



Terms and Conditions of Use of Digitised Theses from Trinity College Library Dublin

Copyright statement

All material supplied by Trinity College Library is protected by copyright (under the Copyright and Related Rights Act, 2000 as amended) and other relevant Intellectual Property Rights. By accessing and using a Digitised Thesis from Trinity College Library you acknowledge that all Intellectual Property Rights in any Works supplied are the sole and exclusive property of the copyright and/or other IPR holder. Specific copyright holders may not be explicitly identified. Use of materials from other sources within a thesis should not be construed as a claim over them.

A non-exclusive, non-transferable licence is hereby granted to those using or reproducing, in whole or in part, the material for valid purposes, providing the copyright owners are acknowledged using the normal conventions. Where specific permission to use material is required, this is identified and such permission must be sought from the copyright holder or agency cited.

Liability statement

By using a Digitised Thesis, I accept that Trinity College Dublin bears no legal responsibility for the accuracy, legality or comprehensiveness of materials contained within the thesis, and that Trinity College Dublin accepts no liability for indirect, consequential, or incidental, damages or losses arising from use of the thesis for whatever reason. Information located in a thesis may be subject to specific use constraints, details of which may not be explicitly described. It is the responsibility of potential and actual users to be aware of such constraints and to abide by them. By making use of material from a digitised thesis, you accept these copyright and disclaimer provisions. Where it is brought to the attention of Trinity College Library that there may be a breach of copyright or other restraint, it is the policy to withdraw or take down access to a thesis while the issue is being resolved.

Access Agreement

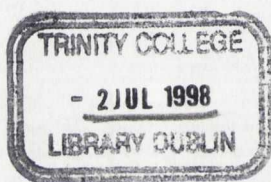
By using a Digitised Thesis from Trinity College Library you are bound by the following Terms & Conditions. Please read them carefully.

I have read and I understand the following statement: All material supplied via a Digitised Thesis from Trinity College Library is protected by copyright and other intellectual property rights, and duplication or sale of all or part of any of a thesis is not permitted, except that material may be duplicated by you for your research use or for educational purposes in electronic or print form providing the copyright owners are acknowledged using the normal conventions. You must obtain permission for any other use. Electronic or print copies may not be offered, whether for sale or otherwise to anyone. This copy has been supplied on the understanding that it is copyright material and that no quotation from the thesis may be published without proper acknowledgement.

**STUDIES IN EIGHTEENTH-CENTURY
BUILDING HISTORY**

**PH.D THESIS SUBMITTED TO
HISTORY OF ART DEPARTMENT
TRINITY COLLEGE DUBLIN**

DECEMBER 1997
VOLUME TWO ARTHUR GIBNEY



Thesis
4509. 2

CONTENTS

PAGE

Declaration	i
ILLUSTRATIONS	ii
NOTES	103
BIBLIOGRAPHY	146

DECLARATION

- (a) This thesis has not been previously submitted to any university for a degree.
- (b) This thesis is entirely my own work.
- (c) This thesis may be loaned or copied at the discretion of the University Library.



LIST OF ILLUSTRATIONS

Unless otherwise described drawings and photographs are by Arthur Gibney.

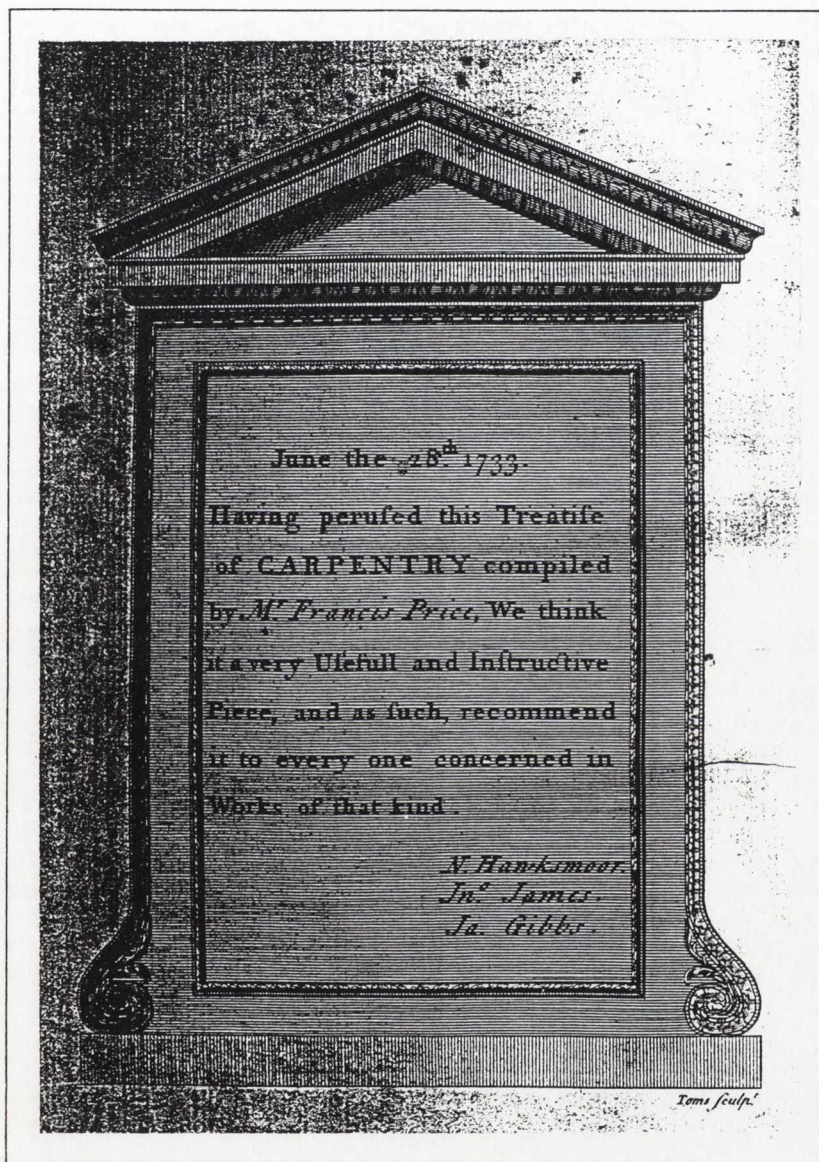
1. Francis Price: Frontispiece of *the British carpenter*, (Lon. 1733).
2. Francis Price: Elementary geometry for carpenters (*The British carpenter*, Lon. 1733).
3. Francis Price: Single and multiple post trusses (*The British carpenter*, Lon. 1733).
4. Francis Price: Trusses to suit different conditions (*The British carpenter*, Lon. 1733).
5. Francis Price: Hipped roof construction (*The British carpenter*, Lon. 1733).
6. Francis Price: Bevel roof construction, (*The British carpenter*, Lon. 1733) and Batty Langley, bevel roof construction. (*The builder's jewel*, Lon. 1741).
7. George Semple: Cross section of proposed Public Offices 1758 (Irish Architectural Archive).
8. Royal Hospital Kilmainham: Roof construction (Joseph McCullagh and Partners).
9. Drogheda Schoolmaster's House: Roof construction (Irish Architectural Archive).
10. Kilmacurragh, Co. Wicklow: Roof construction (survey, Charles Lyons).
11. Dr. Steevens' Hospital: Roof construction.
12. Thomas Hardwick: The Pantheon, Rome, cross section of portico, 1777 (David Yeomans, *The architect and the carpenter*, Lon. 1993).
13. Sir Robert Smirke, survey of truss in Wren's Sheldonian theatre, 1797, (David Yeomans, *The architect and the carpenter* Lon. 1993).
14. Andrea Palladio: Single and multiple-post trusses (*The four books of architecture*).
15. Andrea Palladio: Single and multiple-post trusses in bridge construction, (*The four books of architecture*).
16. Nicholas Hawksmoor: Roof truss proposed for All Saints College Oxford, 1716, (David Yeomans, *the architect and the carpenter*, Lon. 1993).
17. Edward Lovett Pearce: Roof construction of Parliament House Dublin, 1728, (Elton Hall collection).
18. Edward Lovett Pearce: Cross section through dome of Parliament House, Dublin 1728, (Elton Hall Collection).
19. George Semple: Cross section of St. Patrick's Hospital, 1749, (Irish Architectural Archive).
20. St. Mark's Church, Dublin: Bill of scantling for roof construction, (*Faulkner's Dublin Jour.* 22-25 Aug. 1752).
21. 10 South Frederick Street, Dublin: Cross section of cruciform roof.

22. 10 South Frederick Street, Dublin: Plan of roof (lower level) showing use of cross purlins between gables.
23. 10 South Frederick Street, Dublin: Plan of roof (upper level).
24. Roof construction of typical Irish provincial town house.
25. Charlemont House, Dublin: Use of trussed partitions by William Chambers, 1760.
26. James Gandon: Proposal for Carriglass, Co. Longford, c1790, showing dependence on trussed partitions.
27. Francis Price: English floor framing (*The British carpenter*, Lon. 1733).
28. Francis Price: Trussed girder (*The British carpenter*, Lon. 1733) and William Pain: Trussed girder (*The practical house carpenter*, Lon. 1794).
29. Floor framing in typical London house (Dan Cruikshank and Peter Wyld, London, *the art of Georgian building*, Lon. 1975).
30. Robert Mylne, Wormleybury, Hertfordshire: Plan of bedroom floor, 1767 (David Yeomans, *The architect and the carpenter* Lon. 1992).
31. Joints used in English floor framing (David Yeomans "Early carpenter's manuals 1592-1820" *Building History*, 2, Lon. 1986).
32. James Gandon: Floor framing proposed for domestic construction (Nat. Lib. Irl., architectural drawings AD. 3268).
33. Kilmacurragh Co. Wicklow: Survey of floor framing (survey drawing Charles Lyons).
34. Ledwithstown, Co. Longford: Floor construction.
35. 42 Upper O'Connell Street, (formerly Sackville Mall): Floor construction.
36. 40 Dominick Street: Floor construction.
37. 50 North Gt. George's St.: Floor construction.
38. Tudenham, Co. Westmeath: Survey showing floor construction.
39. Tudenham, Co. Westmeath: Use of long spanning joists.
40. Leinster House: Floor construction of Library.
41. 13 and 14 Henrietta St.: Floor construction.
42. William Pain: Design of timber doorcase (*The builder's companion*, Lon. 1758).
43. Michael Wills: Manuscript translation of Vitruvius's *De architectura*, (Christine Casey, "De architectura: An Irish gloss", *Arch. History*, 37 : 1994).
44. Title page of *The ruins of Palmyra*, by Robert Wood, with the signature Samuel Sproule (Nicholas Sheaff, "Irish architects and their books" in *Architect's Yearbook*, Dublin 1981).
45. Hampton Court Palace: Construction of sash windows at attic level (H. Louw "the origin of the sash window", *Jour. Soc. Arch. Hist.* 26, 1983).

