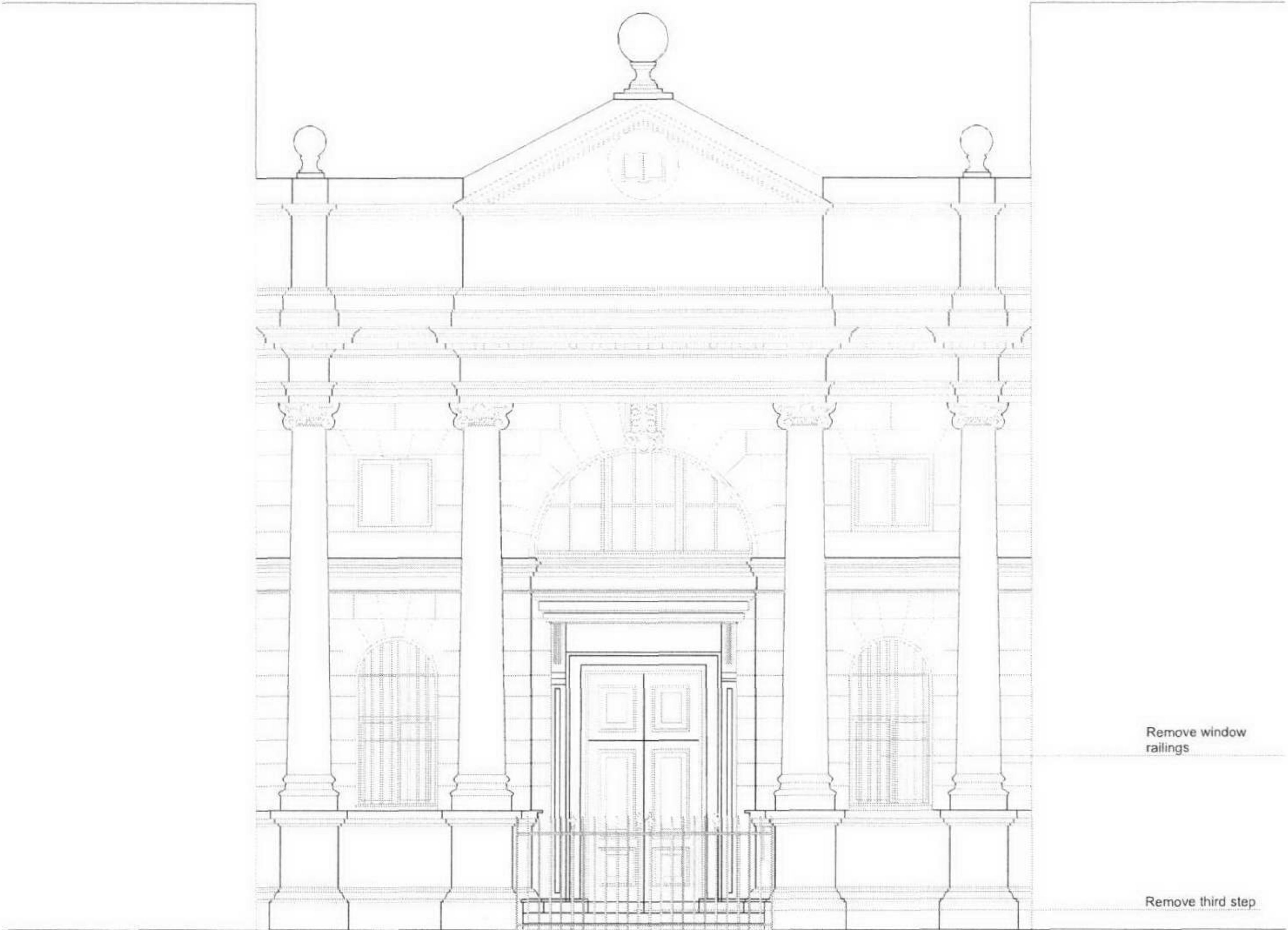


Existing west elevation

