# Appendix 5 Structural details

## 45x5 LK20BP Lionmesh mesh flooring or similar approved New steel beam min 20mm separation to roof finishes to allow for delfection NOT FOR CONSTRUCTION Baseplate with thermal break - Armatherm or similar approved - specification to be Waterproofing of confirmed by architect interface detail by Insulation and finishes zone others Acoustic base isolator fixed to existing masonry wall - to acoustician specification Assumed load bearing masonry party Existing timber roof joists fixed to masonry wall (assumed at approx. walls 225mm thick between residential units 500mm c/c TBC on site) - 18mm plywood panel fixed across top of joists forming diaphragm Louvre enclosure walls max 1.5m Section A-A Assumed existing timber high with min 32% free area allowing roof joists spanning permeability of wind through wall between party walls panels New steel beams bearing onto existing masonry walls via thermal break and acoustic isolator 1,760 mm 1,760 mm 1,760lmm SB-01 SB-01 шш 45x5 LK20BP Lionmesh mesh flooring or similar 470 approved 4 SB-01 SB-01 SB-01 **SB-01** Α Existing voids in roof structure 4061 3920 3831 3981 4004

# Roof plan - plant enclosure structure

#### **NOTES**

- 1. NO DIMENSIONS TO BE SCALED FROM THIS DRAWING 2.THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SERVICES AND ENGINEERS DRAWINGS TOGETHER WITH THE RELEVANT SPECIFICATION AND GENERAL NOTES
- 3. ANY NON STRUCTURAL ITEMS SUCH AS WATERPROOFING, CLADDING, FINISHES, FIRE STOPPING ARE TO BE THE ARCHITECTS
- 4. ALL PROPRIETARY PRODUCTS ARE TO BE USED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS DETAILS AND REQUIREMENTS.
- 5. THE STRUCTURE IS DESIGNED AND DETAILED FOR THE PERMANANT CONDITION ONLY THE CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURE IN ITS TEMPORARY CONDITION, ANY TEMPORARY WORKS REQUIRED DURING CONSTRUCTION AND ANY TEMPORARY LOADS ONTO THE EXISTING AND NEW STRUCTURE WHICH SHALL BE LESS THAN THOSE FOR WHICH IT HAS BEEN CONFIRMED OR DESIGNED RESPECTIVELY
- 6. ALL WORKS UNDERTAKEN BY CONTRACTOR TO BE COMPLIANT WITH RELEVANT AND CURRENT BUILDING CODES, REGULATIONS AND GOOD PRACTICES

# Key

---- Proposed steel beam

Existing/proposed roof joists

# Assumed loading

- Weight of ASHP units confirm as 120kg each
- SIDL of enclosure mesh decking = 0.8kN/m2
- SIDL of enclosure louvred wall panels = 0.3kN/m2
- LL on decking (maintenance access) = 0.75kN/m2

All build ups to be confirmed as design develops, size and arrangement of structure subject to these

### Steel schedule

SB-01 = UKB 152x89x16 (S275)

All exposed steelwork to have painted or galvanised protection system suitable to an external environment