



**Proposed London Underground
(Victoria Station Upgrade) Order**

Objection by Victoria Palace

**Appendices to Proof of Evidence of
Colin Wilson OBJ21/P10A**

Proposed London Underground (Victoria Station Upgrade) Order
Victoria Palace

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ORIGINAL STRUCTURAL DRAWINGS

APPENDIX A

**PHOTOS OF OPENING UP
WORKS**

- Photo A1 Shows front facade of theatre and location where a section of stone faience was removed for sign fixing investigations
- Photo A2 Shows steel column found in above location.

Photo A1



Photo A2



APPENDIX B

**PHOTOS OF ARCHIVE DRAWINGS FROM
VICTORIA AND ALBERT MUSEUM**

Index to Photos

- Photo B1 Original Blue Print of Circle steelwork showing two large stanchions within the walls also shows boxes are hung from roof.
- Photo B2 Original Blue Print of main girder that is supported on steel stanchions.
- Photo B3 Original Architect drawing of cross section showing all three primary structural members supported on Steel Stanchions.
- Photo B4 Original Architect drawing of front of house upper circle showing steel stanchions to front of building – same stanchion in photo A2.
- Photo B5 Original Architect drawing of front of house Balcony showing steel stanchions to front of building.
- Photo B6 Original Architect drawing of gallery and balcony level showing stanchions indicated in B1.
- Photo B6 Original Architect drawing cross section showing pad foundations for stanchions.
- Photo B7 Original Architect drawing Allington Street elevation & section showing pad foundations for stanchions.
- Photo B8 Original Architect drawing showing stanchions to be installed along Duke of York Pub wall (at the time an existing wall).
- Photo B9 Original Architect working sketch/drawing showing stanchions to front of building.
- Photo B10 Original Architect drawing showing bridging of the KSPS.
- Photo B11 Original Architect drawing showing part plans at each level showing stanchions – as B1.
- Photo B12 Original Architect drawing indicating stanchions in the rear of stage wall.