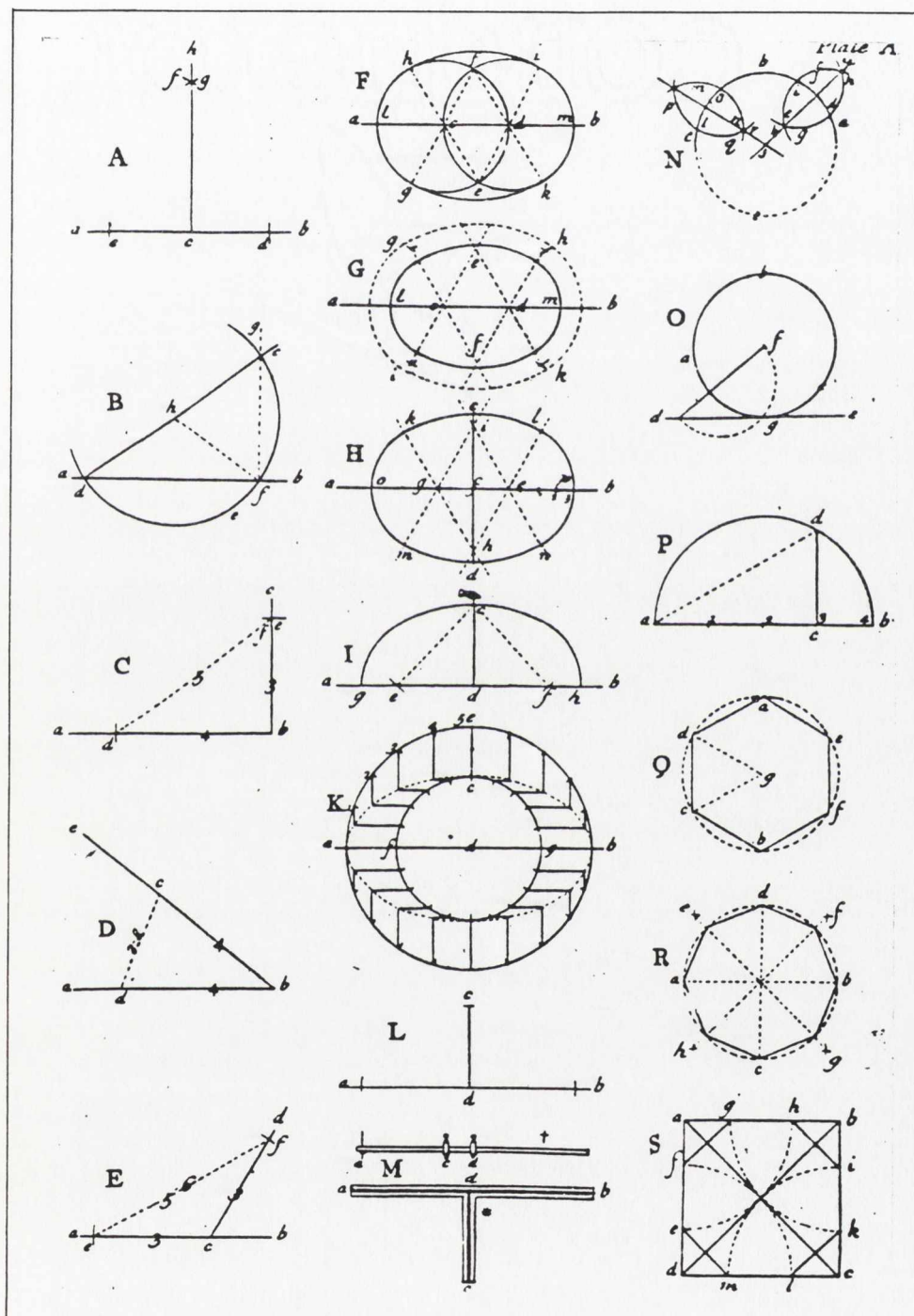
46. Survey of early eighteenth-century sash bars from Marsh's Library and Kilmacurragh, Co. Wicklow, c1700.
47. The sawyer, eighteenth-century engraving (Linda Clarke, *Building capitalism* Lon. 1992).
48. Drogheda Schoolmaster's House: Bill of scantling (Irish Architectural Archive).
49. Compound wall construction in Ballycowan Castle, Co. Offaly, 1626 and in Castlestrange, Co. Roscommon, 1740's.
50. James Gandon: Cross section of unidentified building showing compound wall of rubble stone with mortared core. (Nat. Lib. Irl. architectural drawings, AD 3219).
51. Compound Walls: Comparative cross sections showing medieval and eighteenth-century methods of construction.
52. Castlecoole, Co. Fermanagh, showing facades of dressed Portland stone ashlar, (Jacqueline O'Brien and Desmond Guinness, *Great Irish houses and castles*, Lon. 1992).
53. Goresgrove, Co. Kilkenny: The use of brick reveals at window opes and brick linings to limestone walls in mid eighteenth-century house.
54. Kilmacurragh, Co. Wicklow c1700 and Castlestrange, Co. Roscommon c1740: The use of compound walls with internal brick linings.
55. Bellamont Forest, Co. Cavan, c1730, Jacqueline O'Brien and Desmond Guinness, *Great Irish houses and castles*, Lon. 1992).
56. Mount lever s Court, Co. Clare, 1730's: The use of imported brick facings.
57. Dublin Castle: Eighteenth-century brick facings.
58. Beaulieu, Co. Louth: The use of rubbed brick reveals and moulded brick entablature, c1722.
59. Castle Durrow, Co. Leix, 1716, showing provincial use of coursed ashlar of considerable irregularity.
60. The Bishop's Palace, Limerick, showing early eighteenth-century limestone facings of considerable irregularity.
61. The Bishop's Palace, Limerick and the Limerick Custom House (1760's) compared.
62. Dr. Steevens' Hospital: The courtyard showing calpstone arcades built by the Dublin stonecutter Moses Darley in 1720.
63. The Parliament House, Dublin showing the royal arms and Ionic capitals carved by John Houghton in the 1730's.
64. Trinity College Dublin: West front (1756) showing Rococo garlands in Portland stone carved by James Robinson in 1756.
65. The Tailors' Hall, Dublin 1704: Early eighteenth-century brick facings.
66. Eyrecourt Co. Galway, showing extensive use of massive structural timbers.

67. Dr. Steevens' Hospital: Compound wall with rubble stone facings and internal linings.
68. Garretstown, Co. Cork (1740's) showing the use of brick linings to accommodate joists, and rubble stone linings where joist supports were not required.
69. Charlesfort Kinsale (1750) and Tyrone House, Co. Galway (1770's) showing joist pockets constructed with bricks in stone walling.
70. St. Nicholas Within, Dublin 1707: Internal wall lining of local calp rubble.
71. Marsh's Library, Dublin c1700, showing use of gauged (flat) arches with rubbed bricks.
72. Askeaton Castle, Co. Limerick, showing seventeenth-century use of moulded bricks and brick reveals.
73. Cashel Palace: Front facade c1730.
74. Ballyhaise, Co. Cavan, 1740's.
75. St. Nicholas Within, Dublin 1707: Front facade of dressed calp ashlar and compound walls of calp rubble.
76. St. Patrick's Hospital, 1749: Coursed rubble walling with roughly dressed coigns forming corners at basement level.
77. Surviving fragment of an Imperial Roman compound wall in the Roman Forum and a mid eighteenth-century use of compound walls with brick internal linings at Castlestrange, Co. Roscommon.
78. Buncrana Castle, Co. Donegal, 1718: Walling constructed with shale quarried in the vicinity of the site.
79. The use of locally quarried sandstone both as dressings and rubble facings in the early eighteenth-century Damer House, Roscrea.
80. The use of locally quarried limestone both as dressings and rubble facings in the Bishop's Palace at Elphin, 1747.
81. The Main Guard, Clonmel: The combination of sandstone ashlar and limestone entablature.
82. Courthouse Clonmel, 1799: The combination of sandstone engaged columns and limestone capitals.
83. Trinity College Dublin: The front facade of the Provost's House built c1760 with facings of Ardbracen limestone.
84. Trinity College Dublin: The ground floor of Burgh's Library showing the use of "cutting" calp quarried at Palmerstown, Co. Dublin, in 1712.
85. Dr. Steevens' Hospital: The courtyard arcades showing the use of "cutting" calp quarried at Palmerstown, Co. Dublin, in 1720.
86. Parliament House Dublin, 1730: The combination of granite ashlar and Portland stone entablature.
87. Royal Hospital Kilmainham: Principal entrance portico showing use of Portland stone pilasters with carved timber Corinthian capitals, (Jacqueline O' Brien and Desmond Guinness, *Dublin a grand tour*, Lon. 1994).

