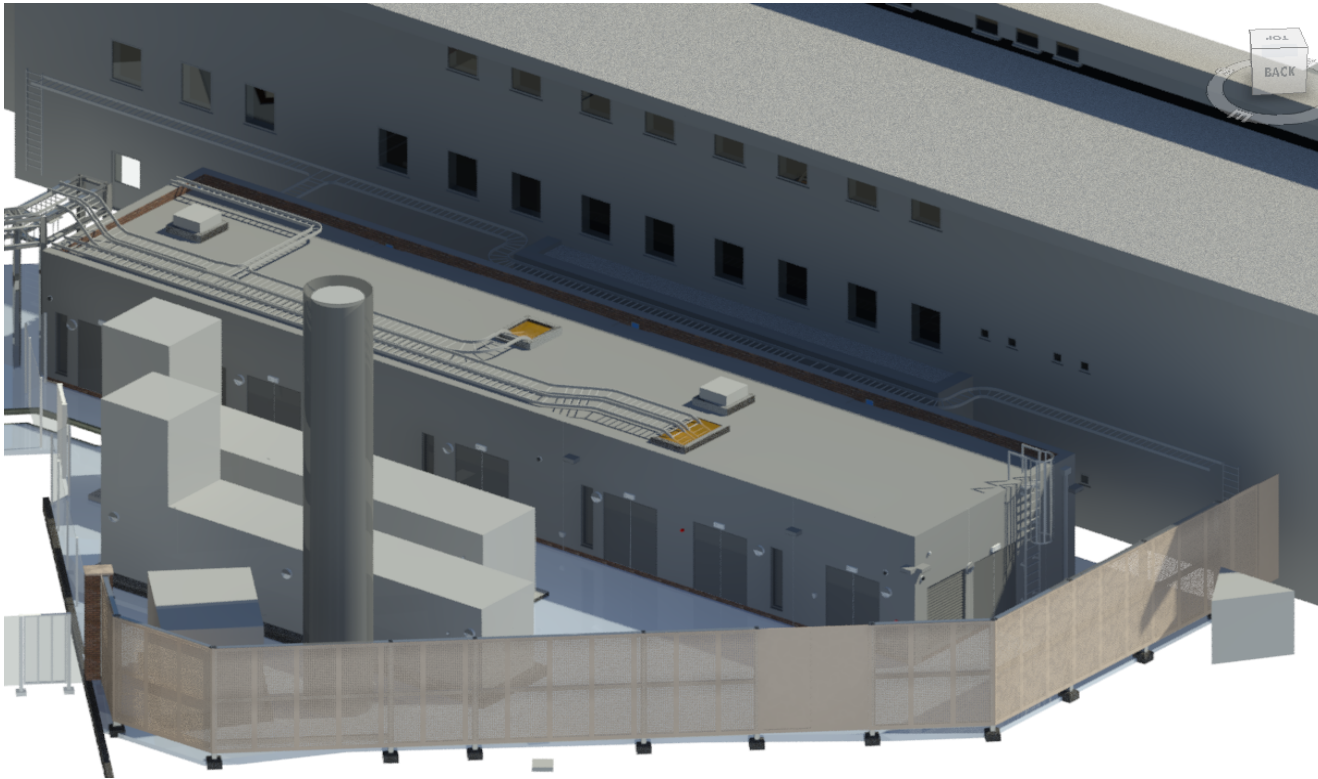
Updated brief since we last met

- Trust Electrical Advisor comments incorporated
- Removal of HV route to external of Welcome building
- Clarification on Project RED A cables route – Agreed route to be across roof. B cables to remain within basement
- Medical Gas Store taken out of scheme, now to sit within Project RED scheme
- Electricity North West have reviewed and aided the design

Previous Layout





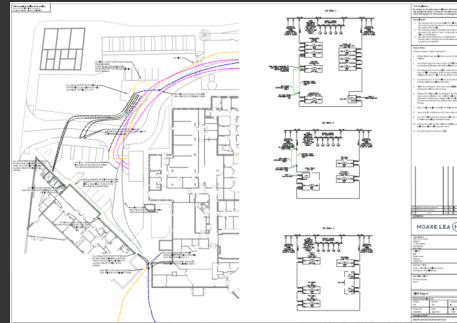


Step Changes

Step by step drawings to assist in changeover of supplies and isolations required

