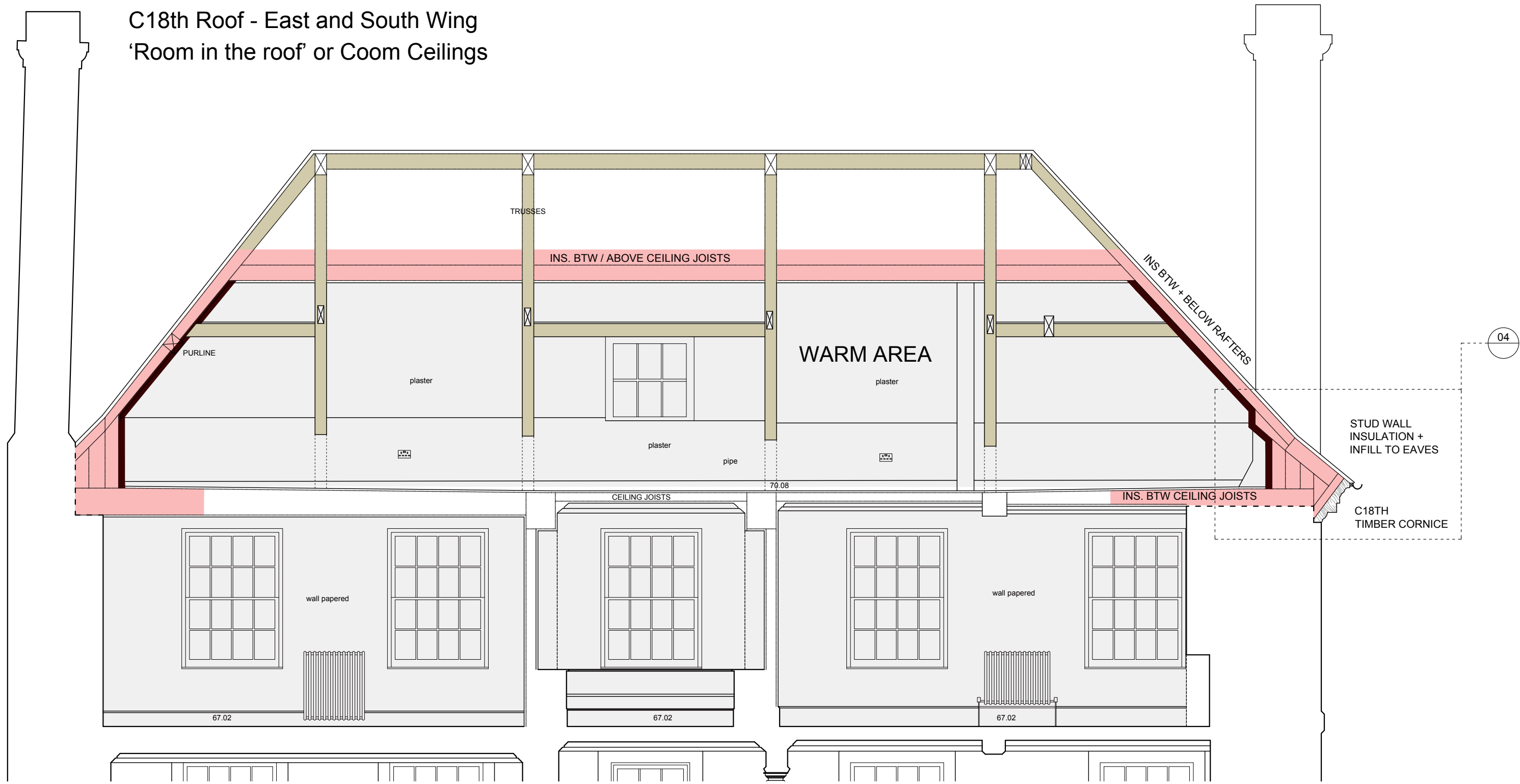
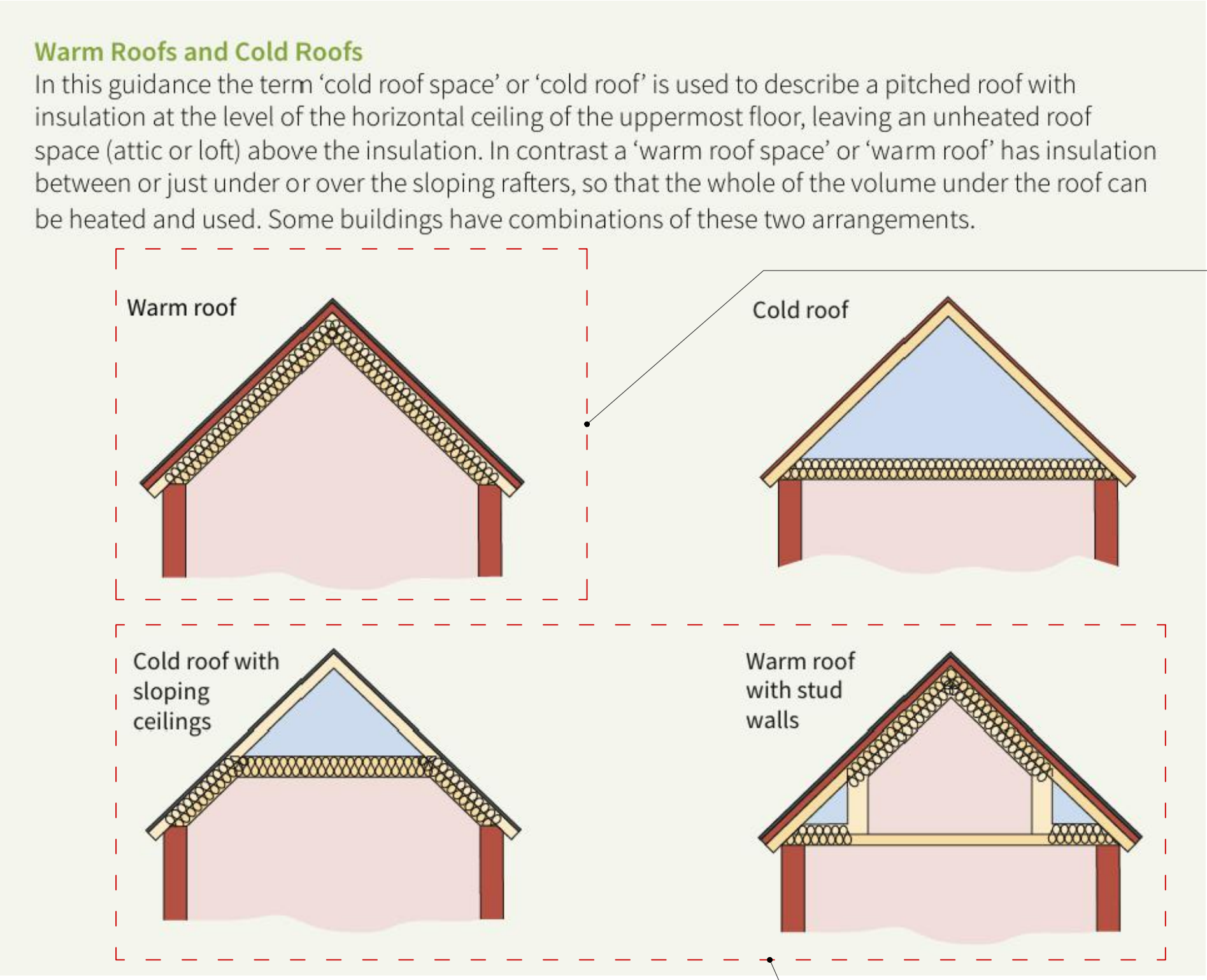