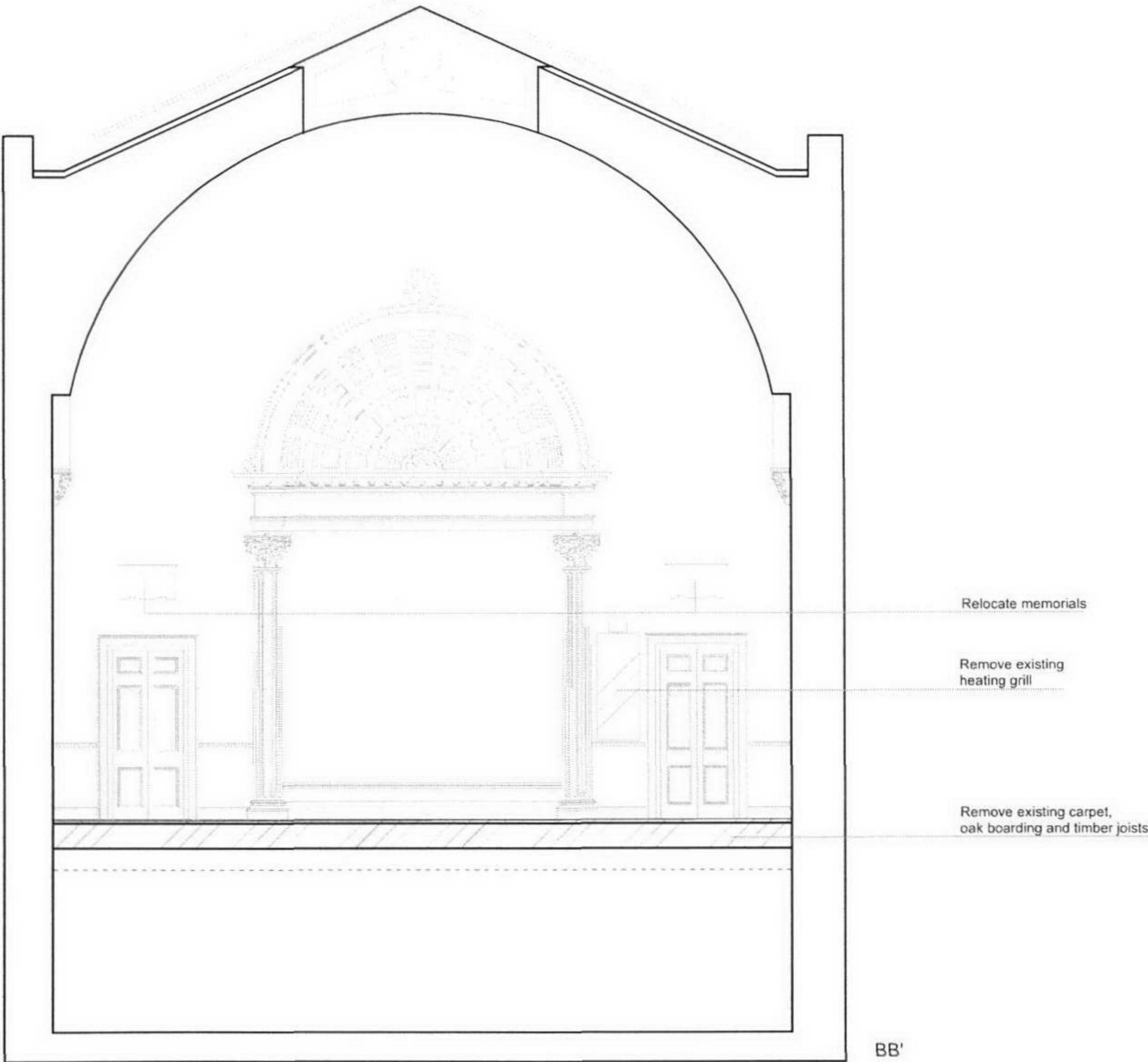
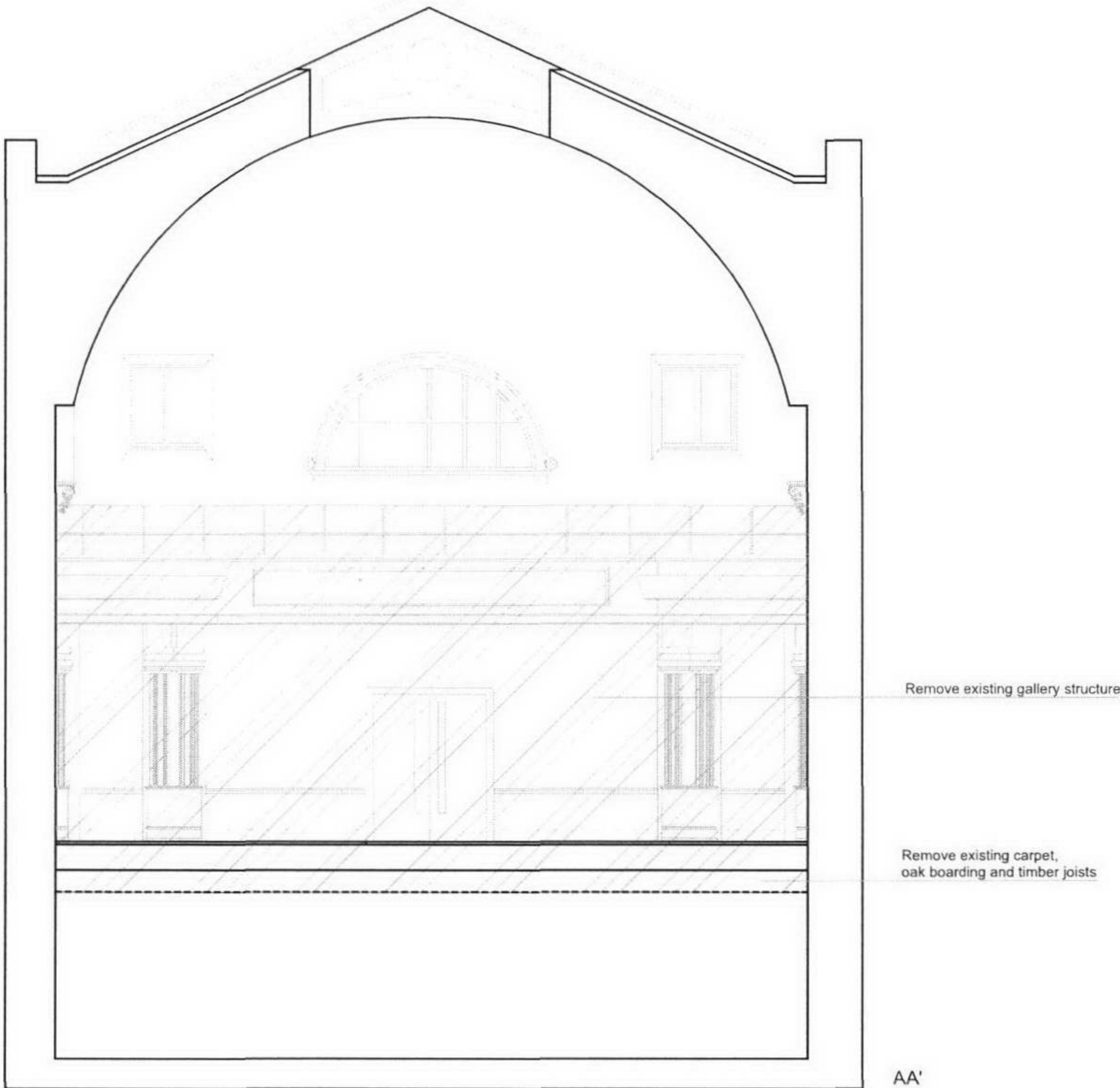


