

Clough Bank B Bat  
Mitigation structural  
concept design.

Originator: WH  
Checker NK

Date 23/05/2024

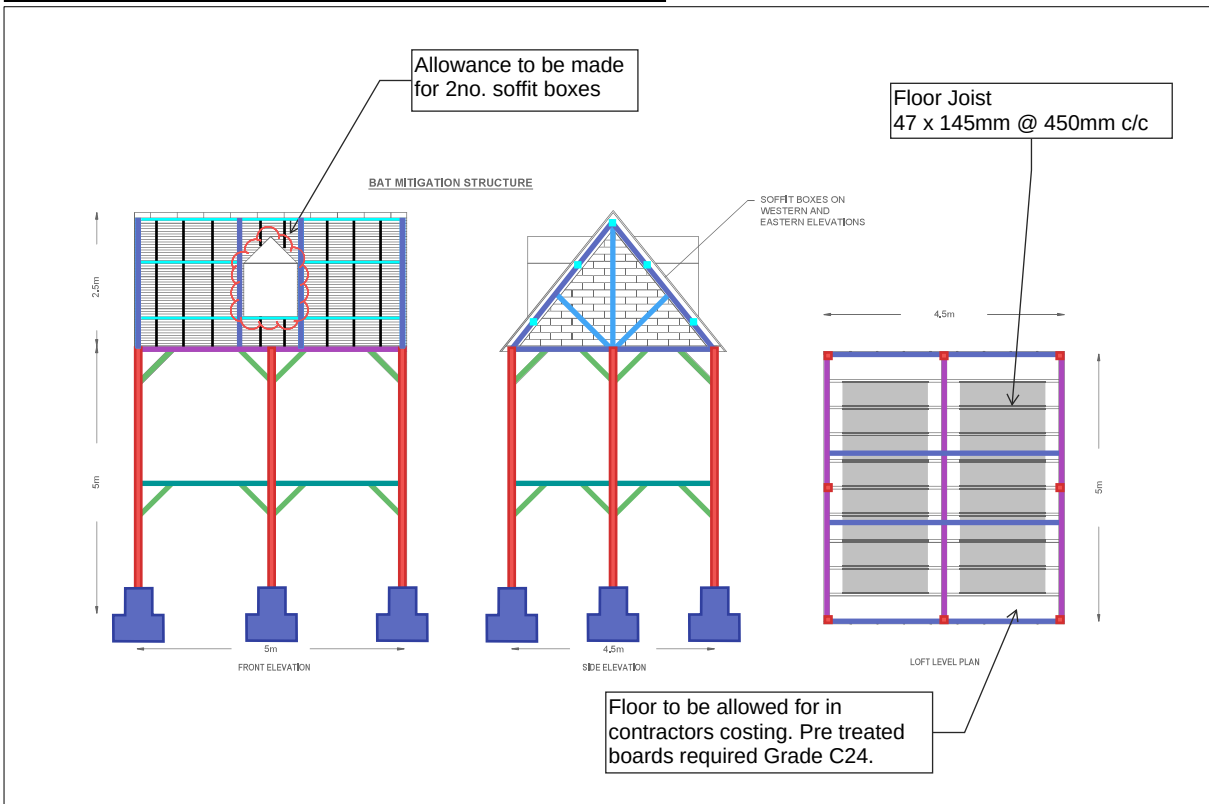
This document is provided  
for the purposes of  
informing initial costing  
and should not be used  
for construction. Drawing  
prepared for contractor  
tender only.

Structural Notes:

- All timber to be Grade C24 to BS EN 338.
- All timber to be service class 3 to BS EN 1995-1-1 Table NA.2.
- All timber to be vacuum low pressure treated.
- All timber to be pre-treated including any end cuts.
- All concrete to be Grade C32/40.
- All Concrete to be DC-2 mix.
- Contractor to allow for:
  - Staggered noggins at 600mm centres to the roof rafters
  - Staggered noggins at 900mm centres to the floor joists.
- Bitumen roofing felt.
- Fibreglass insulation.
- Slate roofing tiles and battens.
- Element sizes proposed are for costing purposes only.