Photo B1

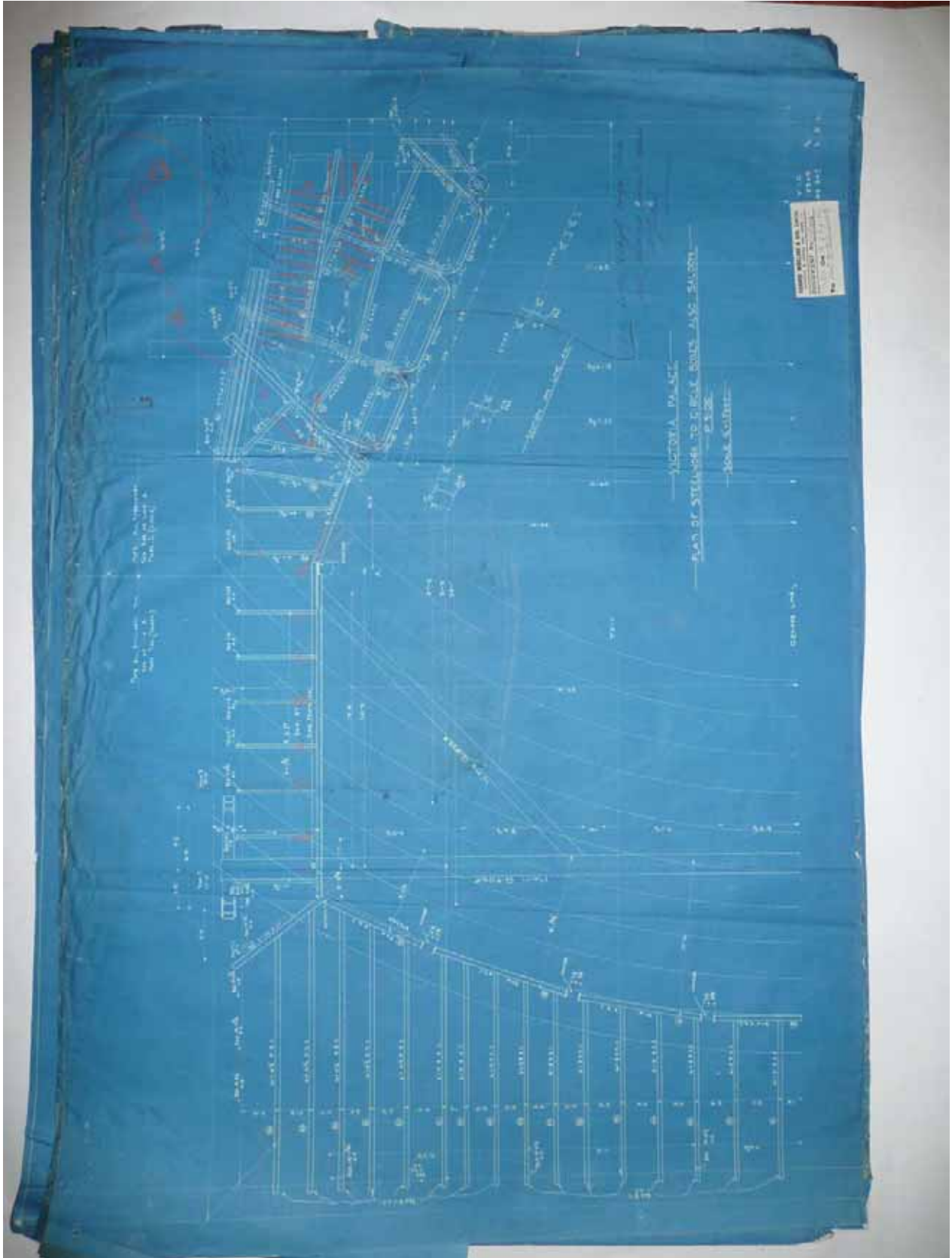


Photo B2



Photo B3



Photo B4

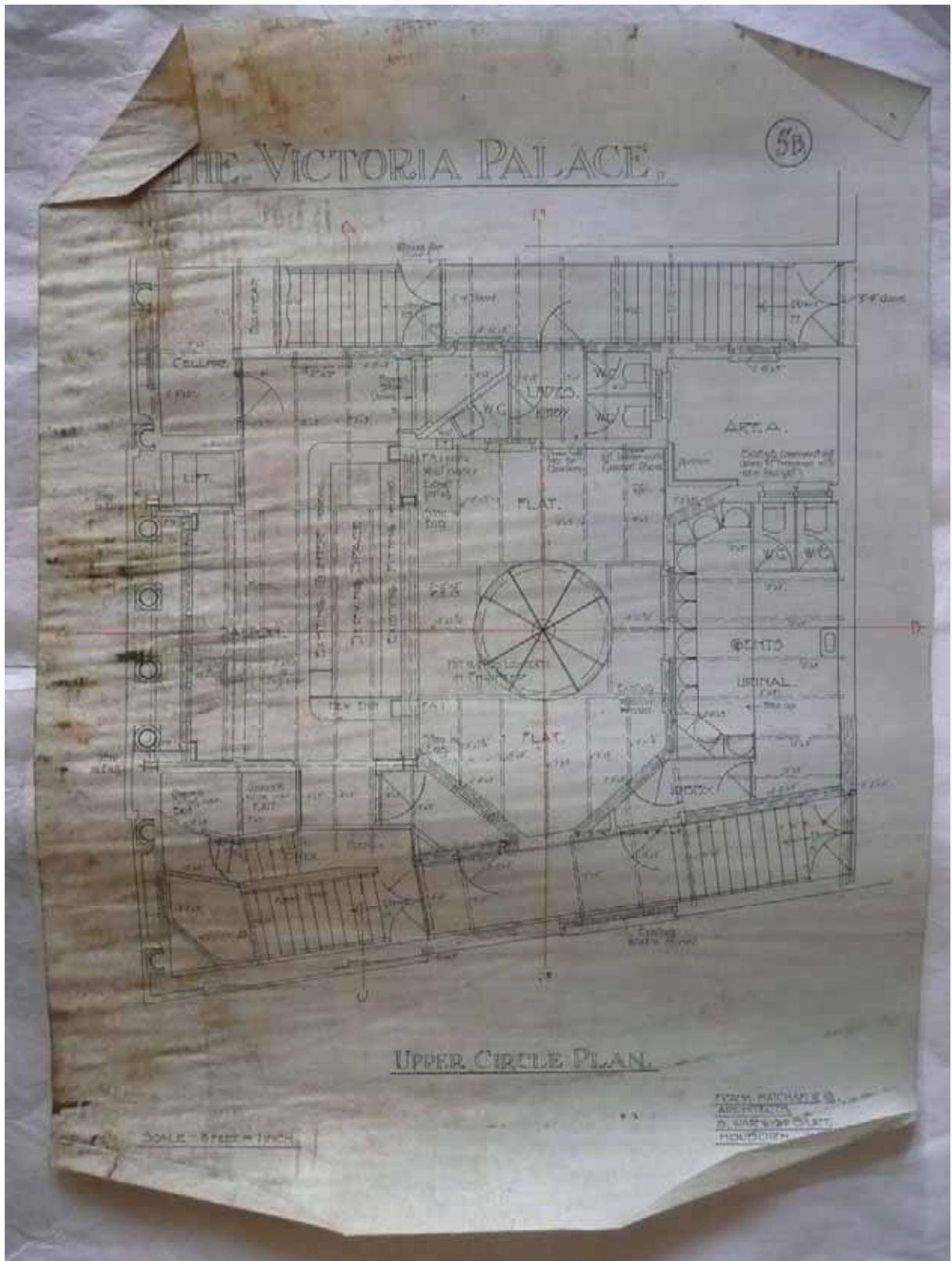