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REPORT ALL DISCREPANCIES  
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PROJECT		PHASE	
The Swiss Church, London		Planning Application	
CONTENT		PLAN NO.	
Existing street elevation		1064_00-006	
FORMAT	SCALE	DATE	REV
42/29.7	1:100	20.12.2007	
CHRIST & GANTENBEIN AG, ARCHITECTEN ETH SIA BSA, SPITALSTRASSE 12, 4056 BASEL, T 061 260 90 20, F 061 260 90 30, mail@christgantenbein.ch			

Existing cross sections AA' / BB'

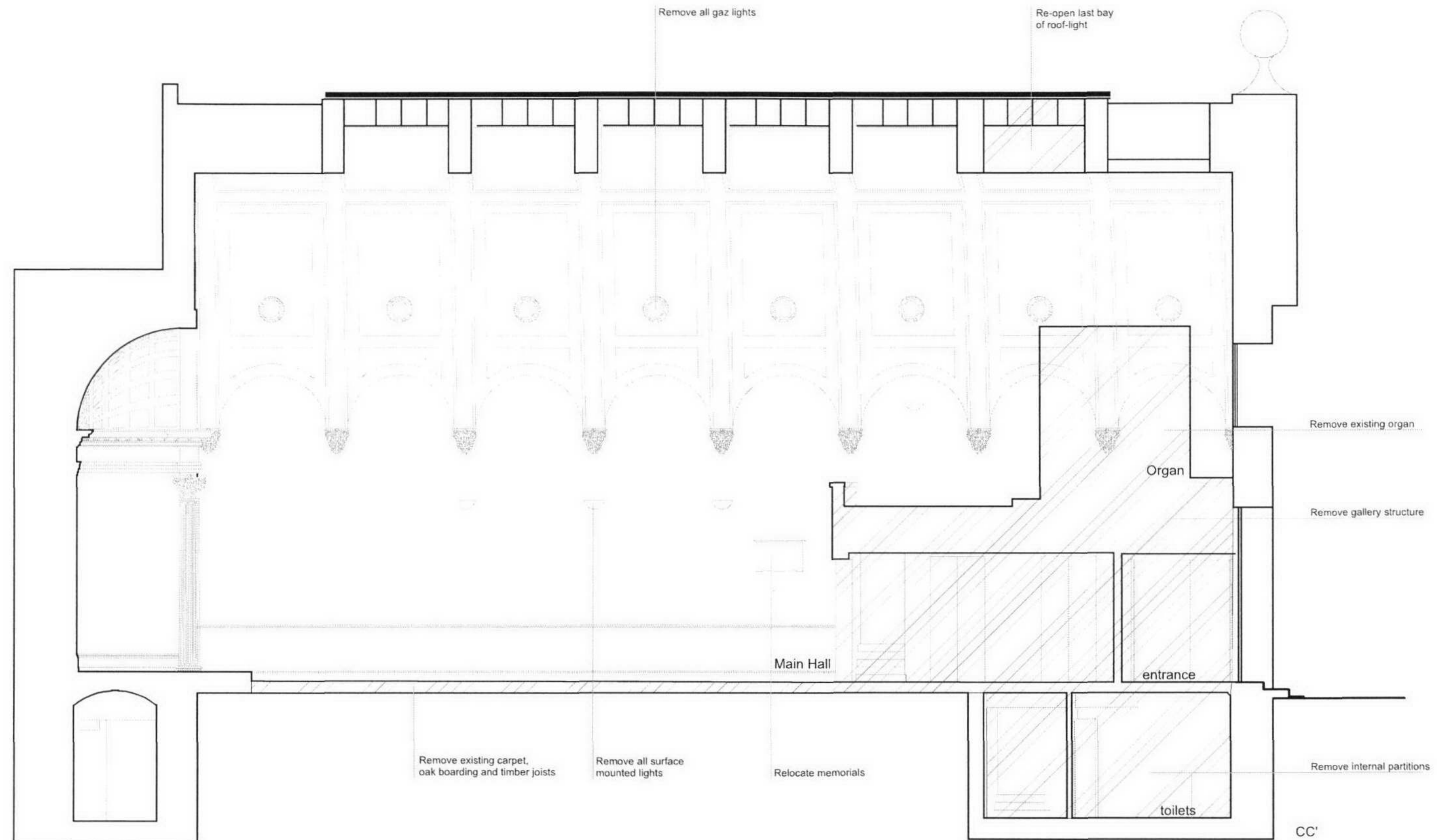


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PROJECT	The Swiss Church, London			PHASE	Planning Application		
CONTENT	Existing sections AA'/BB'			PLAN NO.	1064_00-007		
FORMAT	SCALE	DATE	REV.				
42/29.7	1:100	20.12.2007					
CHRIST + GANTENBEIN AG, ARCHITEKTEN ETH SIA BSA, SPITALSTRASSE 12, 4056 BASEL, T 061 260 920 20, F 061 260 920 30, mail@christgantenbein.ch							

CHRIST & GANTENBEIN AG, ARCHITECTEN ETH SIA BSA, SPITALSTRASSE 12, 4056 BASEL, T 061 260 90 20, F 061 260 90 30, mail@christgantenbein.ch