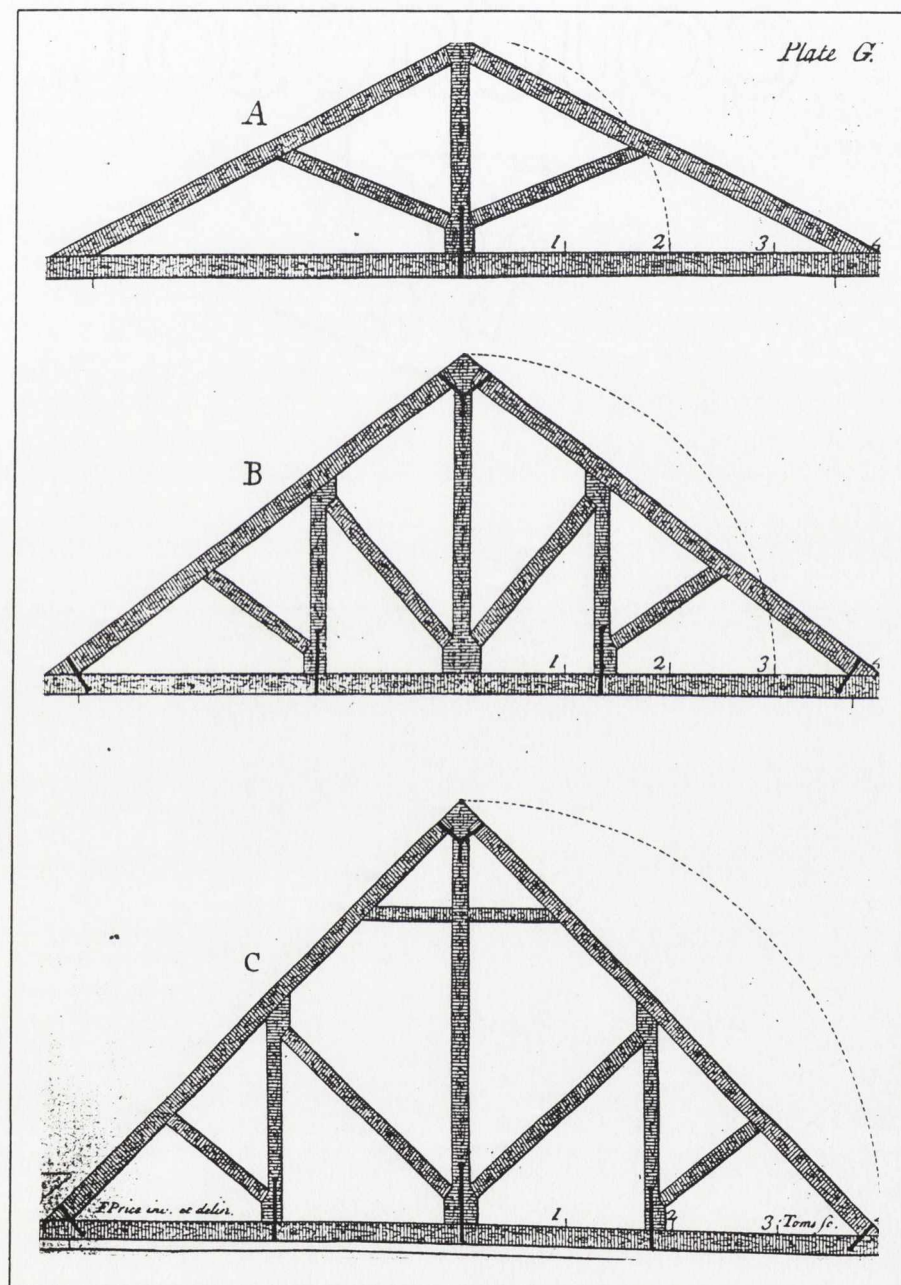
88. Trinity College, Dublin: Corinthian capitals carved by James Robinson c1756.
89. Royal Exchange, Dublin, 1770's: Facade in Portland stone.
90. Newcomen's Bank, 1780's: Facade in Portland stone.
91. St. Werburgh's church, Dublin 1715: Facade in sandstone.
92. The plumber, eighteenth-century engraving (Linda Clarke, *Building capitalism*, Lon. 1992).
93. Batty Langley: Roof trusses related to different roofing materials (*The city and country builder's and workman's treasury of designs*, Lon. 1741).
94. St. Paul's, Covent Garden, London, 1631, (John Harris and Gordon Higgat, *Inigo Jones, complete architectural drawings*, Lon. 1989).
95. Survey of roof trusses used at Castletown, Co. Kildare, 1725 (Office of Public Works, Dublin).
96. The Earl of Burlington's house at Chiswick, 1726.
97. The Dining Hall, Trinity College Dublin, 1744, (Michael Craig).
98. Elevation of General Wade's house, London, 1723, (Rudolf Wittkover, *Palladio and English Palladianism*, Lon. 1974).
99. The Provost's House at Trinity College, Dublin, 1759, (Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1974).
100. James Malton: The Tholsel, Dublin (*A picturesque and descriptive view of the city of Dublin*, Lon. 1792-99).
101. The Greencoat School, Cork 1715, (*Pietas Corcagiensis*, Cork 1721).
102. The Library, Trinity College, Dublin: Early eighteenth-century sash window.
103. Tyrone House, Dublin, Elevation of front facade (Robert Pool and James Cash, *Views of the most remarkable buildings in Dublin*, Dub. 1780).
104. Leinster House, Dublin: Elevation of front facade (Robert Pool and James Cash, *Views of the most remarkable buildings in Dublin*, Dub. 1780).
105. James Malton: Views from Capel Street (*A picturesque and descriptive view of the city of Dublin*, Lon. 1792-99).



Carpenter s' Manuals fig. 1
The frontispiece of Francis Price's
*The British carpenter, a treatise on
carpentry, 1733.*

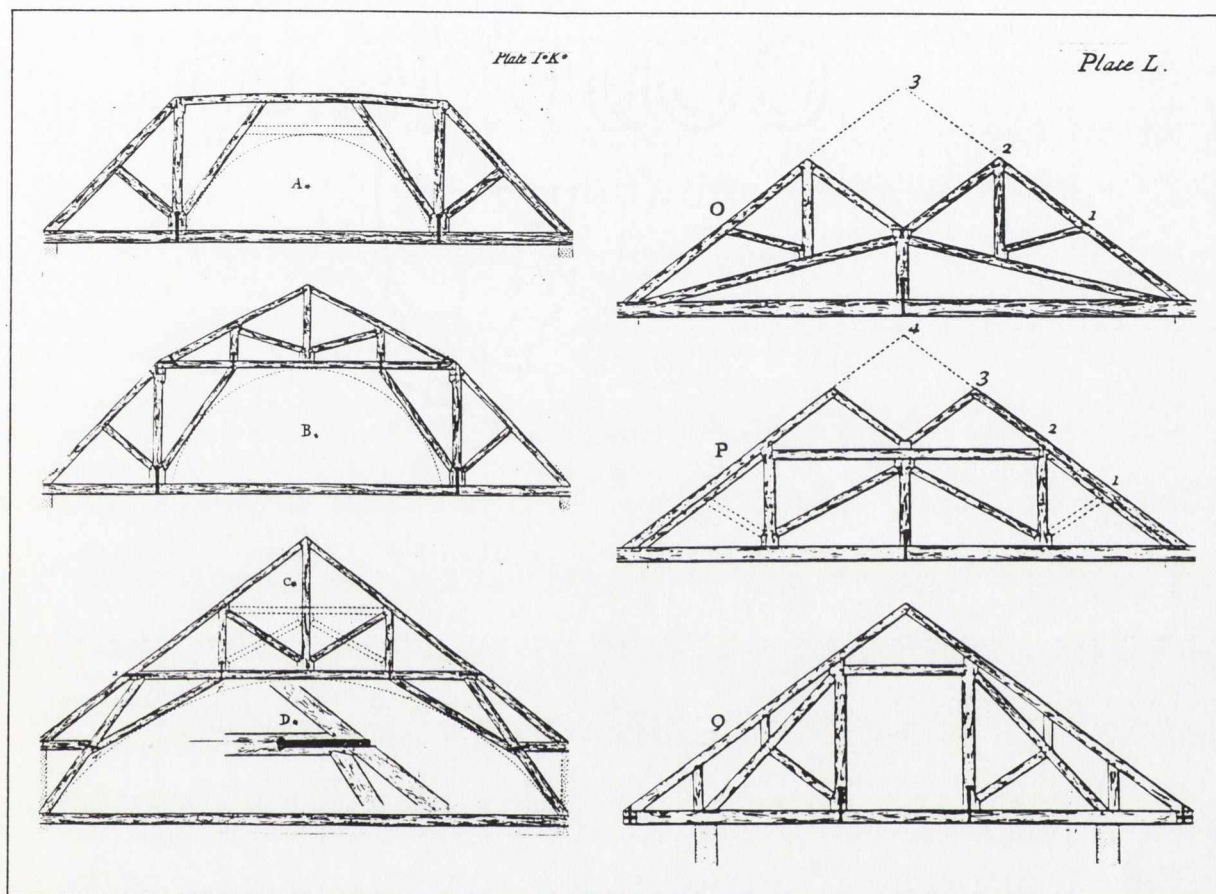


Carpenter's Manuals fig. 2
 Illustration of elementary geometry
 from Francis Price, 1733.