Photo B5

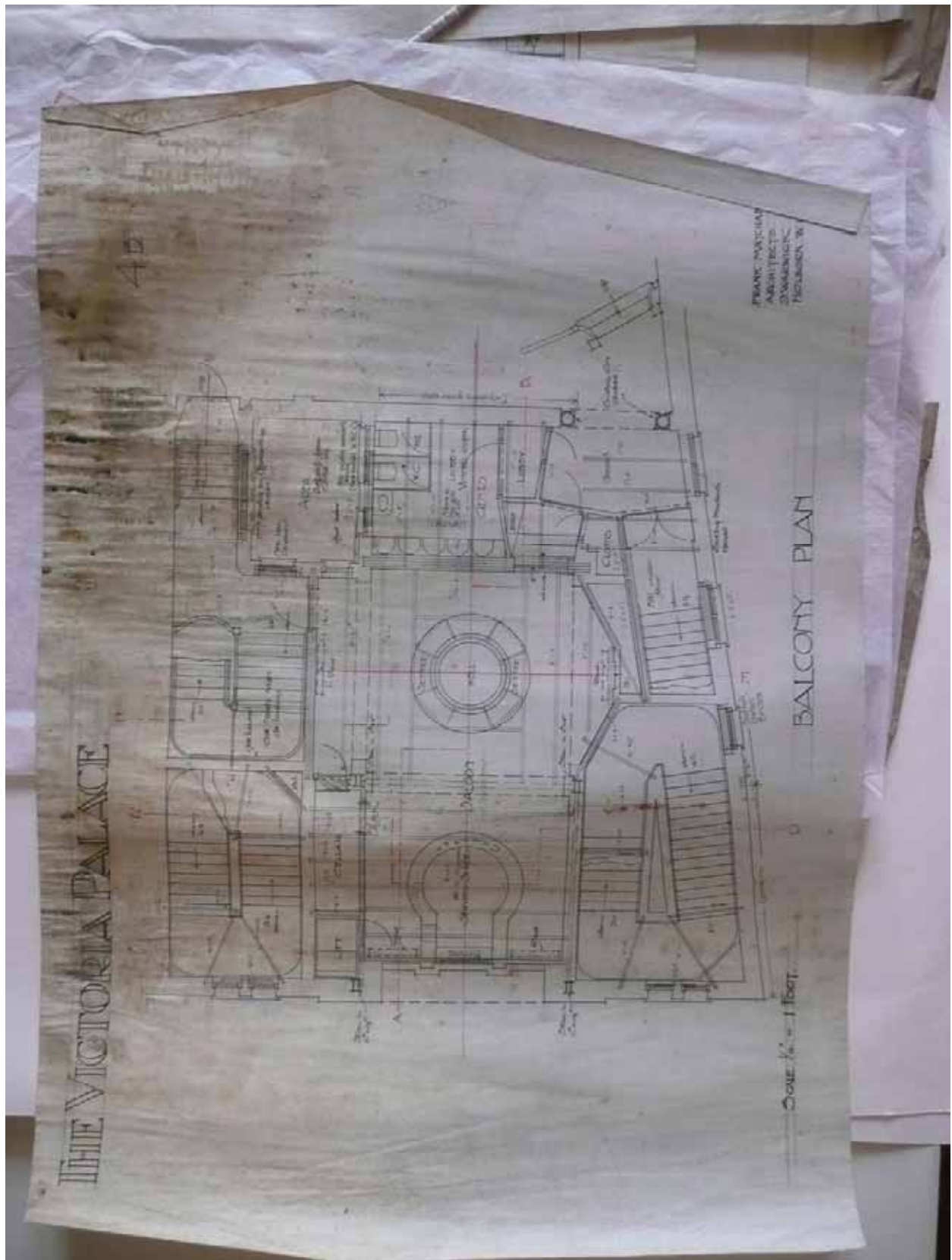


Photo B6

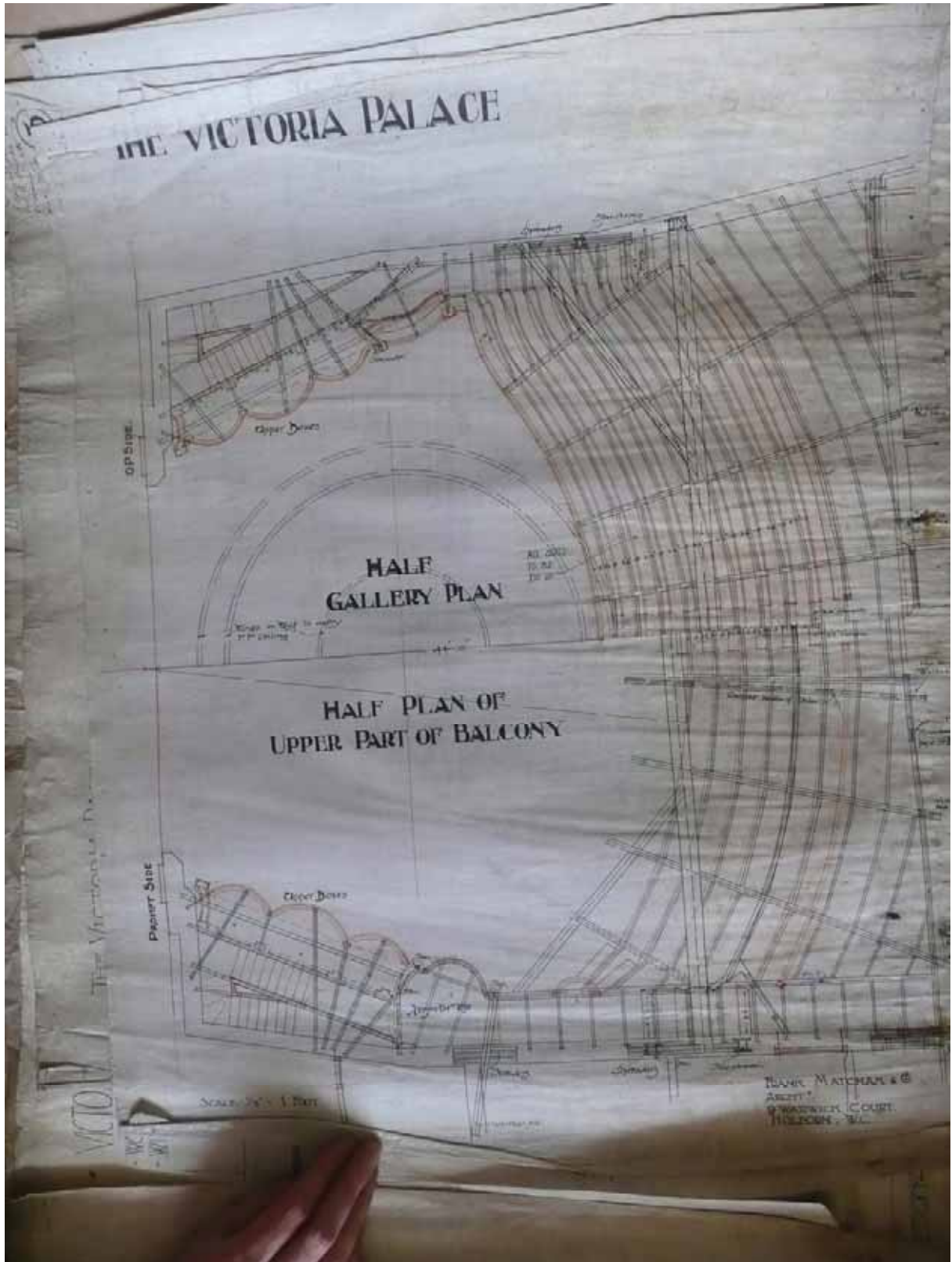


Photo B7