# Existing long section CC'



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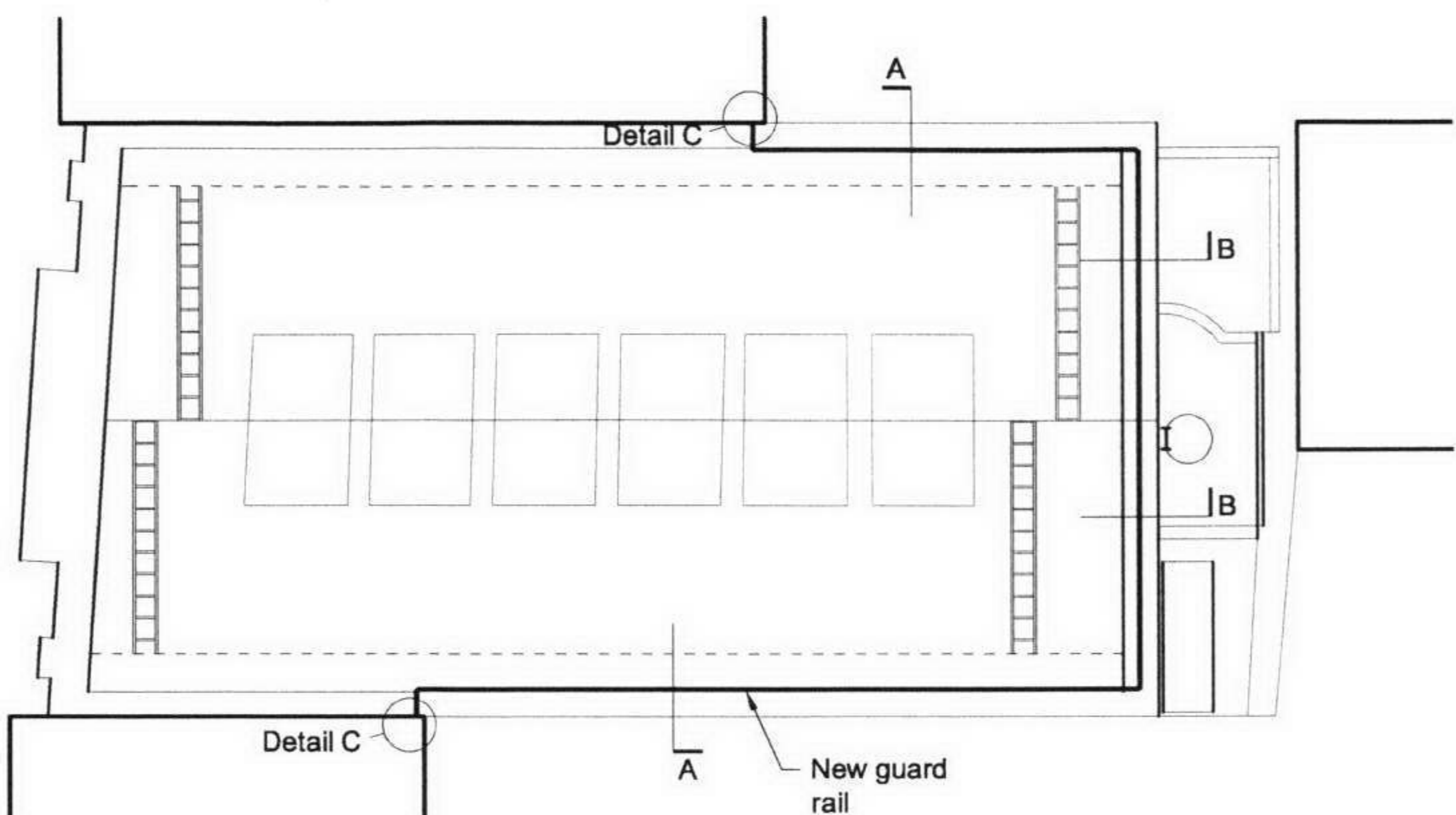


PROJECT		PHASE	
The Swiss Church, London		Planning Application	
CONTENT		PLAN NO.	
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CHRIST & GANTENBEIN AG, ARCHITEKTEN ETH SIA BSA, SPITALSTRASSE 12, 4056 BASEL, T 061 260 90 20, F 061 260 90 30, mail@christgantenbein.ch			