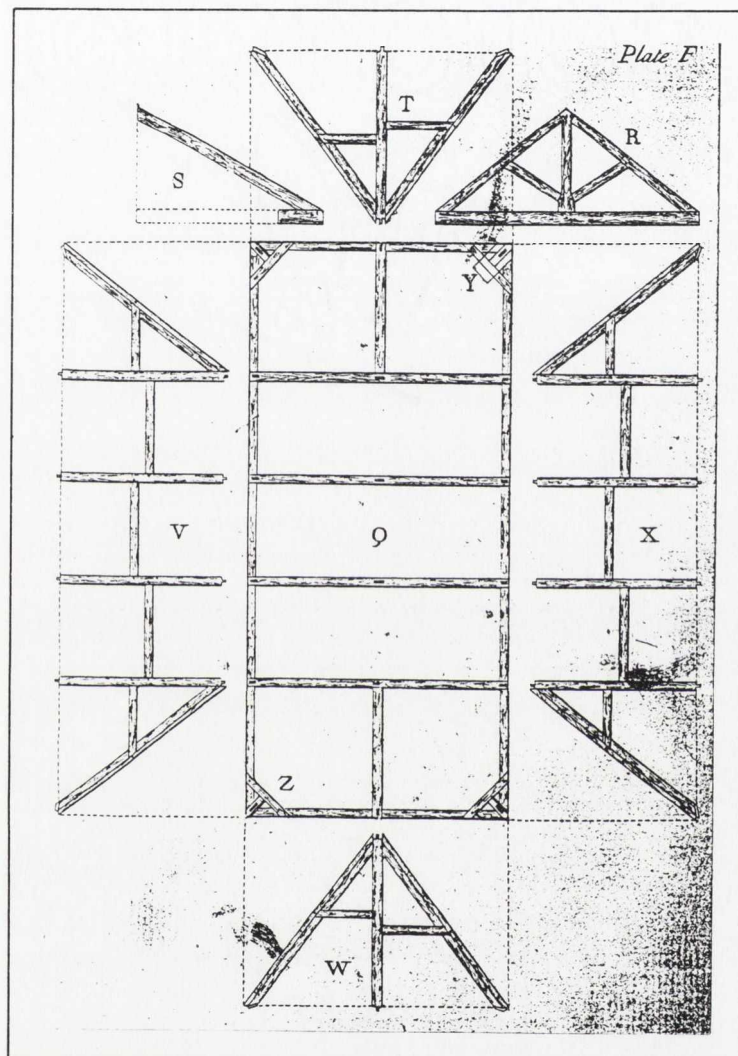


Carpenter's Manuals
Illustration of single and multiple post
trusses by Francis Price, 1733.

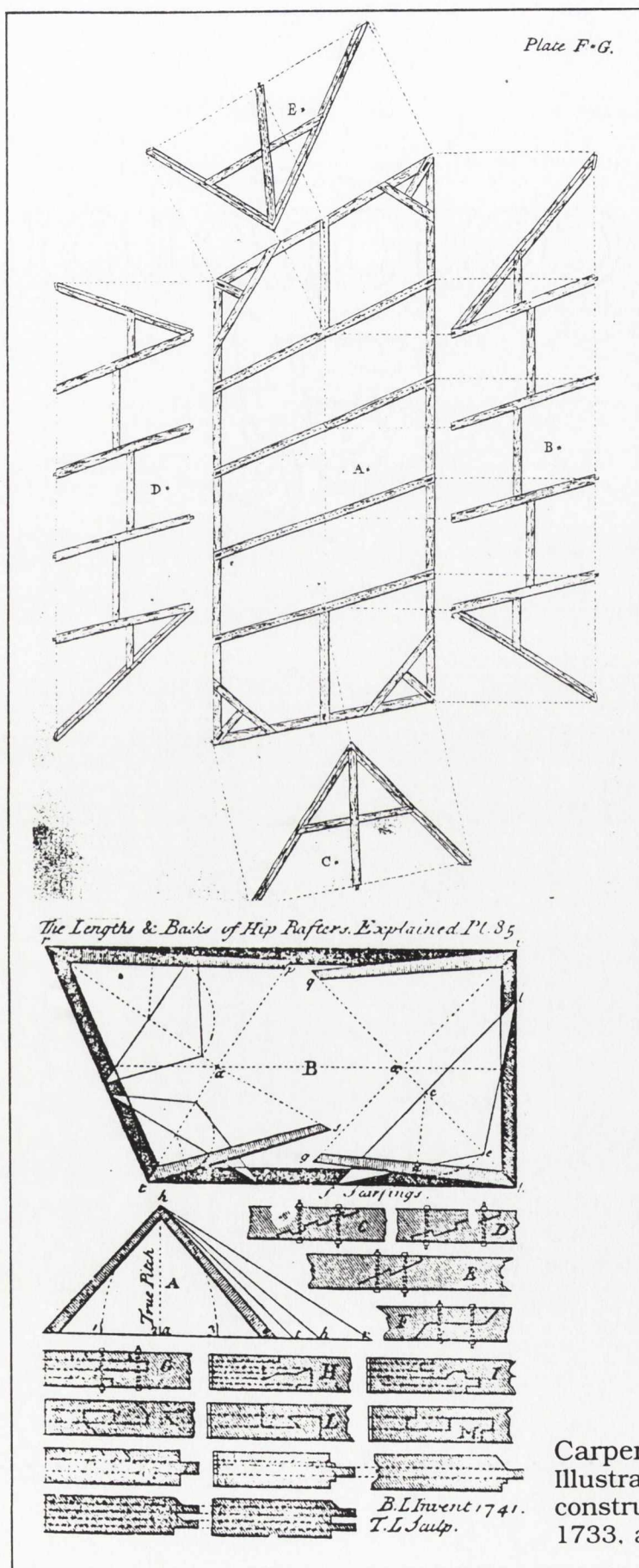
fig. 3



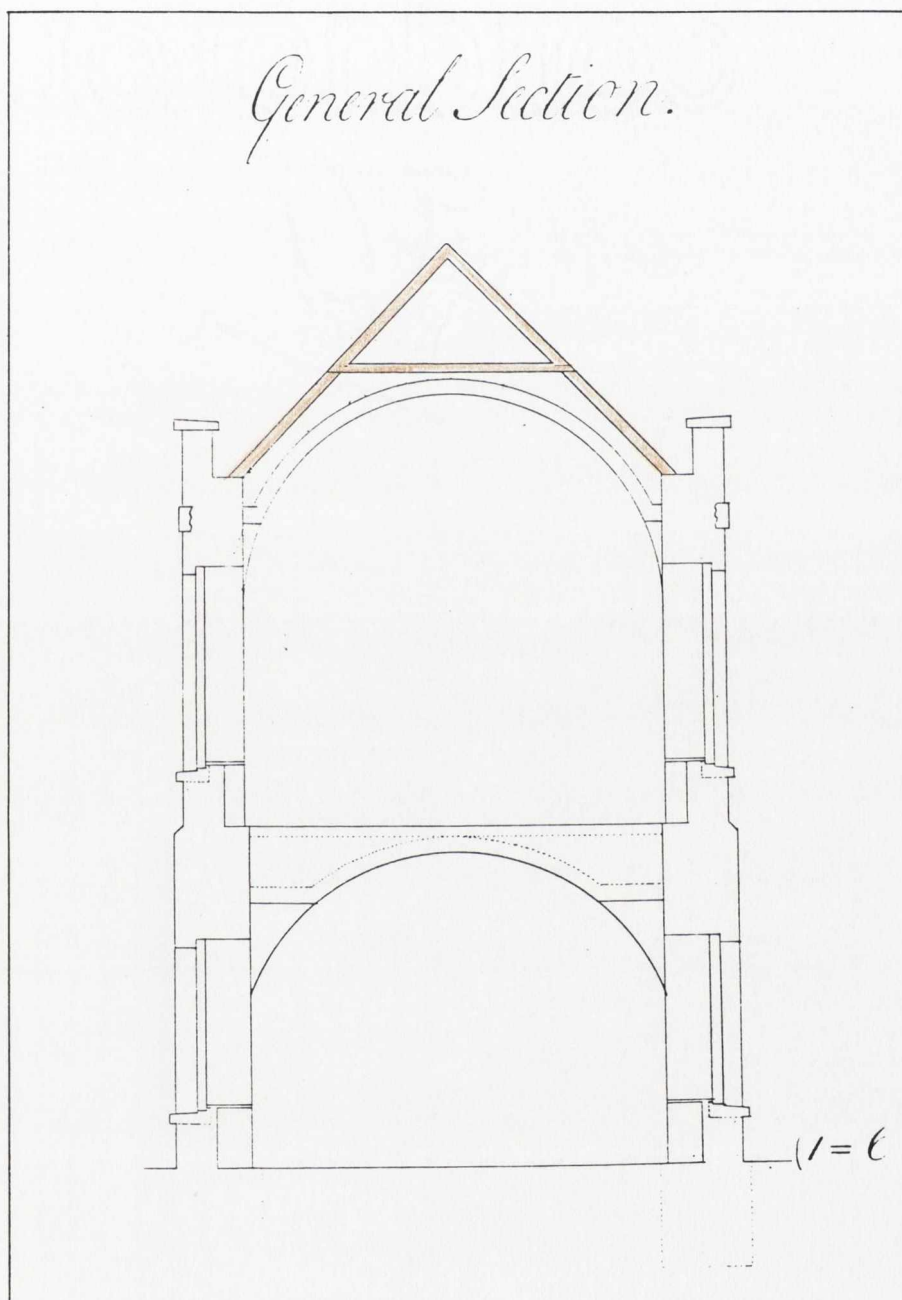
Carpenter's Manuals Fig. 4
 Illustrations of trusses to suit
 different roof conditions from
 Francis Price, 1733.