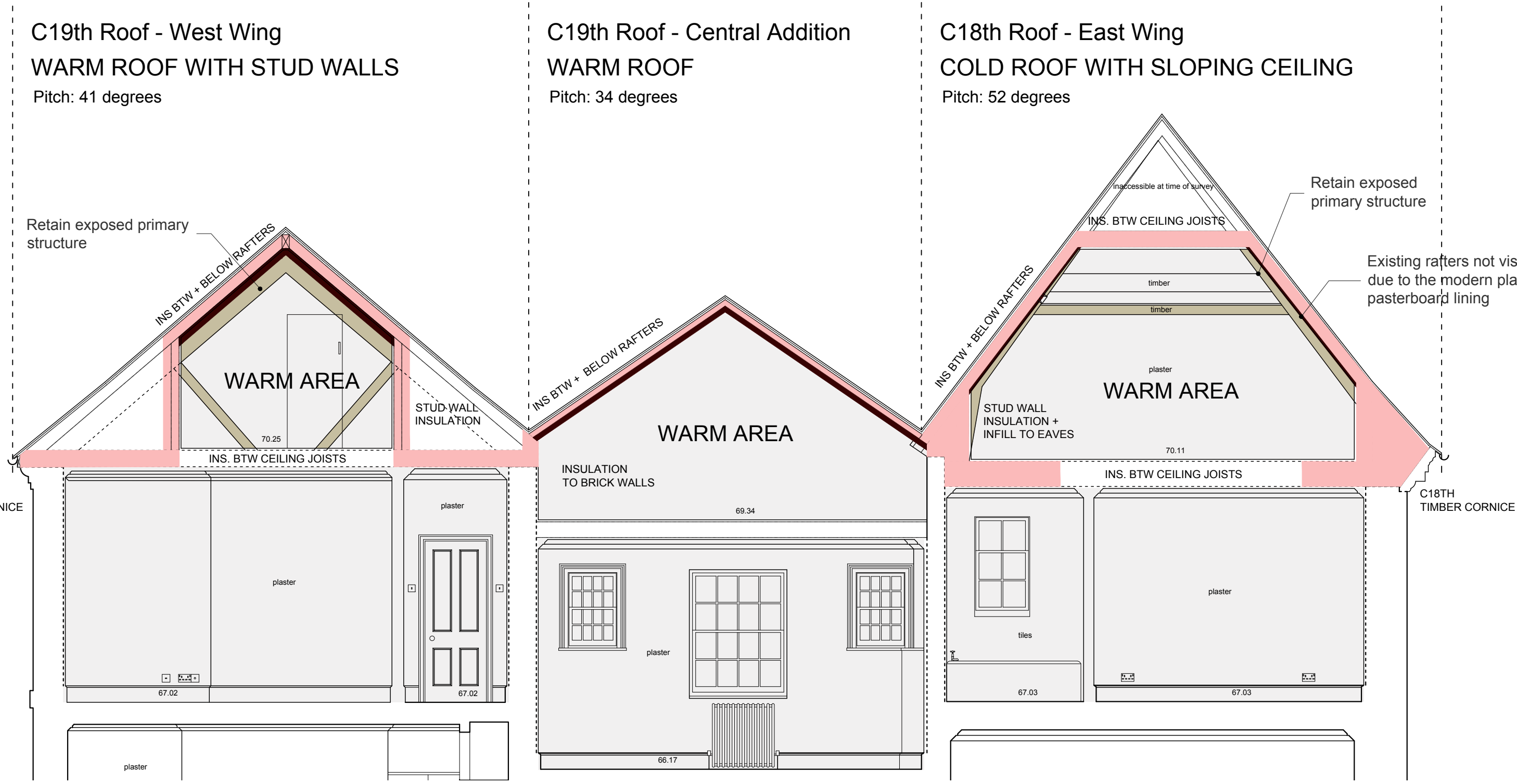