# 4. Detailing

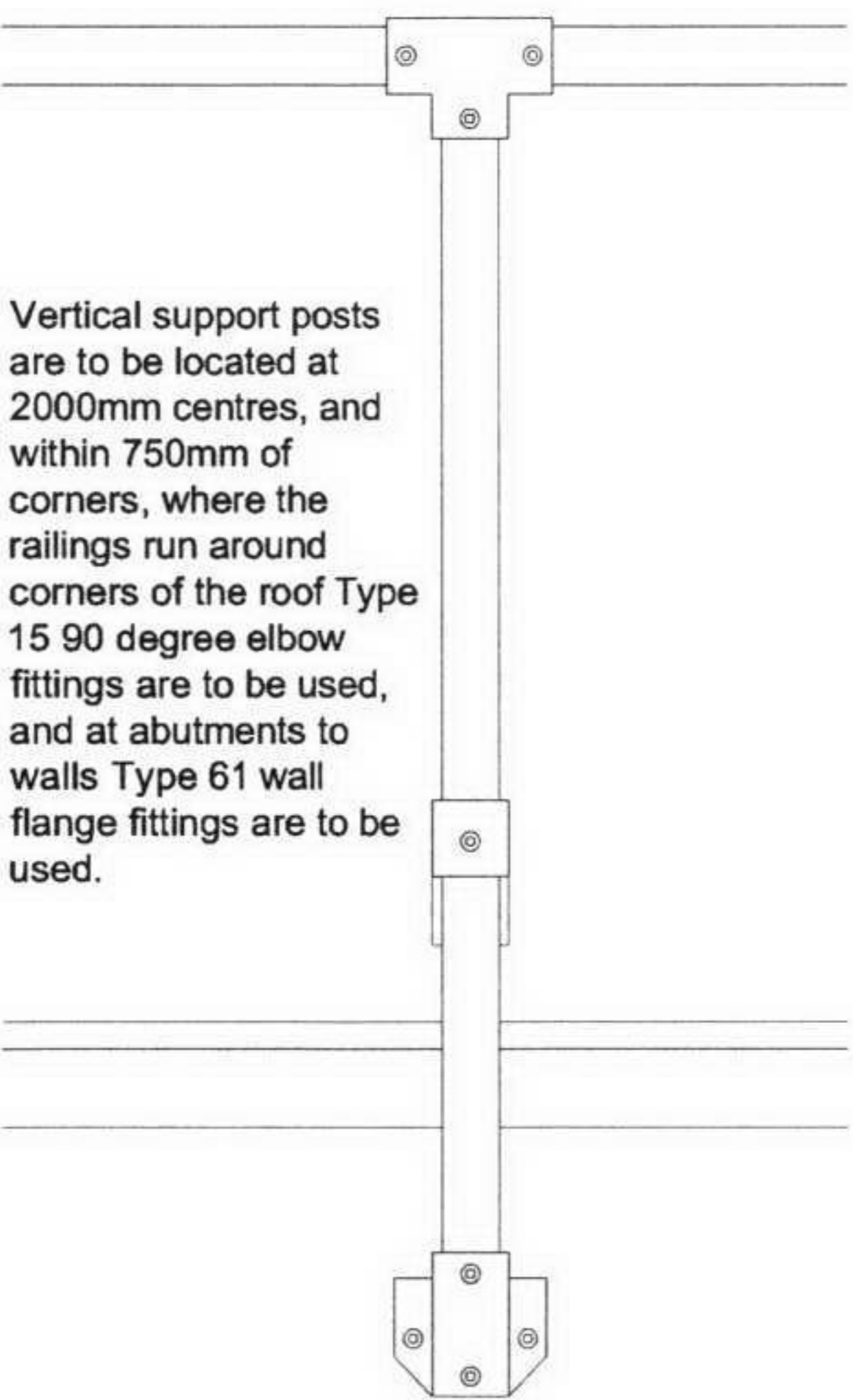
## 4.1 Proposed details

NOTE 1  
Do not scale from this drawing.  
Confirm all dimensions on site.  
Refer any discrepancies to the  
Architect before work is put  
in hand. Read this drawing in  
conjunction with the relevant  
sections of the specification,  
schedule of works and other  
drawings.



Key roof plan

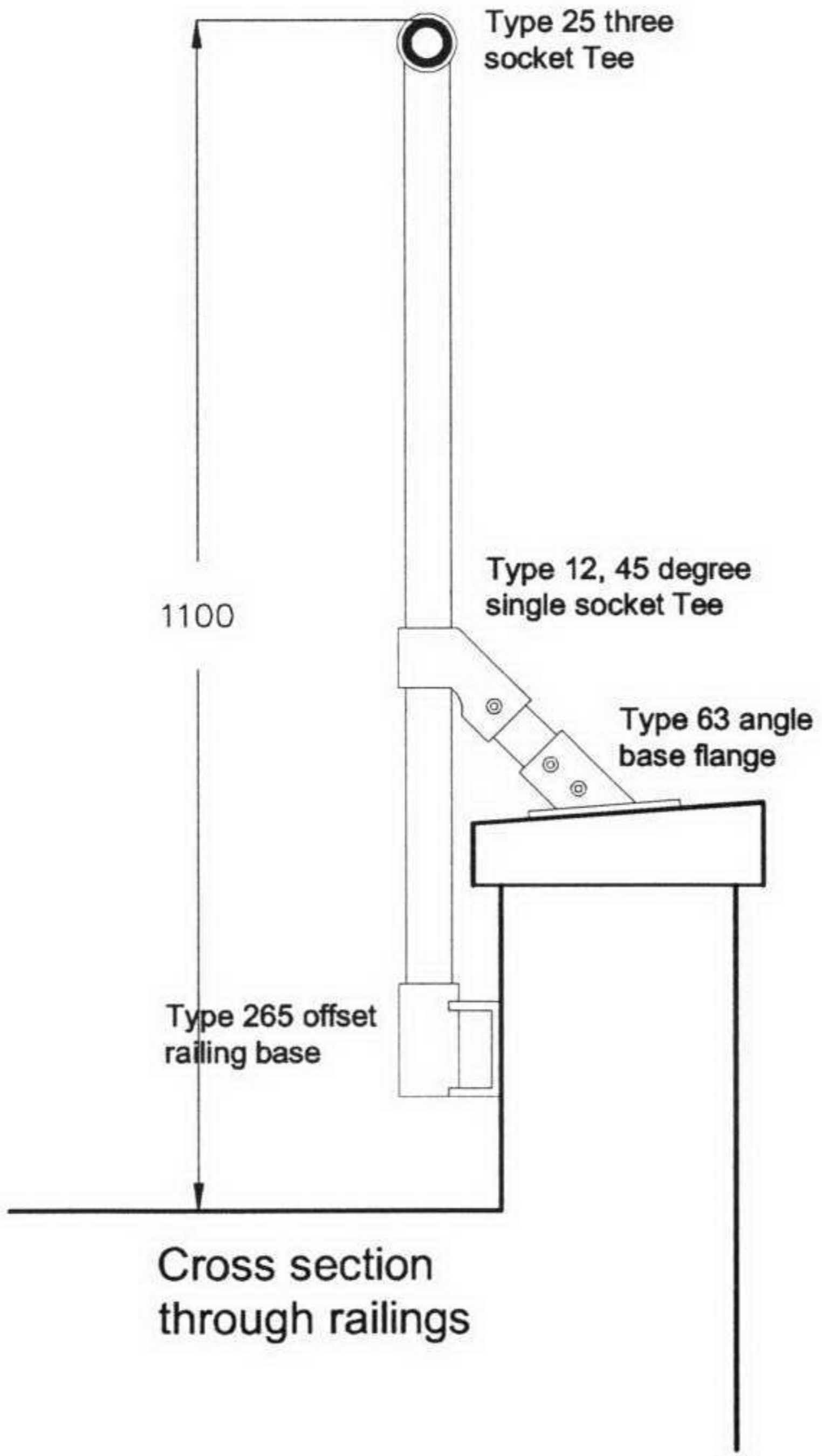
Parapet safety guard railings, to be constructed using Kee Klamp railing system, using 42mm diameter galvanised rails, and joint fixings as indicated.