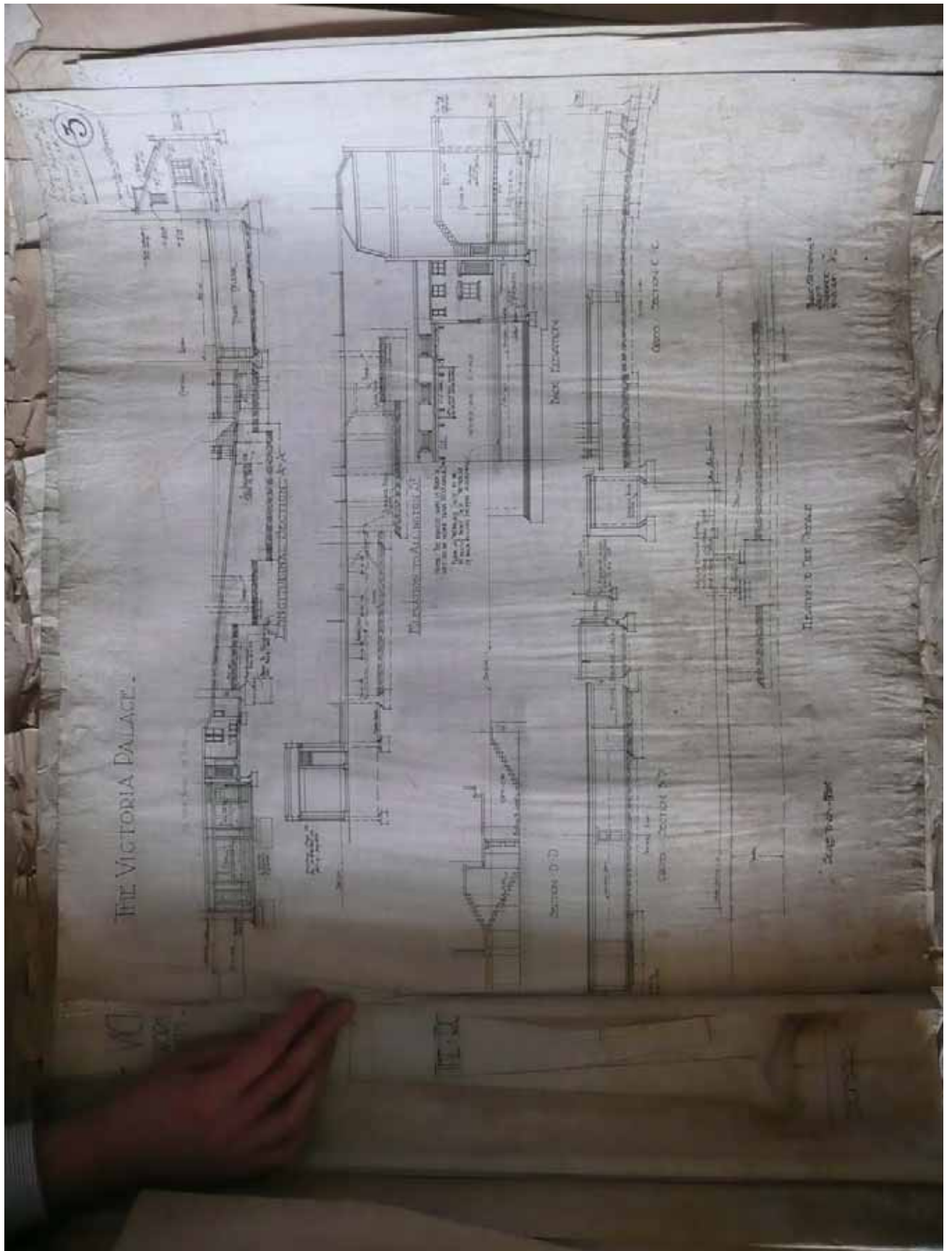


Photo B8

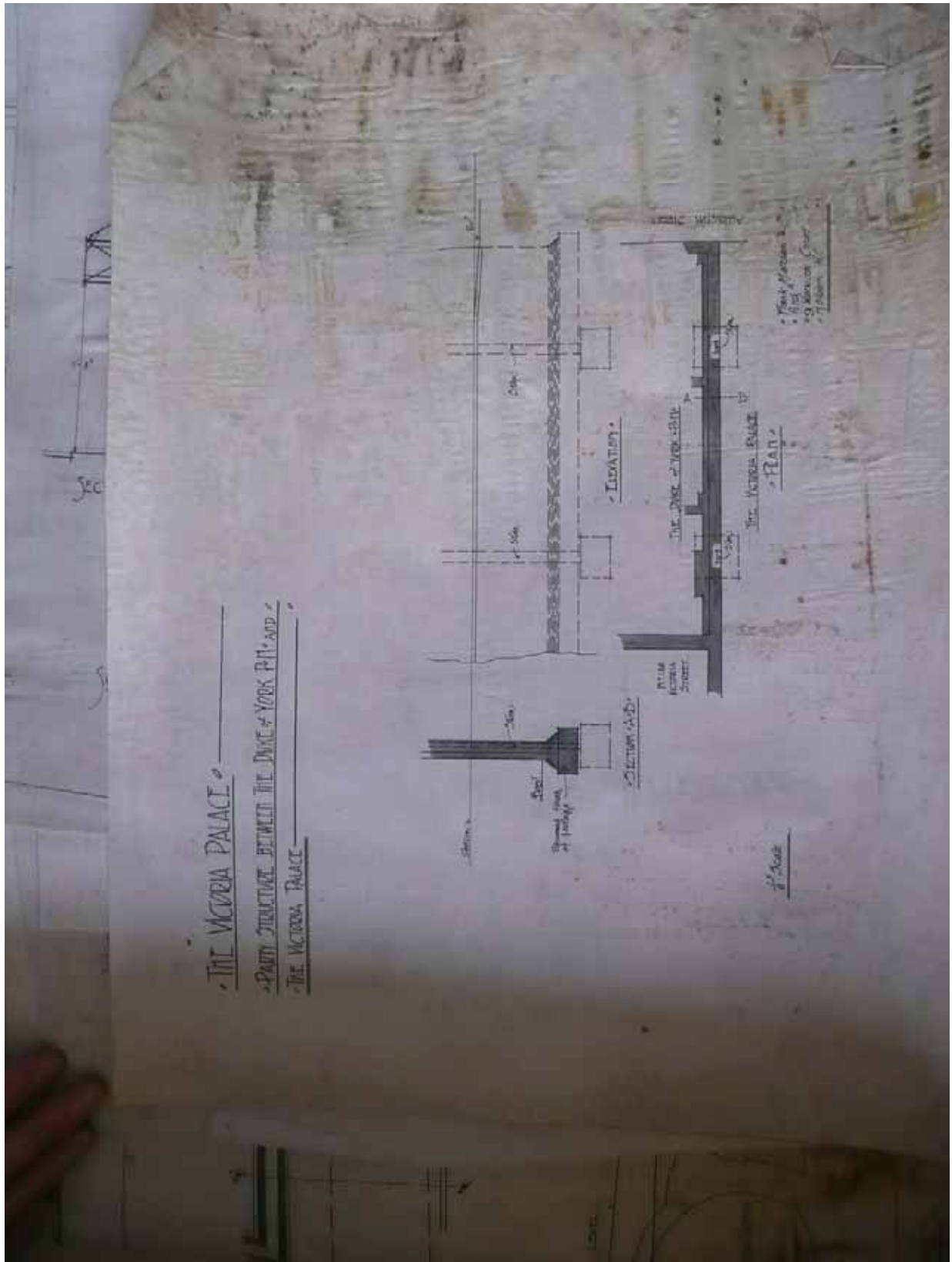


Photo B9

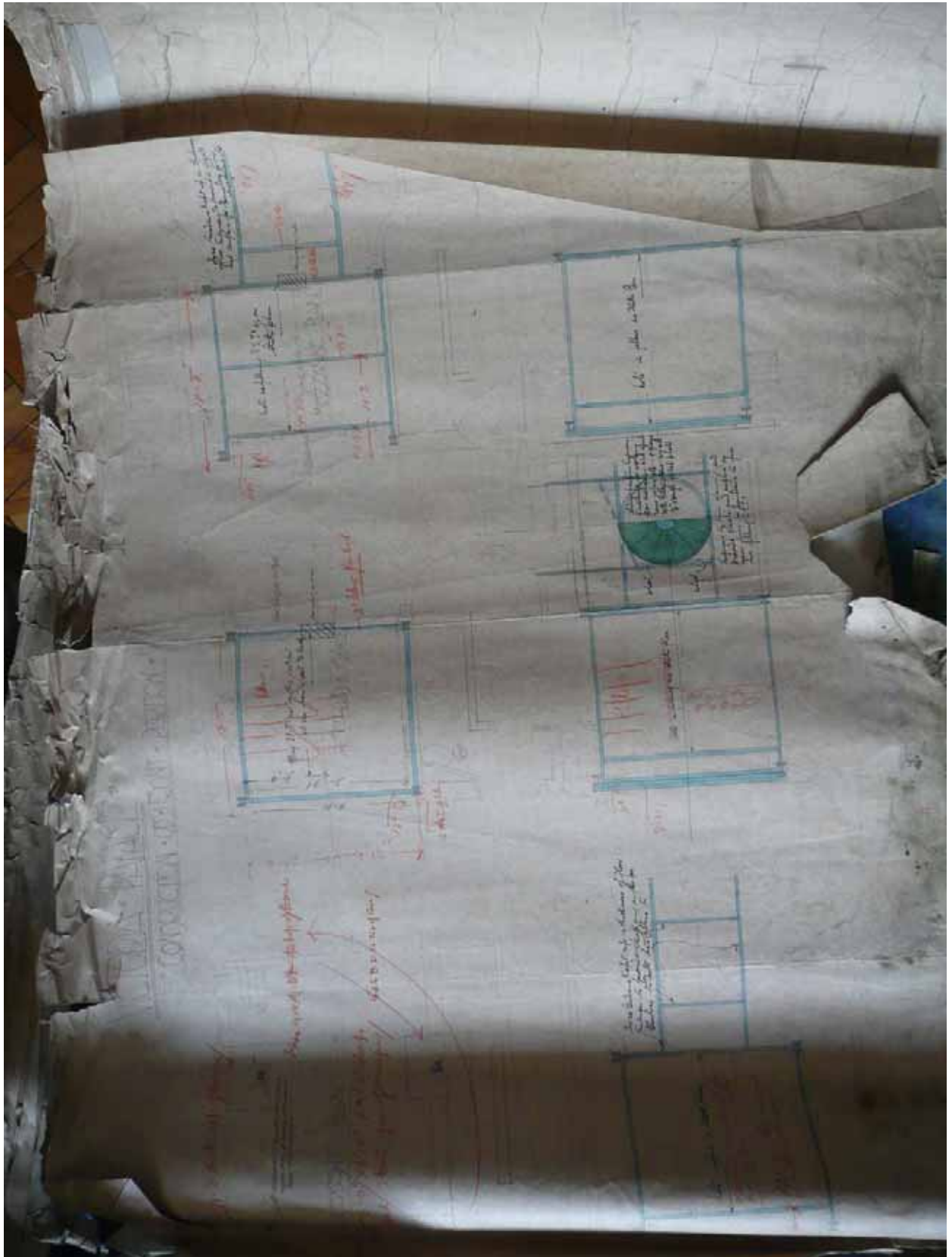