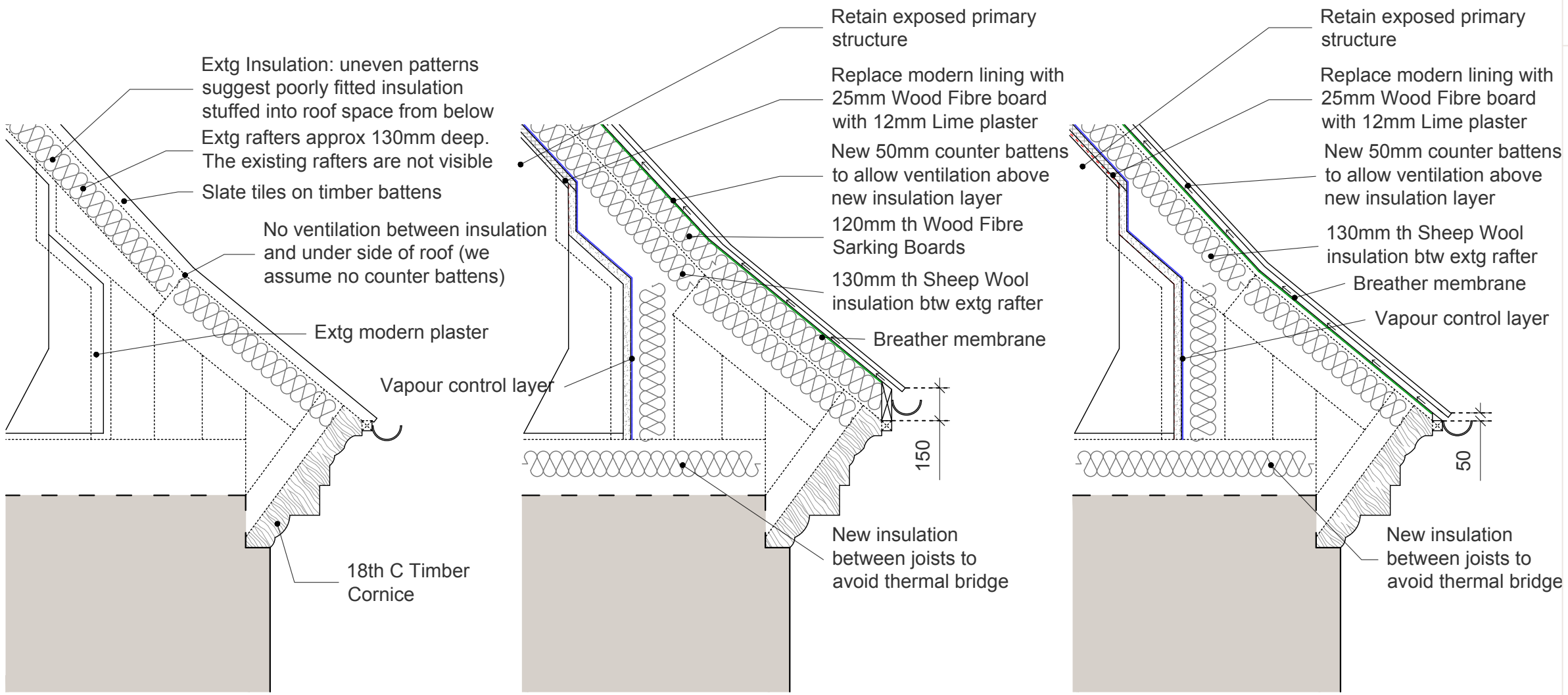
01 Main House - Section A-A - C18th Roof Insulation Strategy
1:50@A1