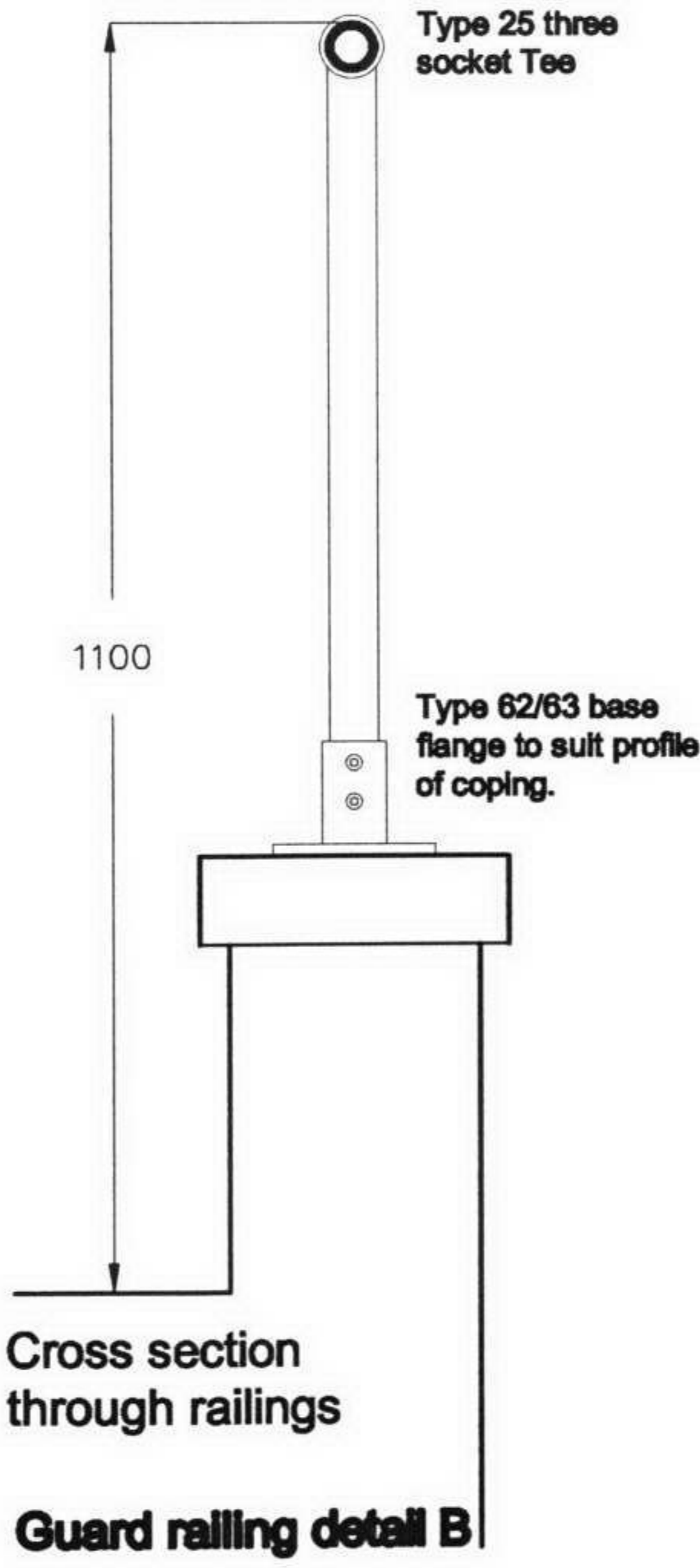
Vertical support posts are to be located at 2000mm centres, and within 750mm of corners, where the railings run around corners of the roof Type 15 90 degree elbow fittings are to be used, and at abutments to walls Type 61 wall flange fittings are to be used.

Elevation of railings

Guard railing detail A



Cross section through railings



Cross section through railings

Guard railing detail B

Junction of railing to adjoining wall using type 61 wall flange.

Detail C

<b>WCP</b> THE WHITWORTH CO-PARTNERSHIP <small>Chartered Architects and Surveyors 18 Water Street, Bury St Edmunds, Suffolk, IP83 1JH. tel: 01284 760421 fax: 01284 757734 e-mail: info@wcp.co.uk website: www.wcp-architects.com</small>		
Client Swiss Church		
Job Title Re-ordering works		
Drawing Title Details of proposed roof guard railings		
Scale 1:100/5	Drawn By MC	Date Jan 08
Job No. C713	Drawn No./Rev. 1064_03-007	12

# 5. Technical details

## 5.1 M&E Report

### Swiss Church in London

#### 1 Introduction

This report has been produced to supplement the planning application information being submitted by the architect.