Photo B10



Photo B11

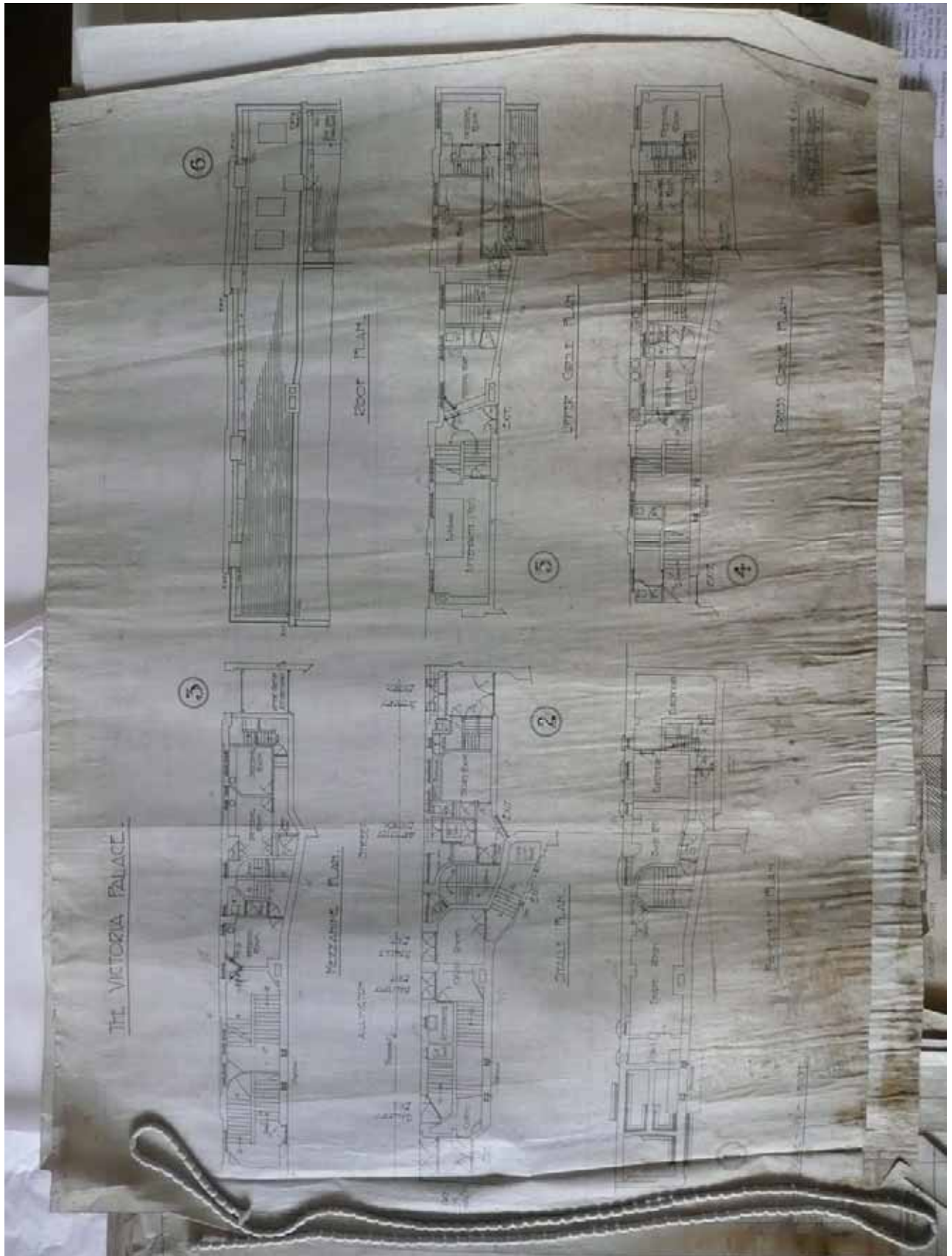
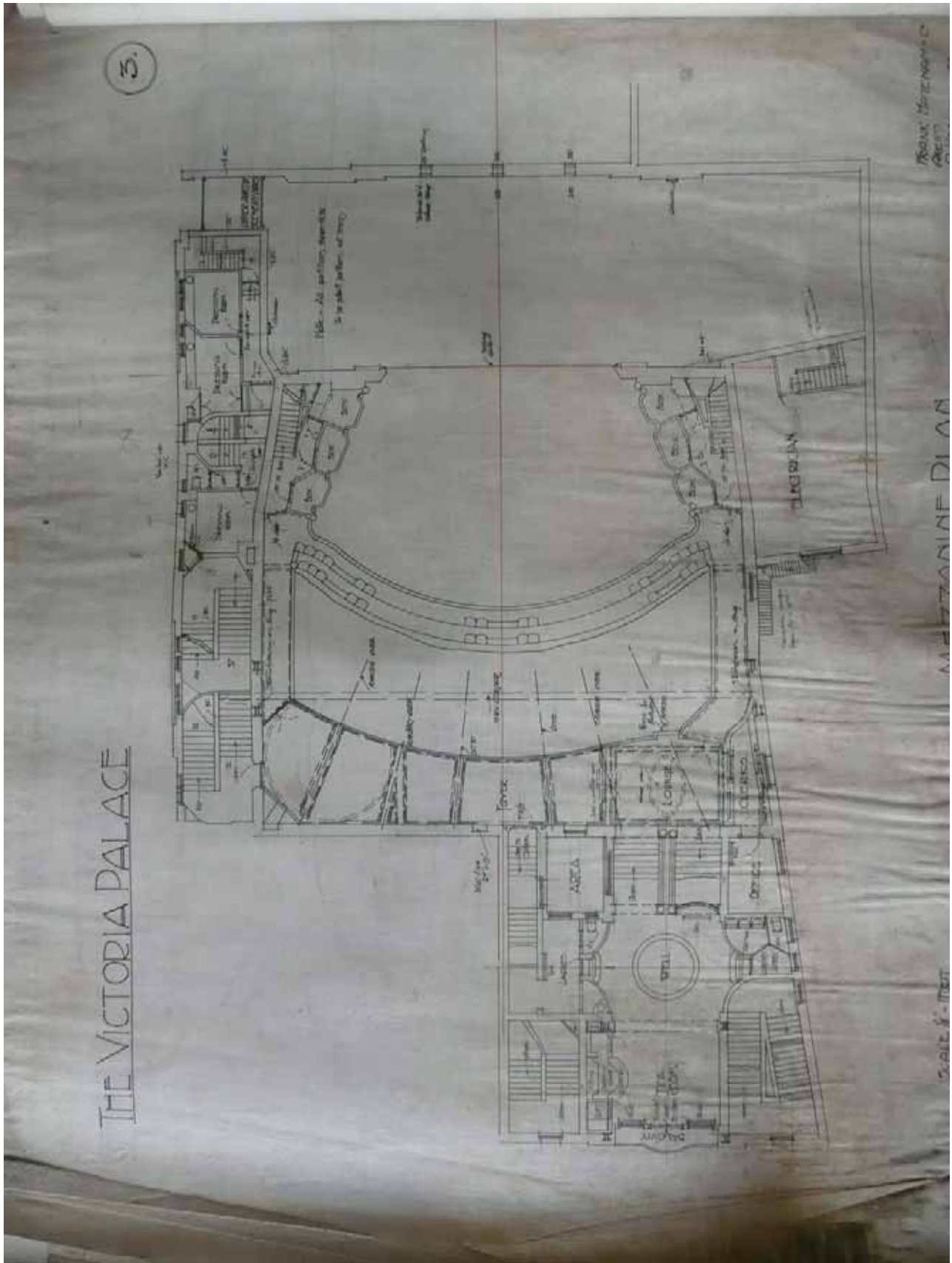