Consideration given to existing supplies and the reduction in disruption i.e. Welcome Building

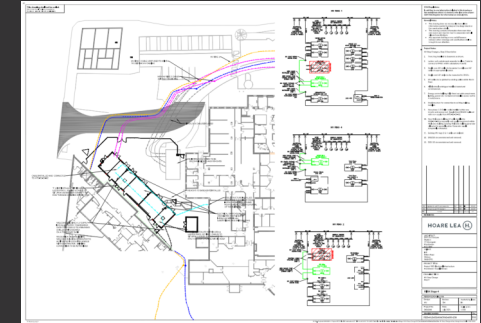
Comments from Trust Electrical Advisor and ENW considered and incorporated



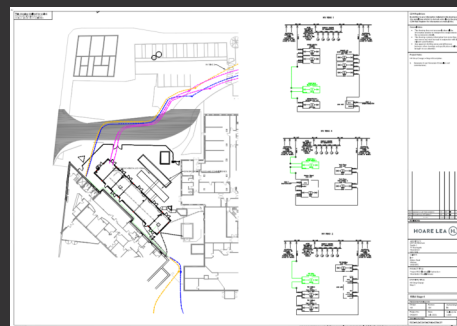
1 – Divert HV cables and buried services within car park



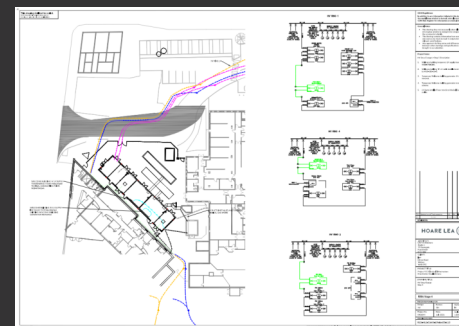
2 – Substructure works and building constructed



3 – Chiller substation (HV Ring 2) made live. Chiller connection re-established and temp connection to Welcome building



4 – Existing substations removed. Substations and generators installed and commissioned



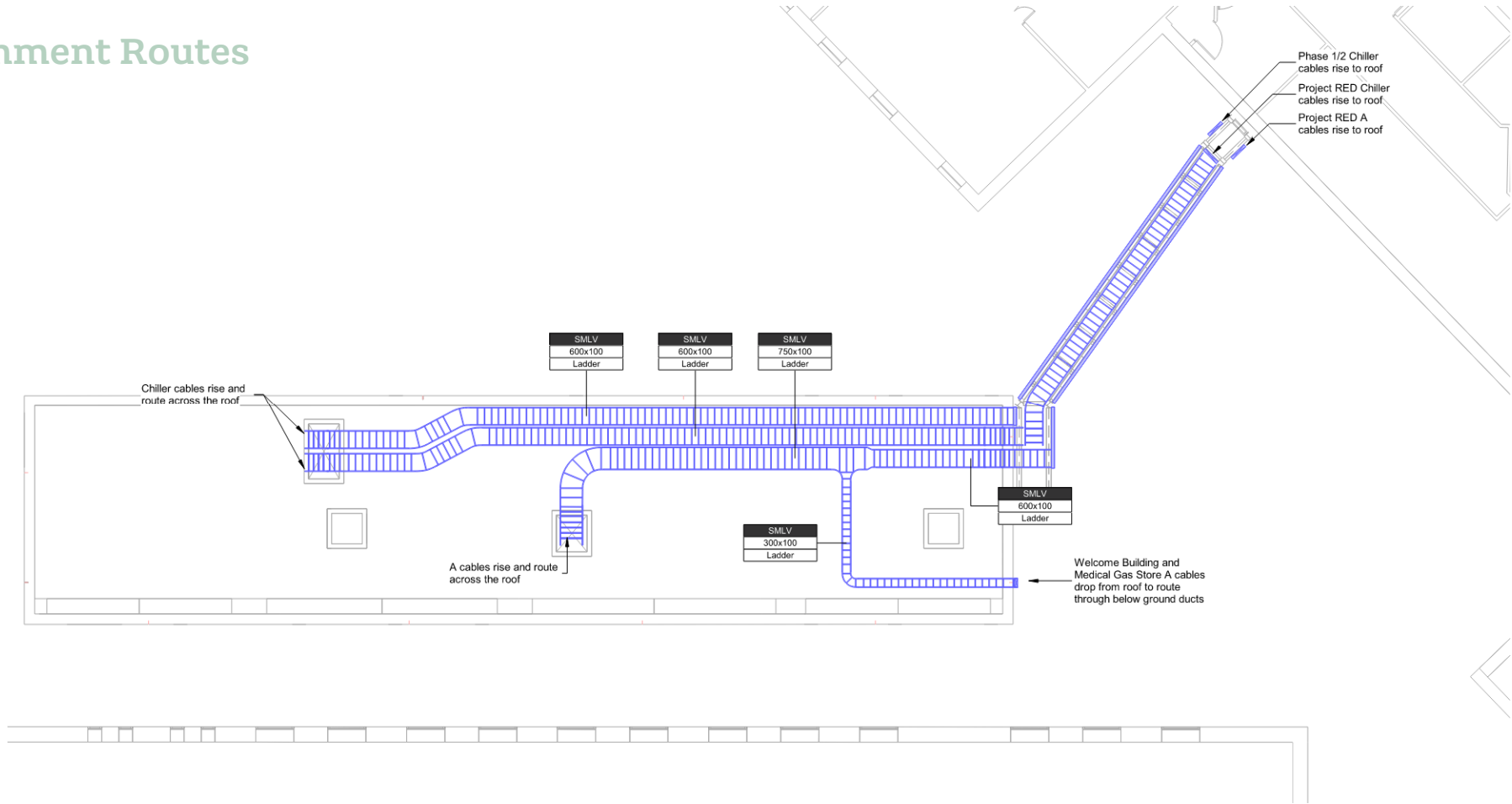
5 – Welcome building moved to permanent supply