#### 2 Drawings:

The following relevant BDP M&E drawings are to be read in conjunction with this document:

MSK009 – Rear Elevation Ventilation Plant Location

#### 3 Building Regulations:

Part L of the Building Regulations (conservation of fuel and power) generally requires improvements to the building fabric. However, because the Church is listed the extent of any improvements will need to be agreed with the Listed Building Officer.

#### 4 Renewable Energy Obligation:

As the Swiss Church redevelopment is to be less than 1,000m<sup>2</sup> it does not have to comply with the on-site renewable energy obligations detailed in the London Borough of Camden Unitary Development Plan 2006 and the Camden Planning Guidance 2006.

This has been confirmed with the Camden Duty Planning Officer and we are awaiting a requested copy of the agreement in writing.

#### 5 External Lighting:

External lighting is only required on the top of the front entrance door.

#### 6 Lightning protection:

A lightning protection system is not required.

Daten:1064 Swiss Church:02\_PLAENE:04\_BAUPROJEKT:04\_EXTERN:07\_BDP Services:Swiss Church Reduced  
Stage D Report for planning application\_revVE.doc

Rev - 7 January 2008

Page 1 of 1

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DO NOT SCALE FROM THIS DRAWING.

ANY DRAWING ERRORS OR DIVERGENCES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW

## NOTES

- ① MAIN HALL EXTRACT DUCT (800 Ø)
- ② MAIN HALL AHU
- ③ MAIN HALL SUPPLY DUCT (850 x 850)
- ④ MAIN HALL SUPPLY DUCT (850 x 850)
- ⑤ OFFICE AHU
- ⑥ OFFICE SUPPLY AND EXTRACT DUCTS (2x 350 x 300)
- ⑦ OFFICE SUPPLY AND EXTRACT DUCTS (2x 350 x 300)
- ⑧ KITCHEN EXTRACT FAN AND DUCT (200 x 300)
- ⑨ KITCHEN SUPPLY FAN AND DUCT (200 x 300)
- ⑩ KITCHEN SUPPLY AND EXTRACT DUCTS (2x 200 x 300)

FIRST ISSUE

HR

DL

14.12.07

REVISION / DESCRIPTION

DRAWN

CHECKED

DATE

KEY PLAN

CLIENT

Swiss Church

**BDP**

Building Design Partnership

Architects, Designers & Engineers

7 Hill Street

Bristol BS1 5RW

Tel +44 (0)117 929 9861

Fax +44 (0)117 922 5280

www.bdp.co.uk

PROJECT TITLE

Swiss Church  
In London

DRAWING TITLE

Rear Elevation  
Ventilation Plant  
Location

SCALE @ A3

N.T.S.

DATE

Dec 07

REVISION

14



**BDP Acoustics**  
Acoustic design & consultancy

## 5.2 Baseline Noise Survey Report

### Swiss Church

#### *Baseline Noise Survey Report*

**Prepared for** BDP

**Prepared by** BDP Acoustics  
16 Brewhouse Yard,  
Clerkenwell, London  
EC1V 4LJ  
T +44 (0)20 7812 8000  
T +44 (0)20 7812 8399  
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**Doc Status** Issue

**Doc ref** LNU2002195/DR/R002

**Date** 15 November 2007

**Authored by**

Frances Clifford

**Checked by**

Ian Bromilow

**Approved by**

Ian Bromilow

# 1 Introduction

BDP Acoustics was commissioned to undertake a baseline noise survey at the proposed development site of Swiss Church, Endell Street, London. The purpose of this survey was to provide:

- a formal record of the external noise climate; and
- information for use in setting noise emission limits for any new building services installations.

This report details the survey methodology and the measurement results.

# 2 Site description

The church is situated in a densely populated urban area. The surrounding properties are of mixed use, including retail, residential, leisure and office buildings. The site is adjacent to several major roads, including Shaftesbury Avenue, about 100 m to the east, and The A40, High Holborn about 200 m to the north.

# 3 Ambient noise climate

Noise sources around the site include road traffic on Shaftesbury Avenue and the A40. There is also contribution from several chillers and other mechanical services plant on adjacent buildings, as well as aircraft.

# 4 Measurements

## 4.1 Continuous measurements

A continuous noise survey was carried out between 1500 hrs 19 October and 1500 hrs 25 October 2007. The following equipment was used;

- |                                       |                     |
|---------------------------------------|---------------------|
| – Rion NL-32 Sound level meter        | Serial No. 00741746 |
| – Rion Microphone UC-53A              | Serial No. 306707   |
| – Rion Pre-amp NH-21                  | Serial No. 11830    |
| – Bruel & Kjaer 4230 Sound calibrator | Serial No. 1510643  |

The calibration of the sound level meter was checked before and after the measurements were taken and no drift was observed.