Photo B12



APPENDIX C

TECHNICAL INFORMATION
FOR APPRAISAL OF LOAD
TAKE DOWN TO
FOUNDATIONS

Technical information for appraisal of load take down to foundations

This appendix has been provided to help explain the process of load take down. "Load take down" is a structural term used to express how the loads on a building arrive at the foundation.

Loadings:

All buildings should be structurally designed and assessed in accordance with British Standards. Loadings are derived from BS6399 for each area of the building's use and are broken into four basic parts;

Imposed loads

Dead Loads

Wind loads

Snow loads

Imposed loads are taken from BS 6399-1: 1996 and are the loads imposed on the structure from its intended purpose.

Dead loads are taken from BS 648: 1964 and are the actual known weights of materials used for the structure, the fabric weight of the structure.

Wind loads are taken from BS 6399 -2: 1997 and are the loads imposed on the structure by the elements (wind) specific to its location.

Snow loads are taken from BS 6399-3: 1988 and are the loads imposed on the roof of structure by the elements (snow) specific to its location.

Load path:

All loads must terminate at terra firma, into the natural substrata. All substrata types have varying compressive load capacities and this must not be exceeded by loads applied by the foundations.

Once the loadings are established it is necessary to understand the construction methods used and the structure's support system, i.e. how the loads arrive at foundation level. On existing structures this is appraised by either record drawings showing structural members and foundation details and/or by survey and destructive investigation (removing finishes to expose structural elements).

Two basic assessments of load need to be confirmed as follows;

- uniformly distributed loads
- point loads

Uniformly distributed loads are those loads applied to their foundation evenly along the length of foundation such as structural walls.

Point loads are concentrated (usually heavy loads) in one specific location which generally requires a single localised foundation, such as below structural columns.

APPENDIX D

CAD DRAWINGS PRODUCED
FROM BLUE PRINTS OF
ORIGINAL STRUCTURAL
DRAWINGS

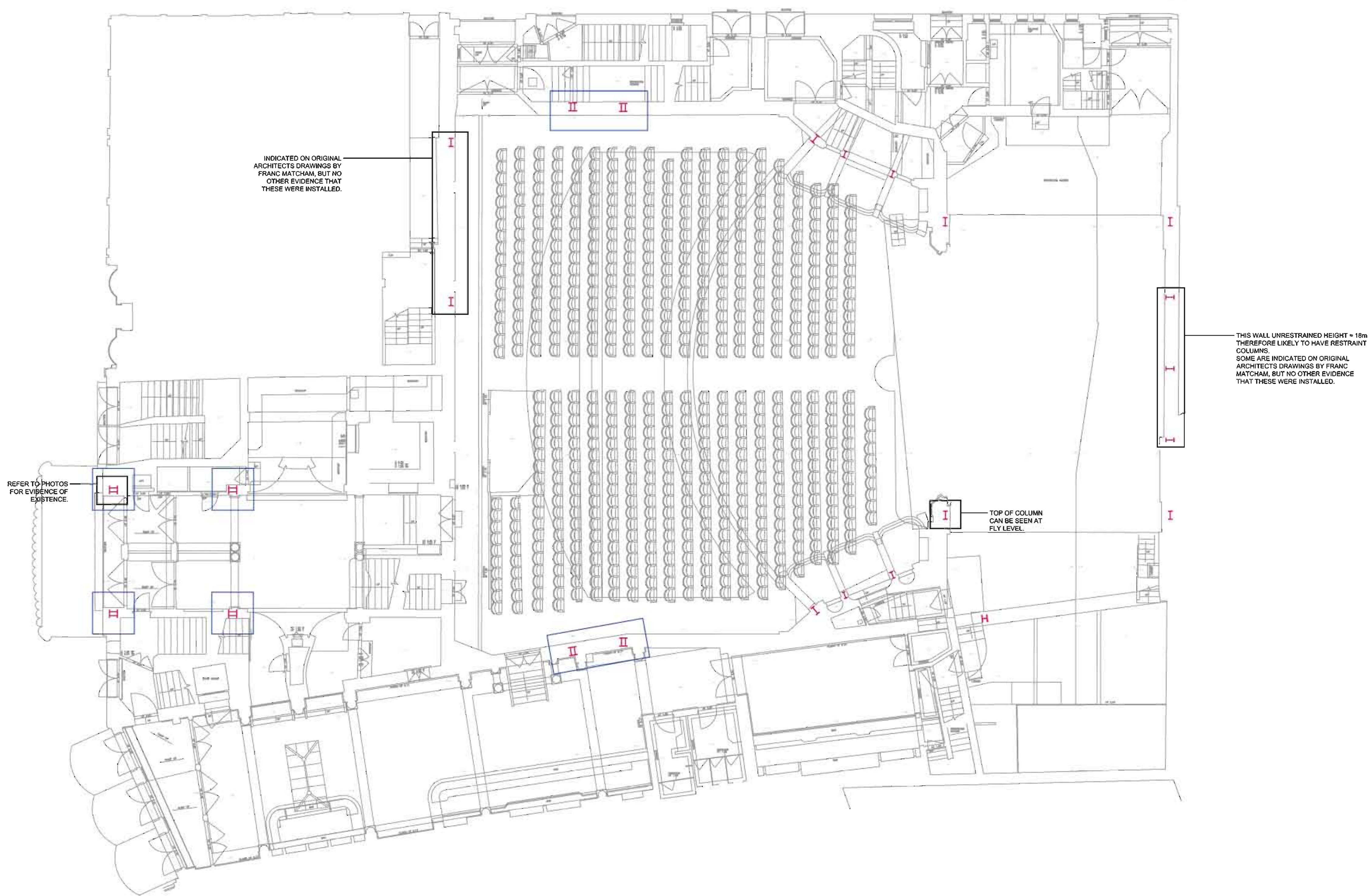
2902-103-P1 Ground floor plan showing locations of major stanchion locations

2902-105-P1 First floor plan showing locations of primary steelwork.