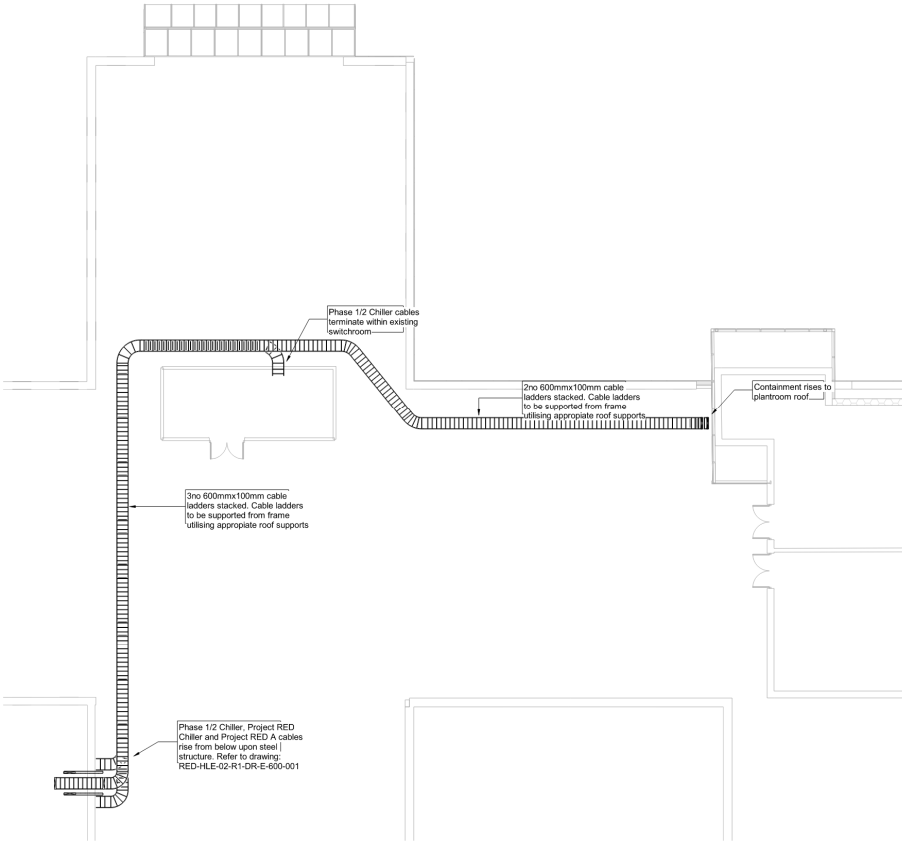
6 – Project RED supplies installed



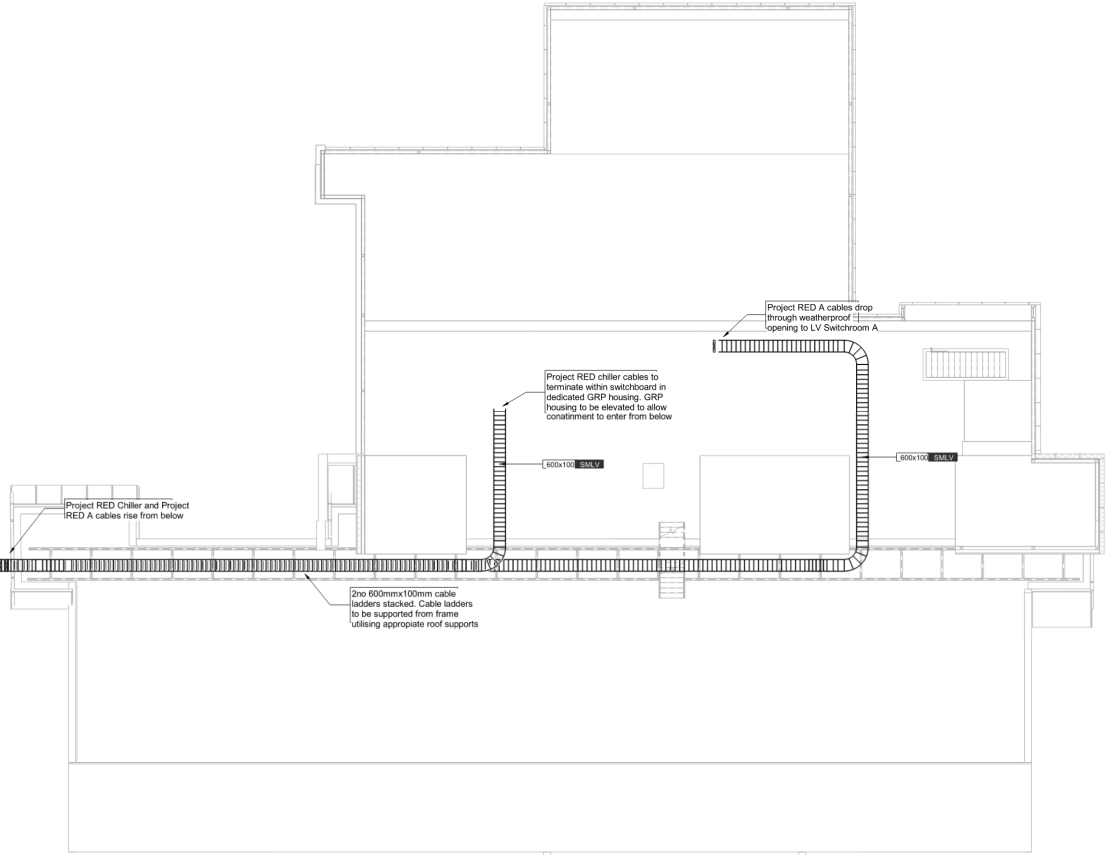
Containment Routes