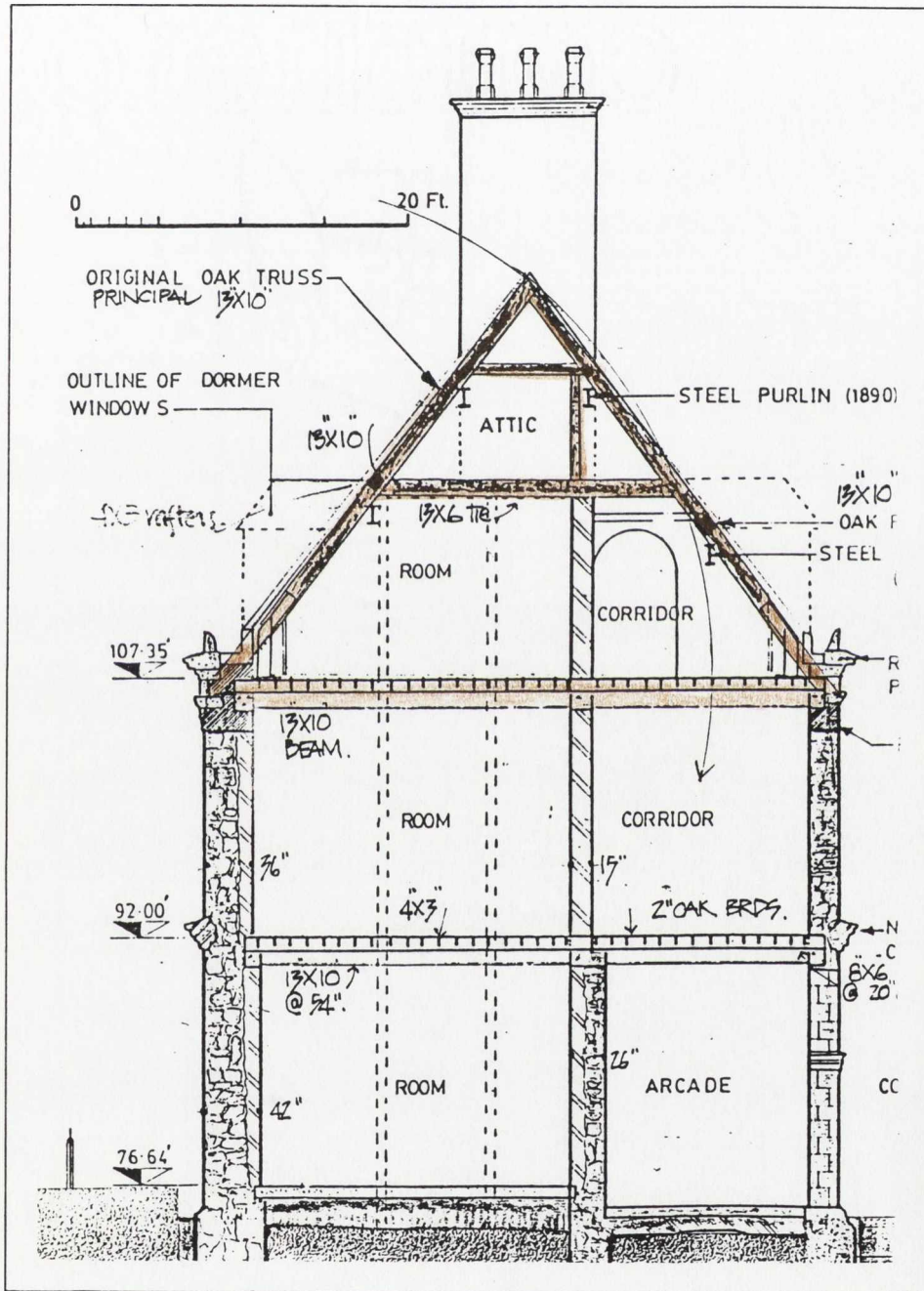
Carpenter's Manuals fig. 5
 Illustration of construction of
 hipped roof from Francis Price,
 1733.



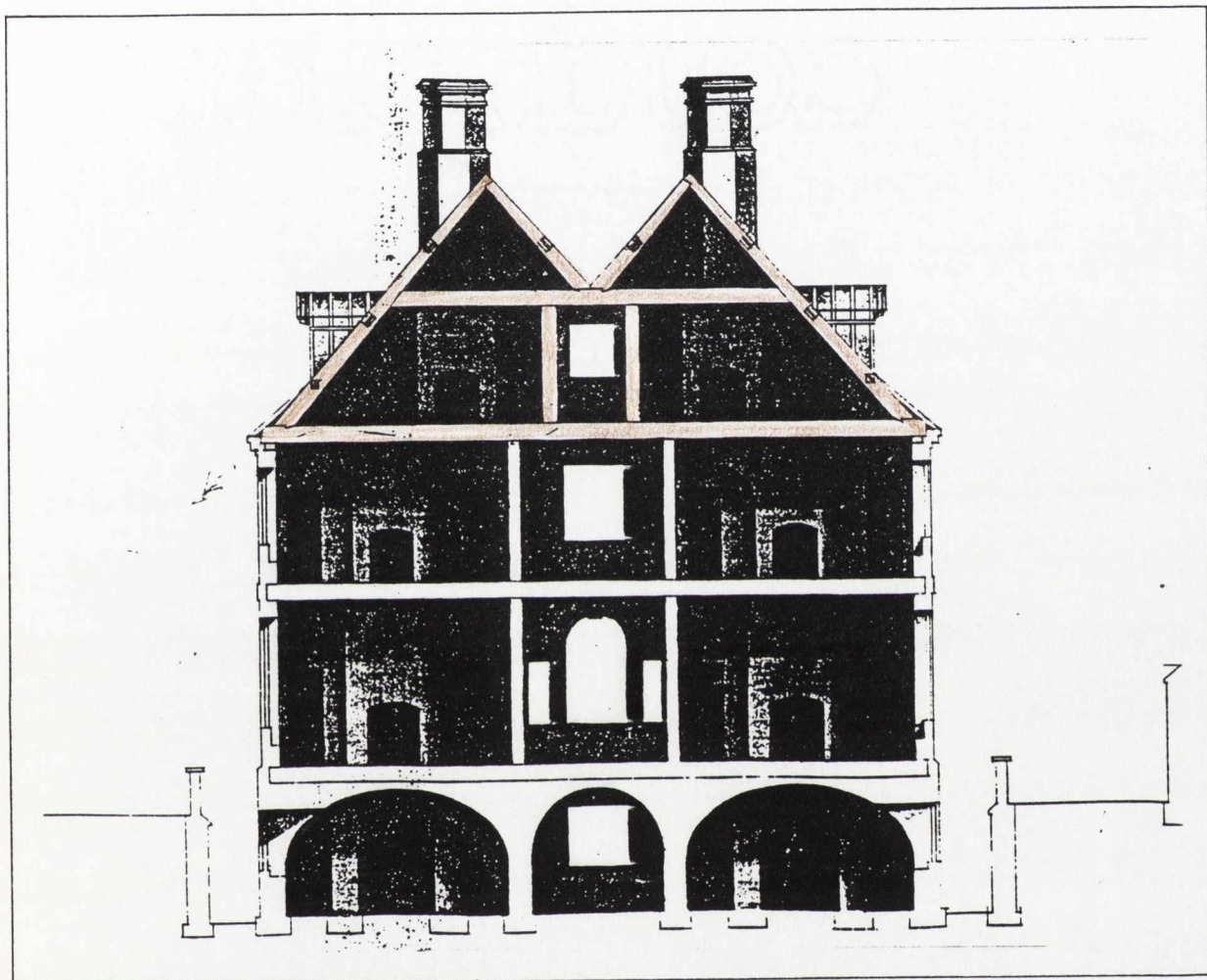
Carpenters' Manuals fig.6
 Illustration of bevel roof
 construction from Francis Price,
 1733, and Batty Langley, 1741.



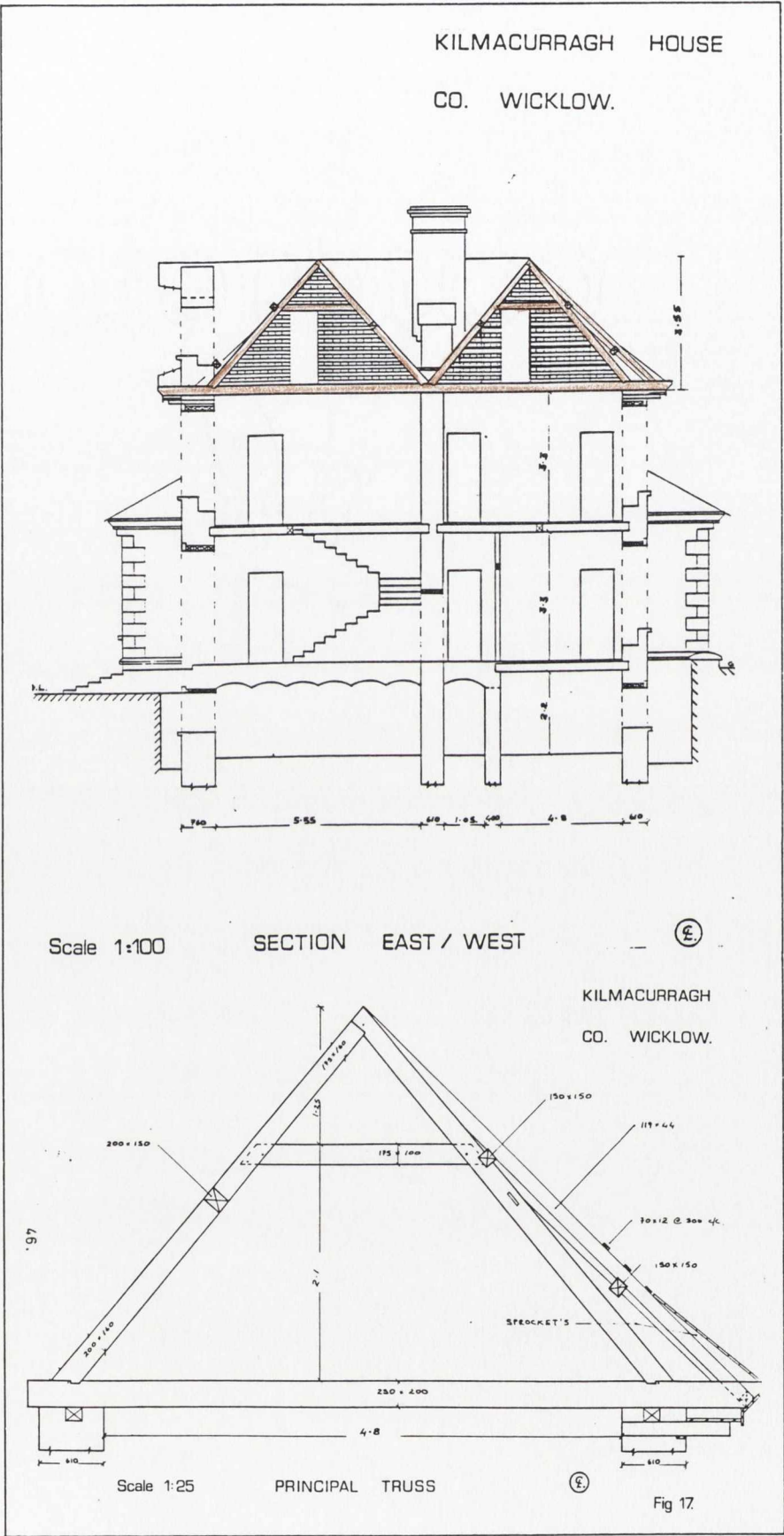
Irish Roof Construction fig.7
 Simple traditional collar-truss
 proposed by George Semple in 1758.