The continuous noise monitor was positioned on the roof of the Church, as shown in Appendix A. The microphone was positioned at a height of about 1.6 m above the roof level and was free from the influence of other reflecting surfaces. Noise levels were measured over 5 minute intervals. The weather during the measurement period is shown in Table 1 below:

Date	Weather conditions
19 Oct 2007	9 C – No precipitation – Wind; average = 0 mph, max = 7 mph
20 Oct 2007	9 C – No precipitation – Wind; average = 1 mph, max = 6 mph
21 Oct 2007	9 C – No precipitation – Wind; average = 1 mph, max = 5 mph
22 Oct 2007	8 C – No precipitation – Wind; average = 2 mph, max = 10 mph
23 Oct 2007	8 C – No precipitation – Wind; average = 1 mph, max = 15 mph
24 Oct 2007	9 C – No precipitation – Wind; average = 3 mph, max = 12 mph
25 Oct 2007	10 C – No precipitation – Wind; average = 6 mph, max = 9 mph

Table 1: Weather conditions during measurement period

# 5 Results

A large range of statistical noise data was captured; however, the following A-weighted noise parameters are of most interest:

- |           |  |
|-----------|--|
| $L_{A90}$ | Sound pressure level exceeded for 90% of the measurement period, this is generally accepted to be indicative of the continuous background noise level;                           |
| $L_{Aeq}$ | Time averaged sound pressure level. This is generally considered to be an acceptable representative descriptor of environmental noise, and;                                      |
| $L_{A1}$  | Sound pressure level exceeded for 1% of the measurement period. This is generally accepted to be indicative of the noise level of short term events, such as construction noise. |

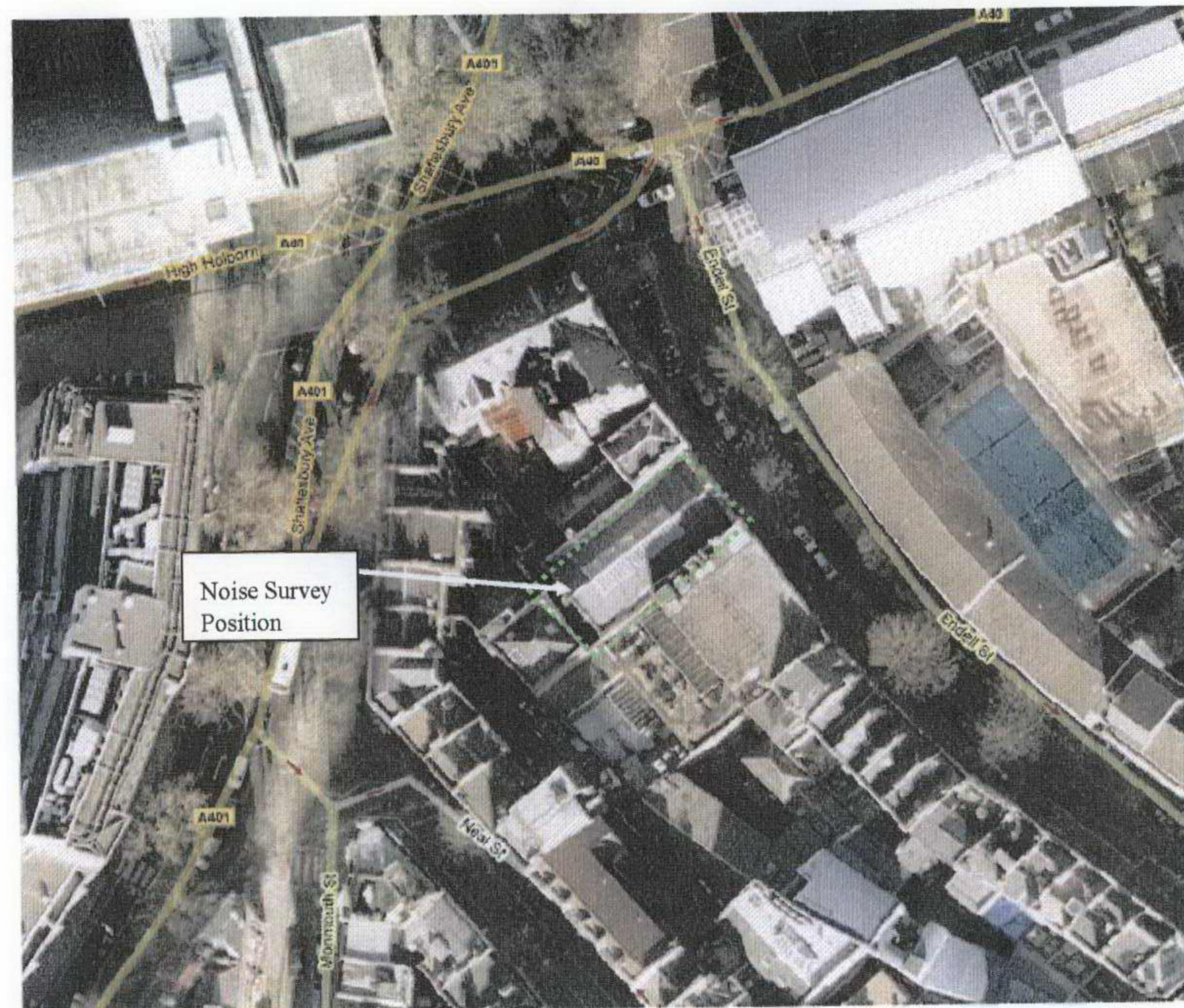
## 5.1 Continuous noise survey

The time history of the continuous noise measurements is shown in Appendix B. A summary of the results is provided below.

Time Period	Duration, T	Maximum overall A-weighted sound pressure level (dB) $L_{eq,T}$	Maximum overall A-weighted sound pressure level (dB) $L_{1,T}$	Minimum overall A-weighted sound pressure level (dB) $L_{90,T}$
Daytime (0700 – 2300 hrs)	1 hour	63	70	48
Night-time (2300 – 0700 hrs)	5 mins	57	64	45

Table 2: Continuous noise measurements summary

## Appendix A – Site map indicating noise survey position



## Appendix B – Continuous noise survey results