A Route – Over Roof

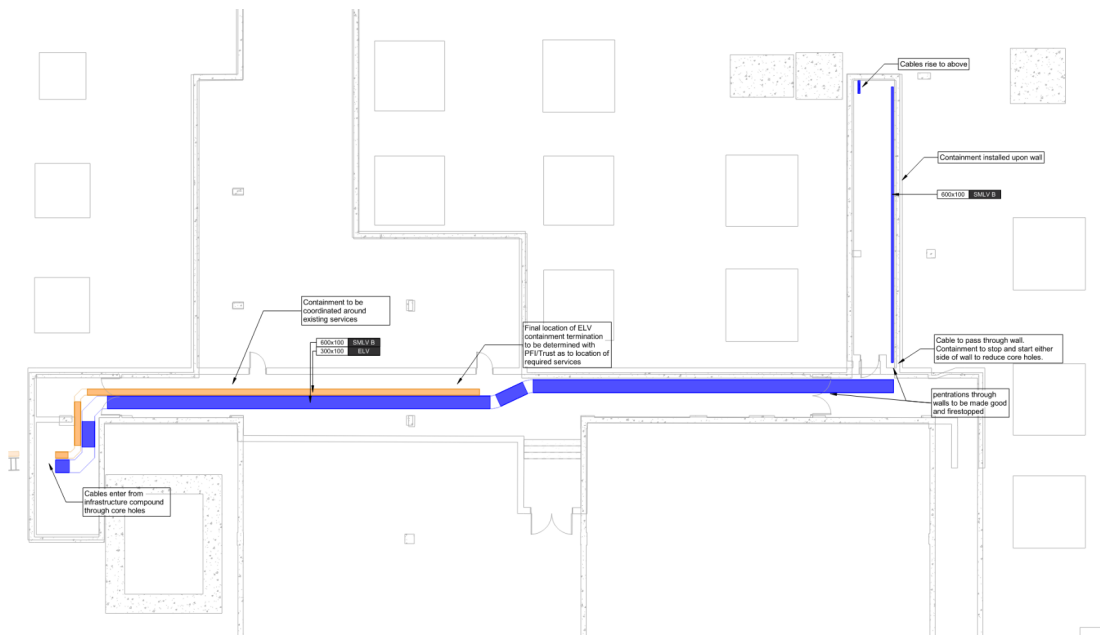


Roof

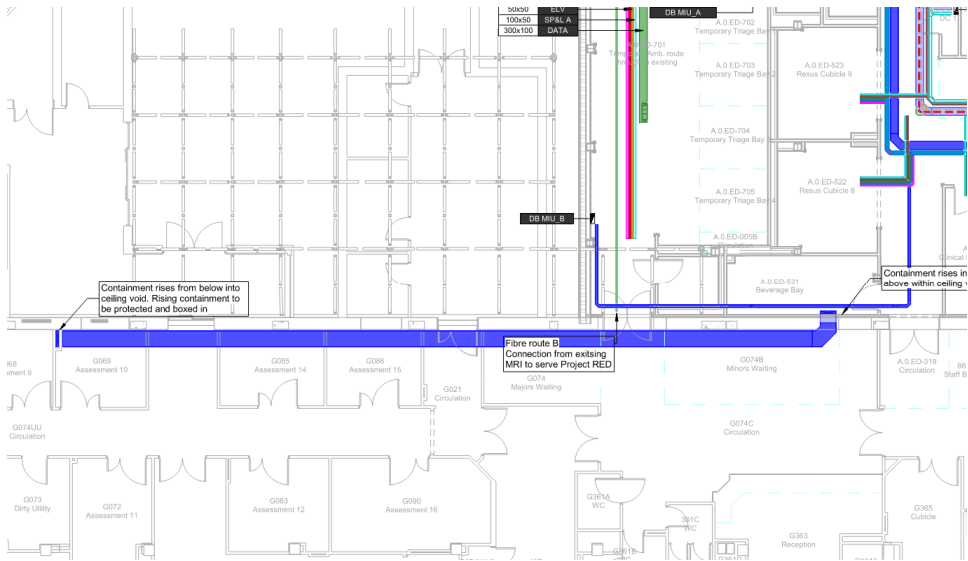


Plant Room Roof

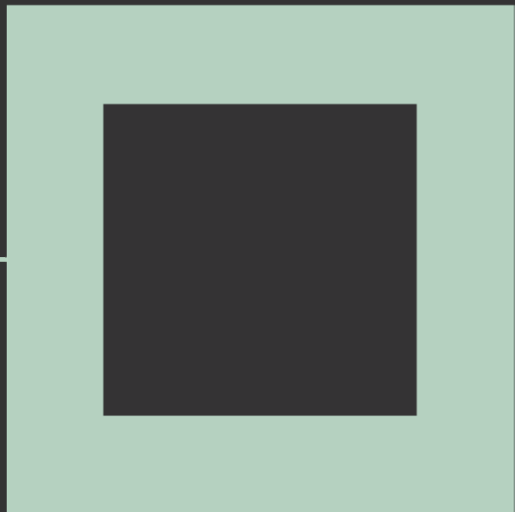
B Route – Through Basement



Basement



Ground Floor



Thank you.
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