03 HE Pitched Roof Insulation Strategies
Hybrid strategy between warm and cold roof



02 Main House - Section C-C - C19th and C18th Roof Insulation Strategy
1:50@A1



EXTG ROOF STRUCTURE EAVES
Poor modern interventions with insulation staffed unevenly between rafters with no clear 50mm ventilation zone above insulation generated poor energy performances and damp issues. The existing rafters are concealed behind modern lining. We propose to remove the modern roof insulation and lining.

VENTED ROOF WITH INSULATION BETWEEN, ABOVE AND BELOW RAFTERS
U-Value: 0.16 W/m²K
The roof would meet Part L requirements but with an impact on the appearance of the C18th facade, with the addition of a 150mm border above the original timber cornice.

VENTED ROOF WITH INSULATION BETWEEN AND BELOW RAFTERS PROPOSED OPTION
U-Value: 0.30 W/m²K
General improvement of energy performances and ventilation, would allow to increase the roof level of only 50mm. This option has a lower impact on heritage.

04 Insulation Options - Heritage Impact Analysis
1:20@A1

GENERAL NOTE
Insulation and finishes selected to illustrate indicatively RPA's design intent and may be subject to variation

LEGEND

- Exposed timber structure
- Insulation layers between and below rafters

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Checked by
JM

Drawn by
MP

Date
18.12.25

Description
Planning

Job No
335

Project
Sunte House

Title
Sunte House
Roof Insulation Strategy

Drg No
MH-DR-00-500

Scale
as shown@A1

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-

Status
Planning

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