Superstructure Structural Key:

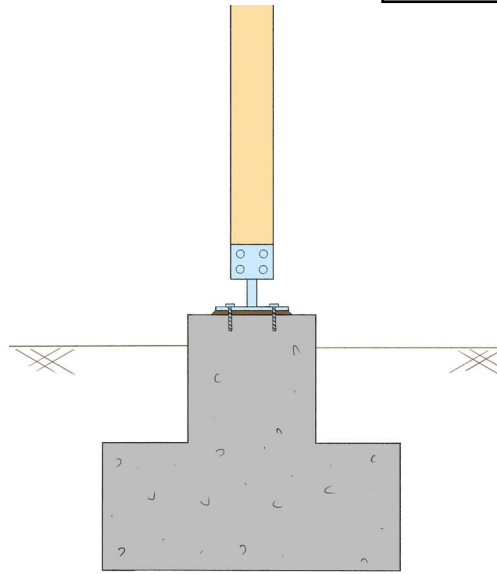
|                       |  |
|-----------------------|--|
| Timber Column         |  |
| 200mm x 200mm         |  |
| Timber Tie Beam       |  |
| 100mm x 100mm         |  |
| Timber Haunch         |  |
| 50mm x 75mm           |  |
| Timber Rafter         |  |
| 47mm x 100mm          |  |
| Timber Purlin         |  |
| 72mm x 175mm          |  |
| Timber Beam           |  |
| 100mm x 200mm         |  |
| Timber Truss chord    |  |
| 100mm x 150mm         |  |
| Timber Truss diagonal |  |
| 75mm x 100mm          |  |



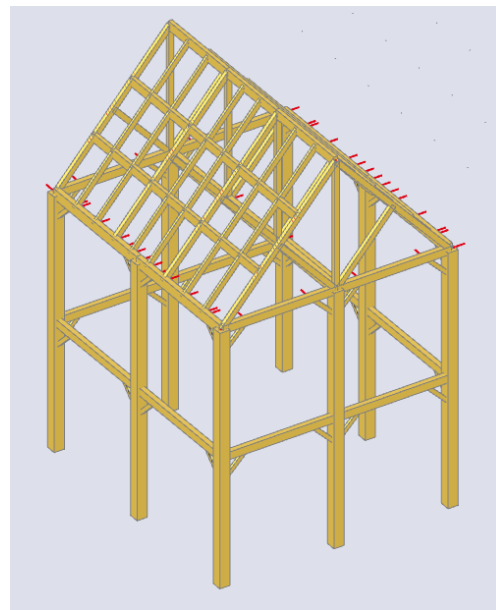
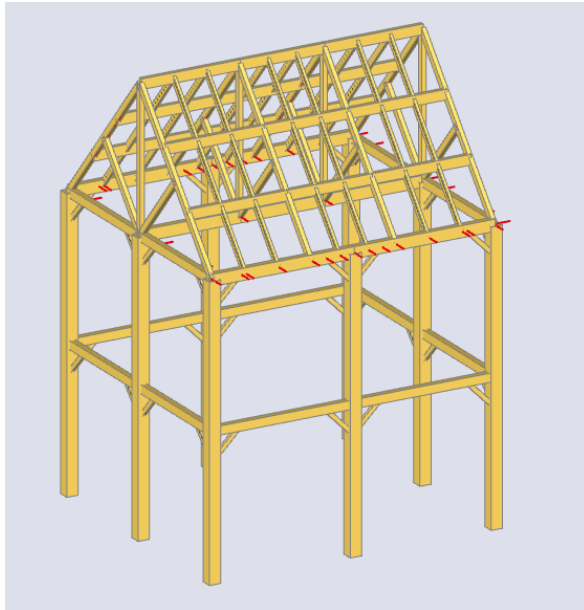
Substructure Structural Key:

1000mm x 1000mm x 600mm deep mass filled concrete pad foundation with a single layer of A393 mesh in top layer supporting 600mm x 600mm x 600mm RC stub. Stub to be reinforced with B12 L bar top hat. Foundation to protrude ground level by 150mm fitted with steel shoe connection to timber column. 4 bolt connection required to timber column to provide partial fixity.





Typical timber shoe connection detail



3D Images of structural proposal

**AECOM**

PROJECT

Clough Bank B MAG

CLIENT



CONSULTANT

**AECOM**  
100 Embankment  
Cathedral Approach  
Manchester  
M3 7FB

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