Irish Roof Construction fig. 8
Section through the Royal Hospital
Kilmainham showing original oak
roof-truss, 1685.

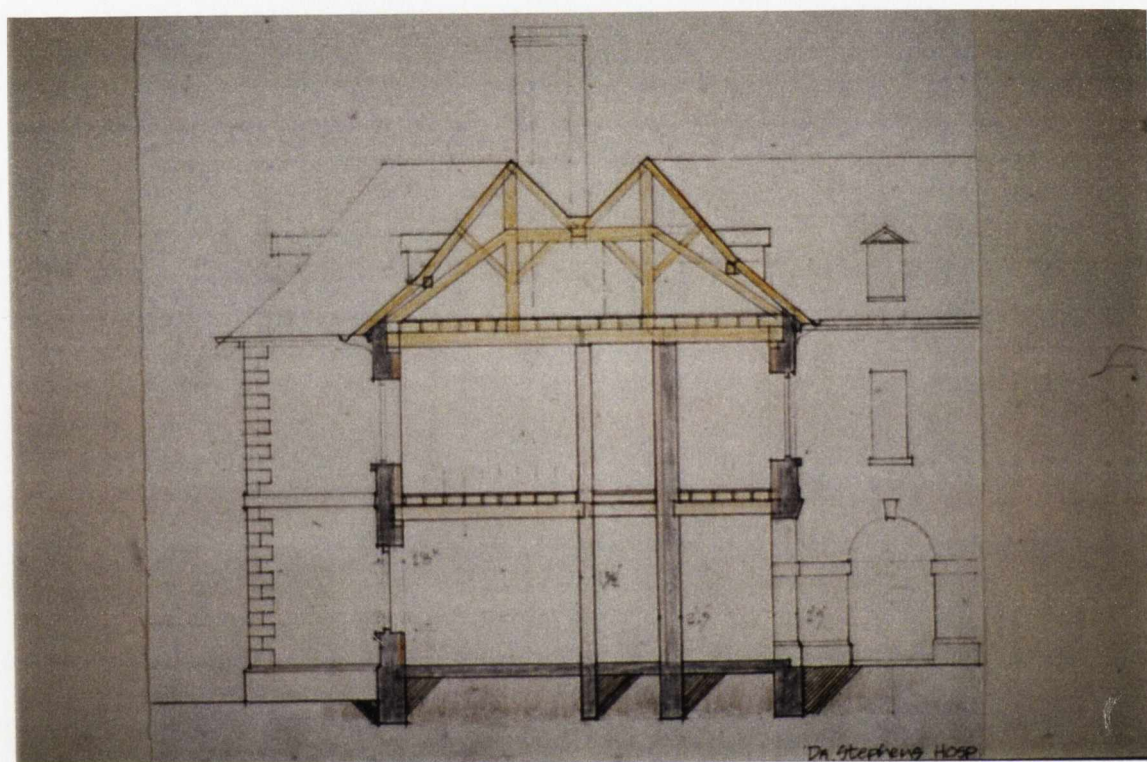


Irish Roof Construction fig. 9
Section through schoolmaster's house
Drogheda showing roof construction,
1720's.



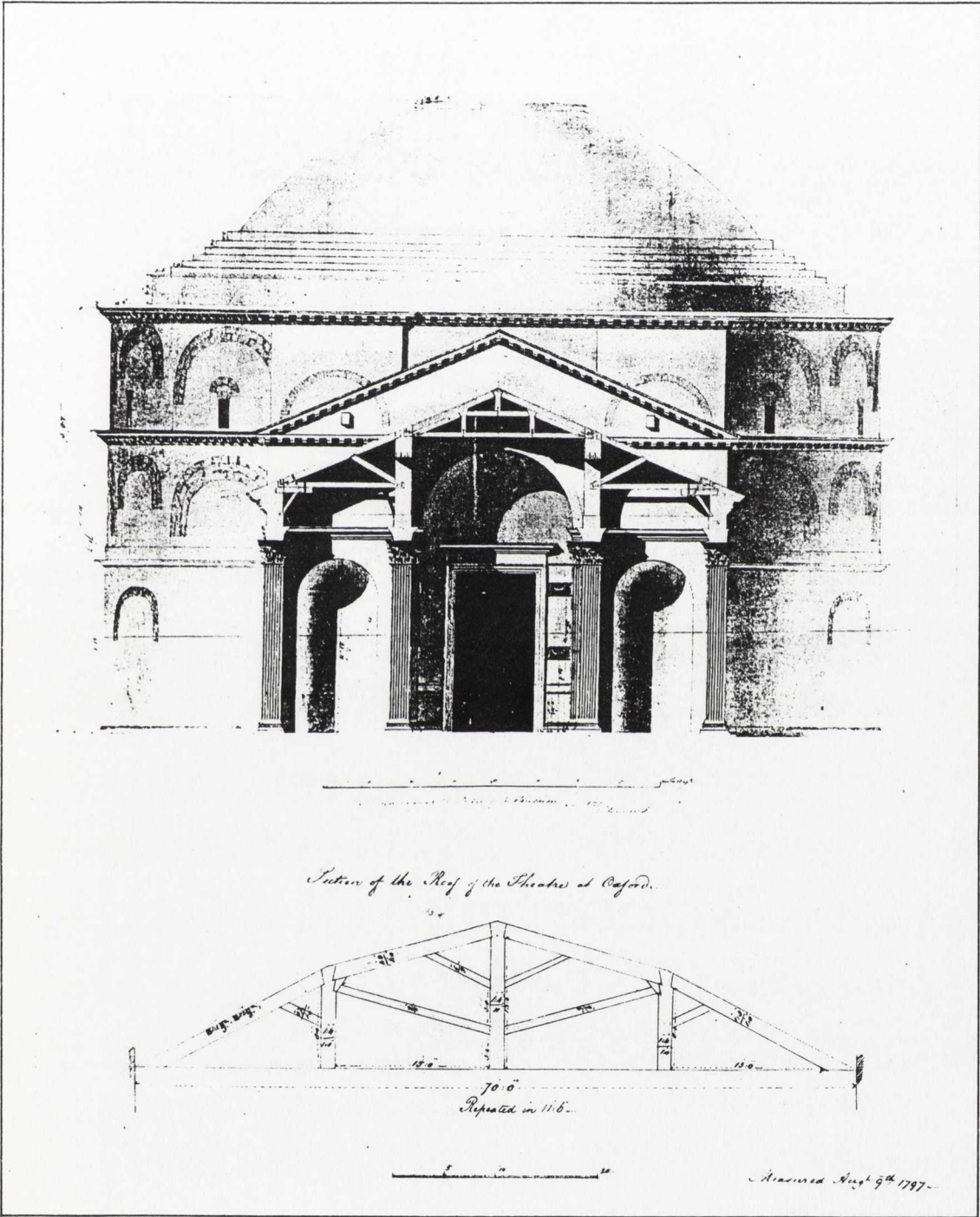
Section showing roof truss
used in Kilmacurragh, Co.
Wicklow, c1700.

fig. 10



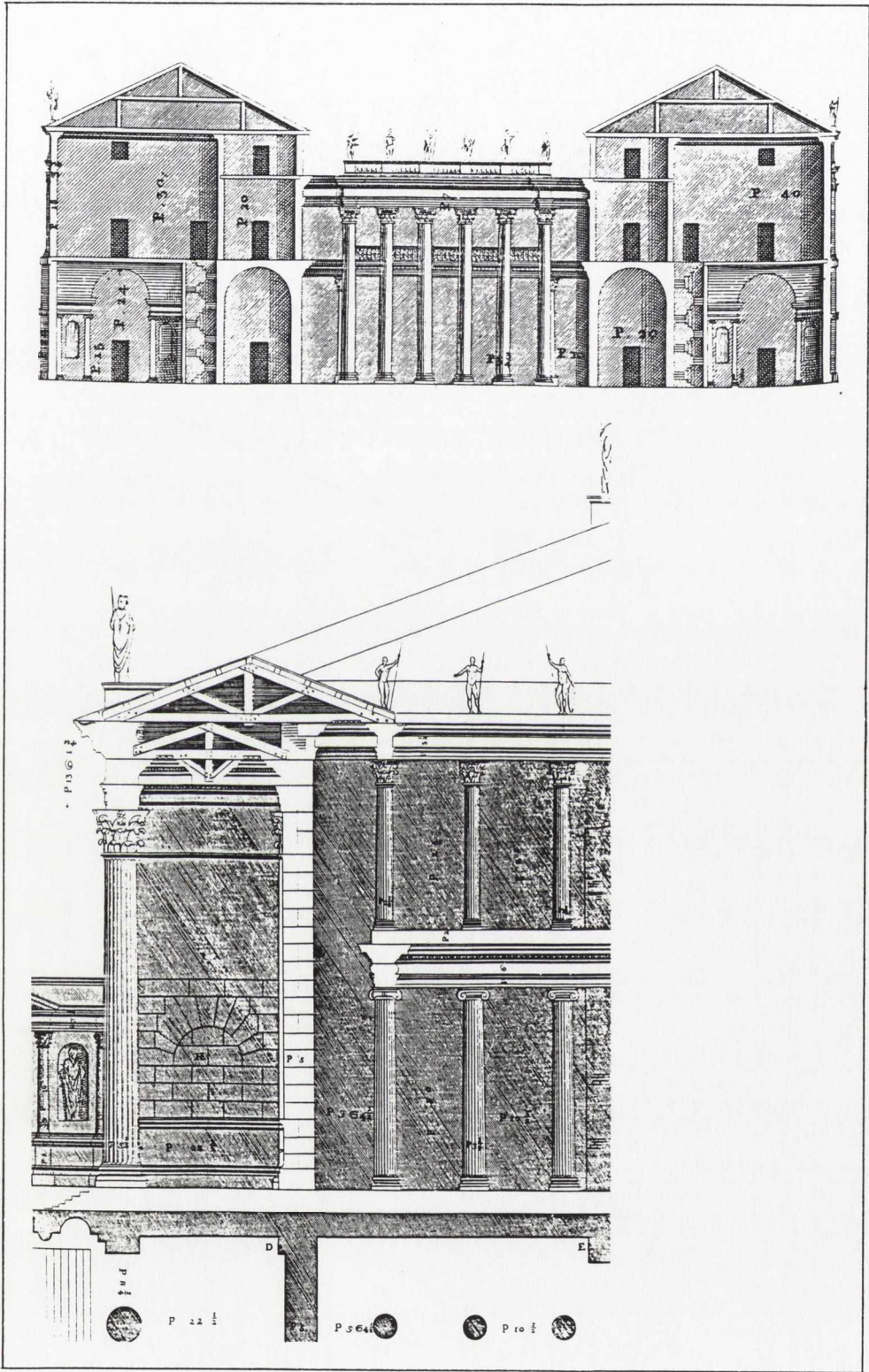
Section showing roof truss
used in Dr. Steevens' Hospital,
1720's.