2902-106-P1 Second floor plan showing locations of primary steelwork.

2902-107-P1 Third floor plan showing locations of primary steelwork.

2902-108-P1 Roof plan showing locations of primary steelwork.



INDICATED ON ORIGINAL ARCHITECTS DRAWINGS BY FRANC MATCHAM, BUT NO OTHER EVIDENCE THAT THESE WERE INSTALLED.

REFER TO PHOTOS FOR EVIDENCE OF EXISTENCE.

THIS WALL UNRESTRAINED HEIGHT = 18m THEREFORE LIKELY TO HAVE RESTRAINT COLUMNS. SOME ARE INDICATED ON ORIGINAL ARCHITECTS DRAWINGS BY FRANC MATCHAM, BUT NO OTHER EVIDENCE THAT THESE WERE INSTALLED.


TOP OF COLUMN CAN BE SEEN AT FLY LEVEL.

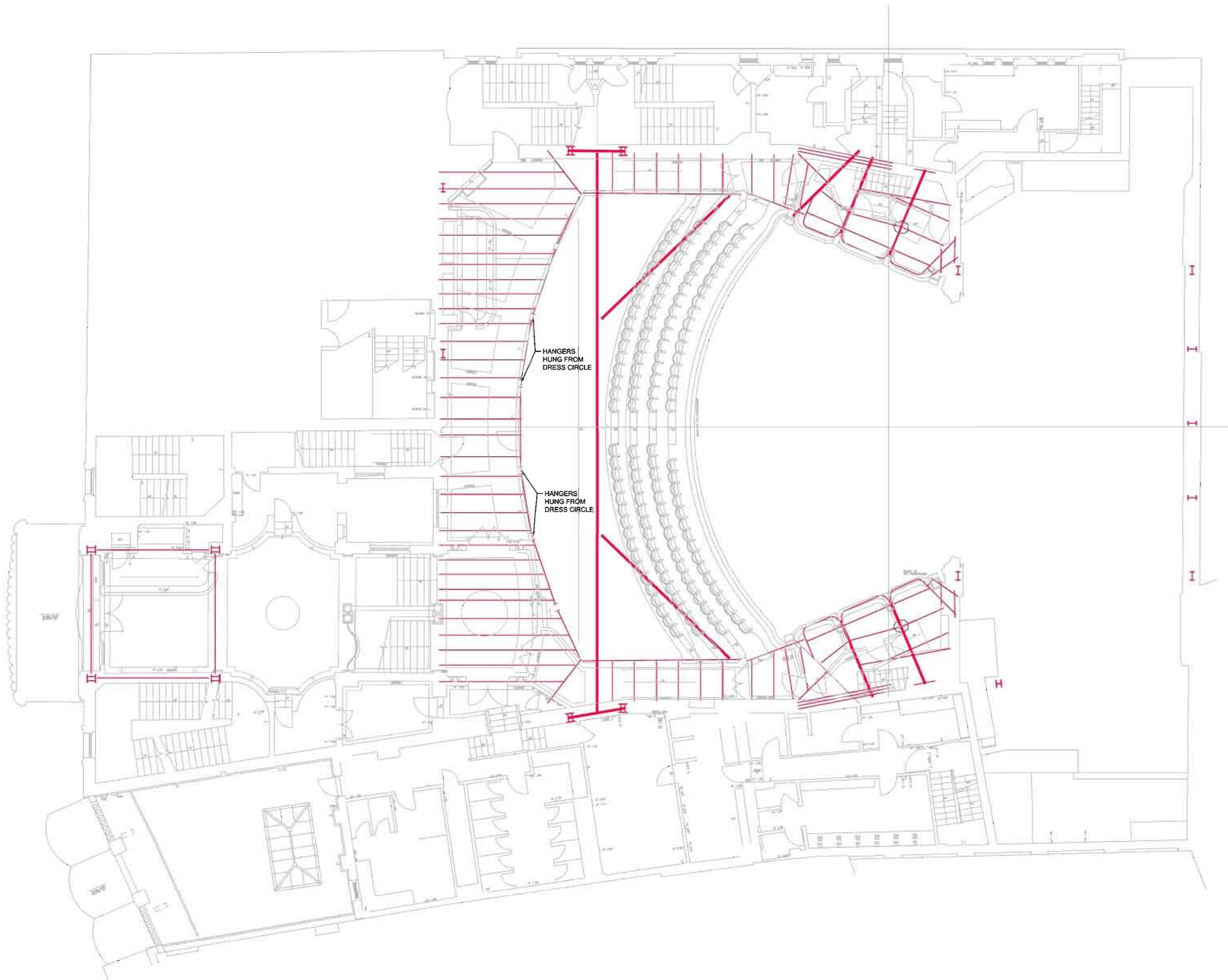
IMPORTANT NOTE:
THIS DRAWING IS INDICATIVE ONLY AND ONLY SHOWS PARTIAL STEELWORK LAYOUTS INDICATING MAJOR LOAD CONCENTRATIONS

EXISTING GROUND FLOOR PLAN

I = KNOWN COLUMN LOCATIONS FROM VISUAL INSPECTIONS AND/OR ORIGINAL BLUE PRINT CONSTRUCTION DRAWINGS.


H = KNOWN CONCRETE PAD LOCATIONS FROM ORIGINAL BLUE PRINT CONSTRUCTION DRAWINGS.