fig. 11

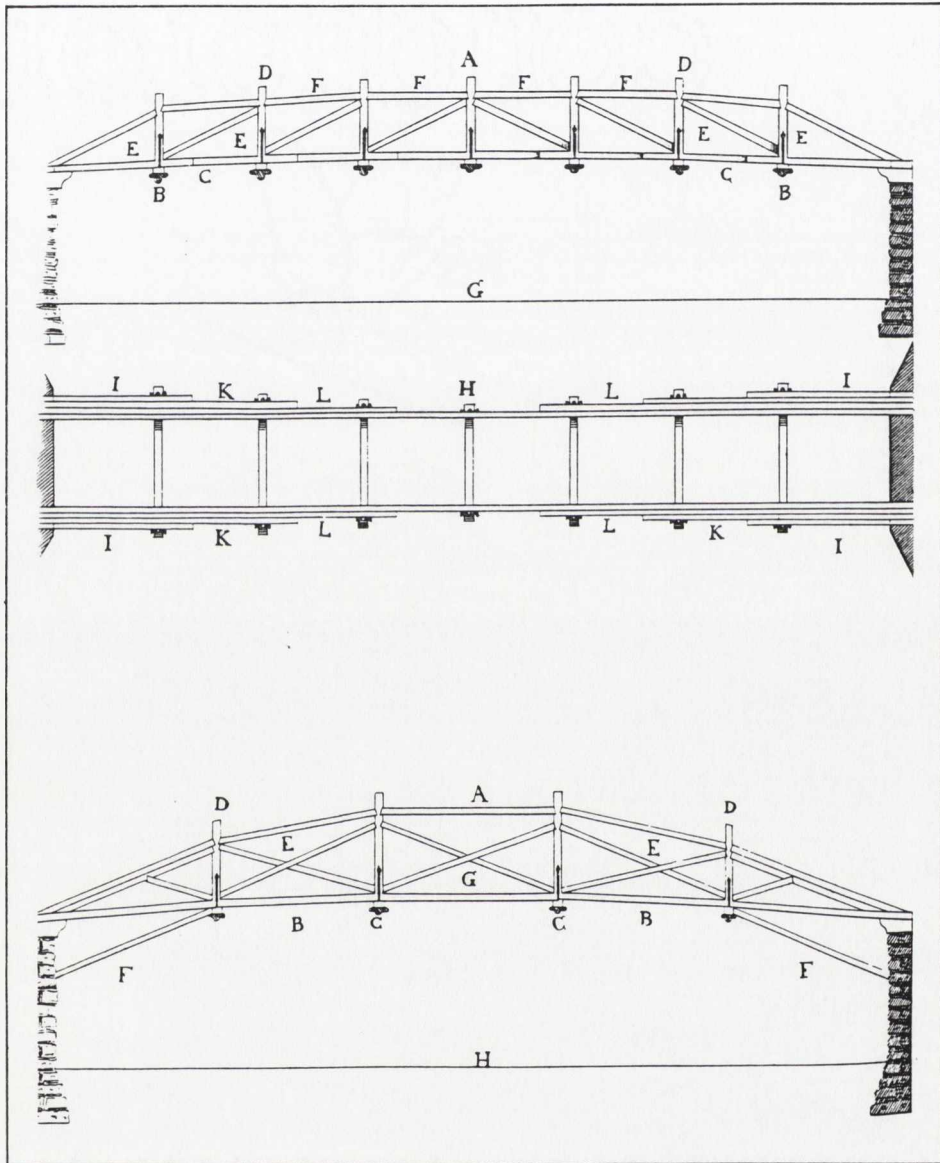


Section of Roman Pantheon showing roof construction. fig.12

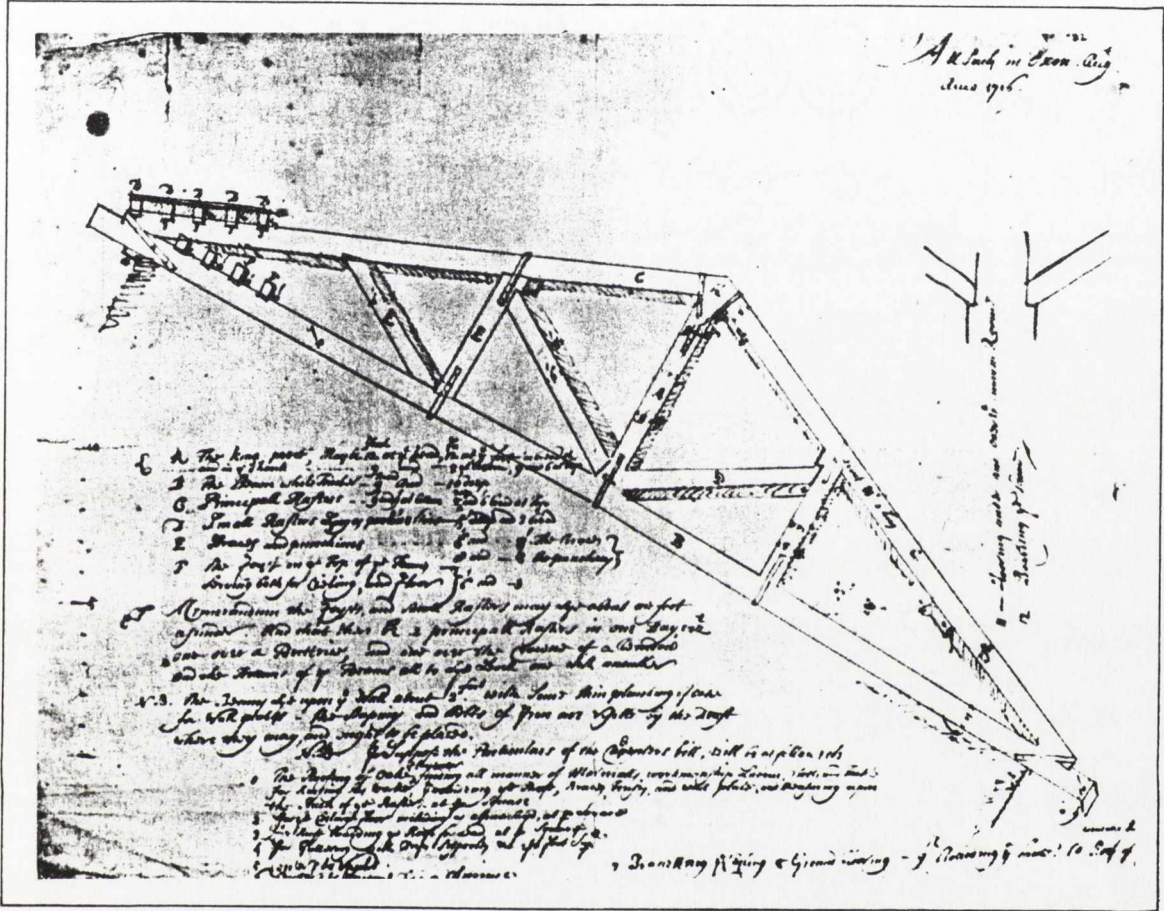
Survey of truss used by Christopher Wren in the Sheldonian Theatre in 1699. fig.13



Palladian trusses
Single and multiple post
trusses illustrated by Palladio. fig. 14