INITIAL ISSUE		LP	CDW	19.09.08
Rev.	Revisions	By	CHK	Date
Project VICTORIA PALACE THEATRE				
 Richard Hatton Associates Chartered Civil and Structural Engineers 3 Drapers Way Stevenage Herts SG1 3DT Telephone 01438 350933 Fax 01438 740297				
Contractor to check all dimensions on site. Do not scale. Report any discrepancies to Engineer immediately. Read in conjunction with all other relevant drawings and specifications. © This drawing is copyright. Do not reproduce in whole or part without written consent.				
Date	19/09/08	Scale	N/A	Job No.
Drawn	LP	Chkd	CDW	Original Size
			A1	2902
				103
				P1



PLAN - SHOWING FIRST FLOOR STEELWORK


IMPORTANT NOTE:
THIS DRAWING IS INDICATIVE
ONLY AND ONLY SHOWS
PARTIAL STEELWORK LAYOUTS
INDICATING MAJOR LOAD
CONCENTRATIONS

INITIAL ISSUE		???	???	??/??/??
Rev.	Revisions	By	Chk	Date
Project				
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Drawing Title				
FIRST FLOOR INDICATIVE STEELWORK LAYOUT		Contractor to check all dimensions on site. Do not scale. Report any discrepancies to Engineer immediately. Read in conjunction with all other relevant drawings and specifications. © This drawing is copyright. Do not reproduce in whole or part without written consent.		
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LP	N/A	2902	105	P1
Drawn	Chkd	Original Size		
LP	CDW	A1		

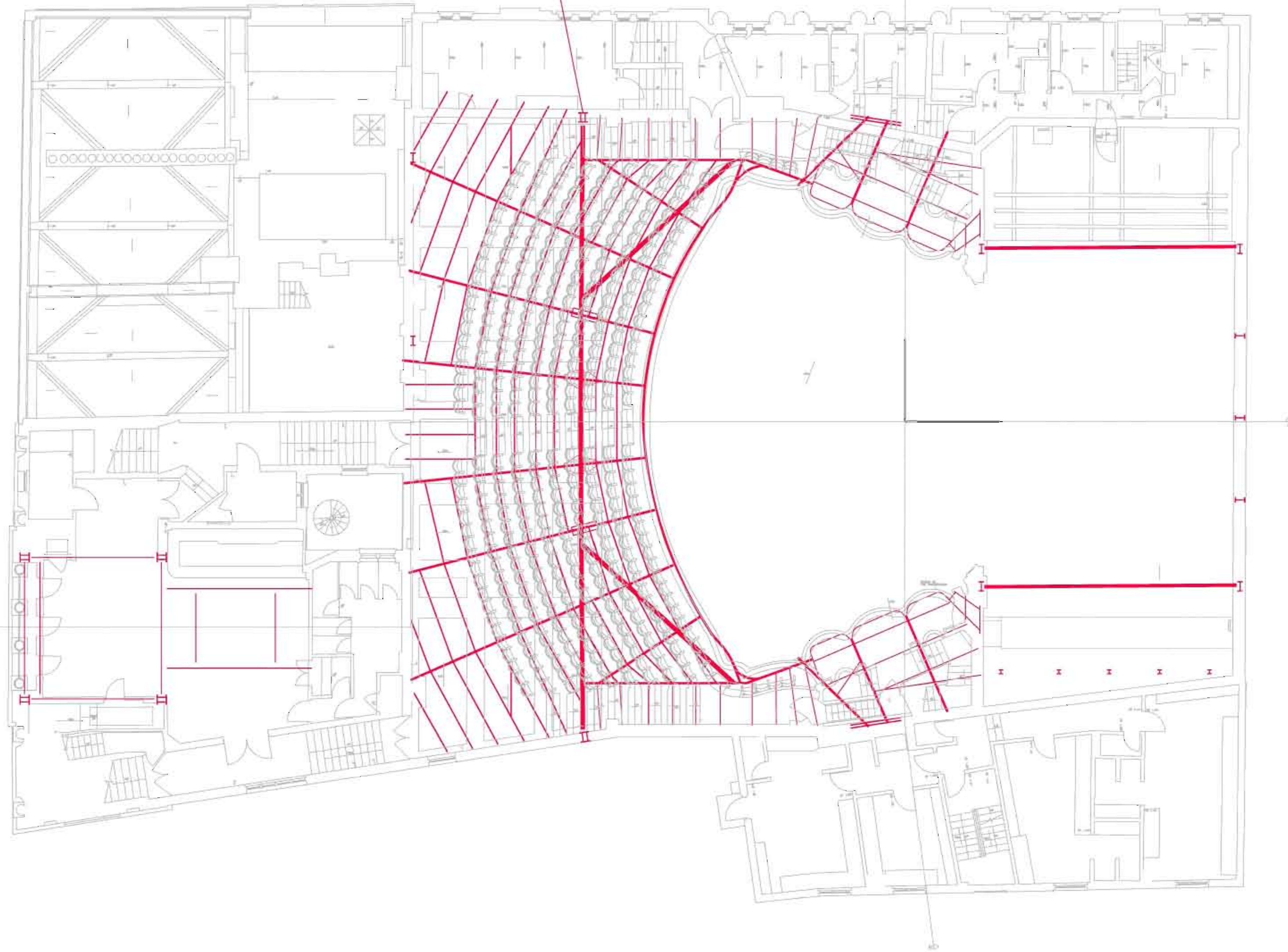


PLAN - SHOWING SECOND FLOOR STEELWORK

IMPORTANT NOTE:
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ONLY AND ONLY SHOWS
PARTIAL STEELWORK LAYOUTS
INDICATING MAJOR LOAD
CONCENTRATIONS


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Drawing Title				
SECOND FLOOR INDICATIVE STEELWORK LAYOUT		<small>Contractor to check all dimensions on site. Do not scale. Report any discrepancies to Engineer immediately. Read in conjunction with all other relevant drawings and specifications. © This drawing is copyright. Do not reproduce in whole or part without written consent.</small>		
Date	Scale	Job No.	Dwg No.	Rev
	N/A	2902	106	P1
Drawn	Chkd	Original Size		
LP	CDW	A1		

STANCHION SUPPORT ROOF
& UPPER CIRCLE SEE ALSO
DRG 106



IMPORTANT NOTE:
THIS DRAWING IS INDICATIVE
ONLY AND ONLY SHOWS
PARTIAL STEELWORK LAYOUTS
INDICATING MAJOR LOAD
CONCENTRATIONS

PLAN - SHOWING THIRD FLOOR STEELWORK

INITIAL ISSUE		???	???	??/??/??
Rev.	Revisions	By	Chk	Date
Project				
VICTORIA PALACE THEATRE				
Drawing Title				
THIRD FLOOR INDICATIVE STEELWORK LAYOUT				
 Richard Hatton Associates Chartered Civil and Structural Engineers 3 Drapers Way Stevenage Herts SG1 3DT Telephone 01438 350933 Fax 01438 740297				
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Date	Scale	Job No.	Dwg No.	Rev
LP	N/A	2902	107	P1
Drawn	Chkd	Original Size		
LP	CDW	A1		



PLAN - SHOWING ROOF STEELWORK

IMPORTANT NOTE:
 THIS DRAWING IS INDICATIVE
 ONLY AND ONLY SHOWS
 PARTIAL STEELWORK LAYOUTS
 INDICATING MAJOR LOAD
 CONCENTRATIONS

INITIAL ISSUE		???	???	??/??/??
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Project		VICTORIA PALACE THEATRE		
Drawing Title		RHA Richard Hatton Associates Chartered Civil and Structural Engineers 3 Drapers Way Stevenage Herts SG1 3DT Telephone 01438 350933 Fax 01438 740297		
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Date	Scale	Job No.	Dwg No.	Rev
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Drawn	Chkd	Original Size		
LP	CDW	A1		