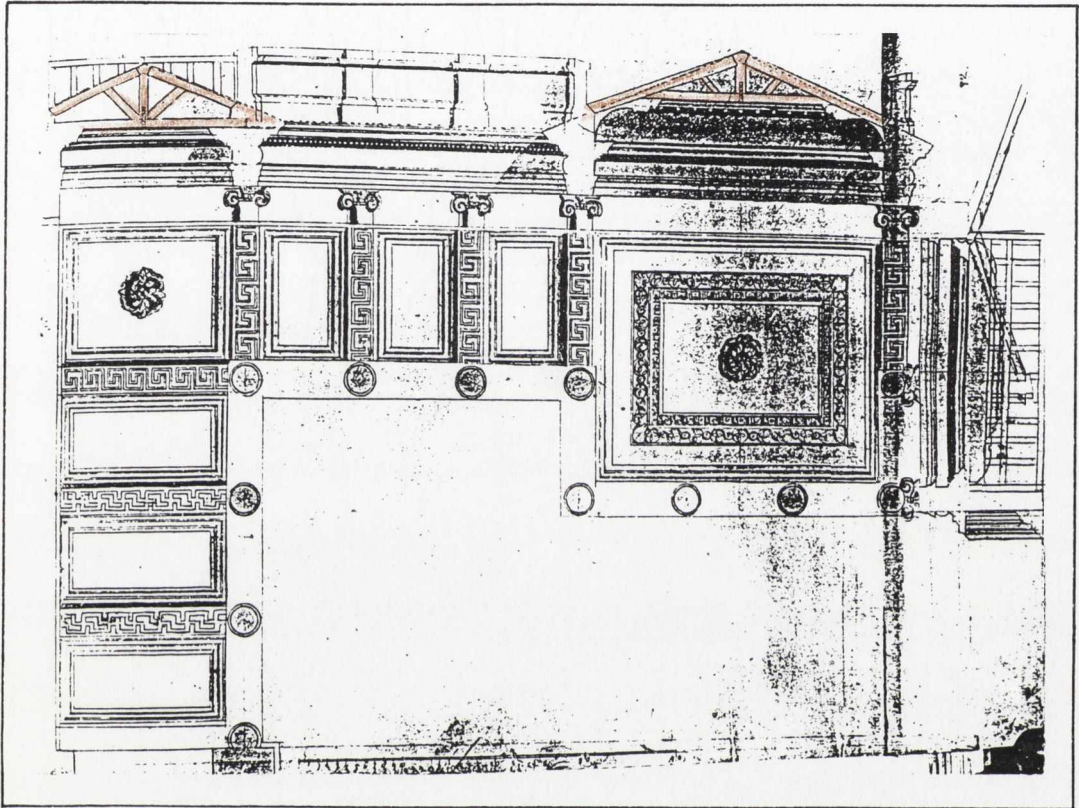


Andrea Palladio: fig. 15
 Single and multiple post trusses in bridge
 construction. These trusses influenced the
 design of Wren's long spanning trusses on
 the Sheldonian Theatre in 1669.



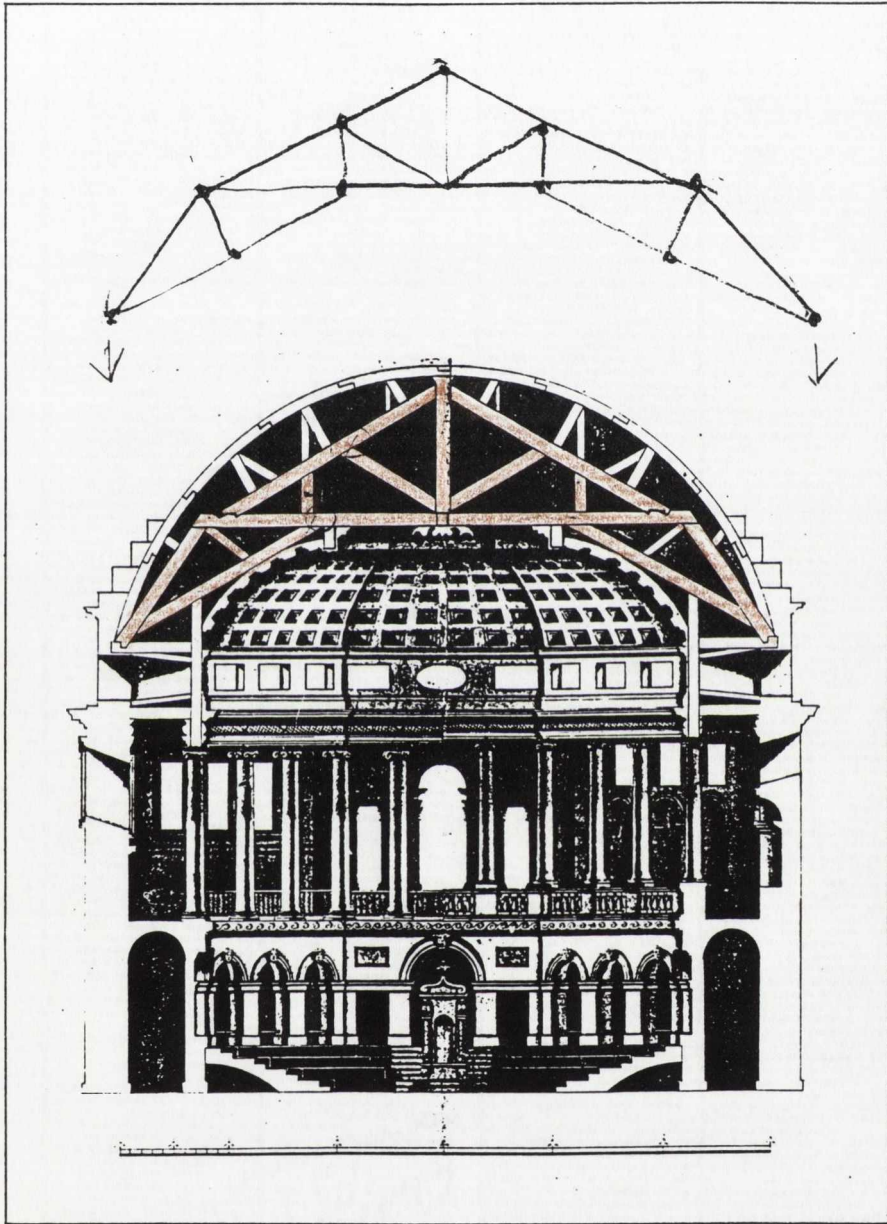
Drawing by Nicholas Hawkesmoor
of truss designed for All Souls College
Oxford, 1716.

fig. 16



Drawing of design for
roofs and ceilings of
Pearce's Parliament House, c1728.

fig. 17



Pearce's design for the trussed framing of the dome of the Parliament House, c1728.

fig.18

WHEREAS the Commissioners for Building of St. Mark's Church
having fixed on a Model for the Roof of said Church, give No-
tice, that they are ready to take in Proposals for the same.

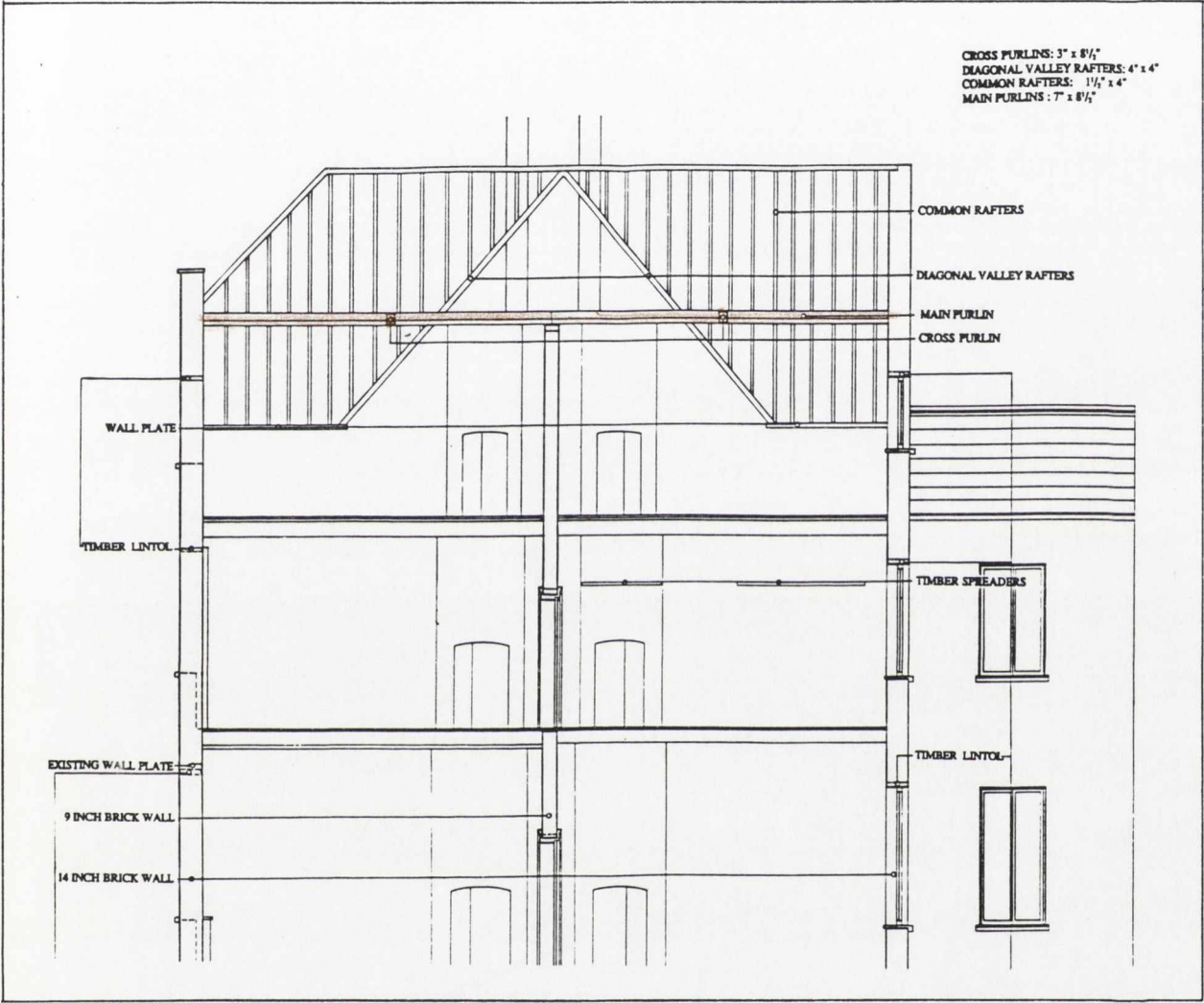
The Scantling of the Roof is as follows ;

	Inch	by	Inch
The principal Rafters	9		9
The Girder	13		9
King Posts (being 3 to each Pair of Principals)	12		9
Crown Beam	12		9
Upper Crown Beam	6		9
Discharging Braces between the two Crown Beams	6		9
Main Struts between the King Posts	6		8
Small Lateral Trusses	6		6
Principal Struts	6		9
Purloins	8		9
Small Rafters to be 12 Inches from Center to Center	5		2
Small Collar Beams	5		2
Wall Plate	6		8
Ridge Piece	2		7
Ceiling Joist	2		6

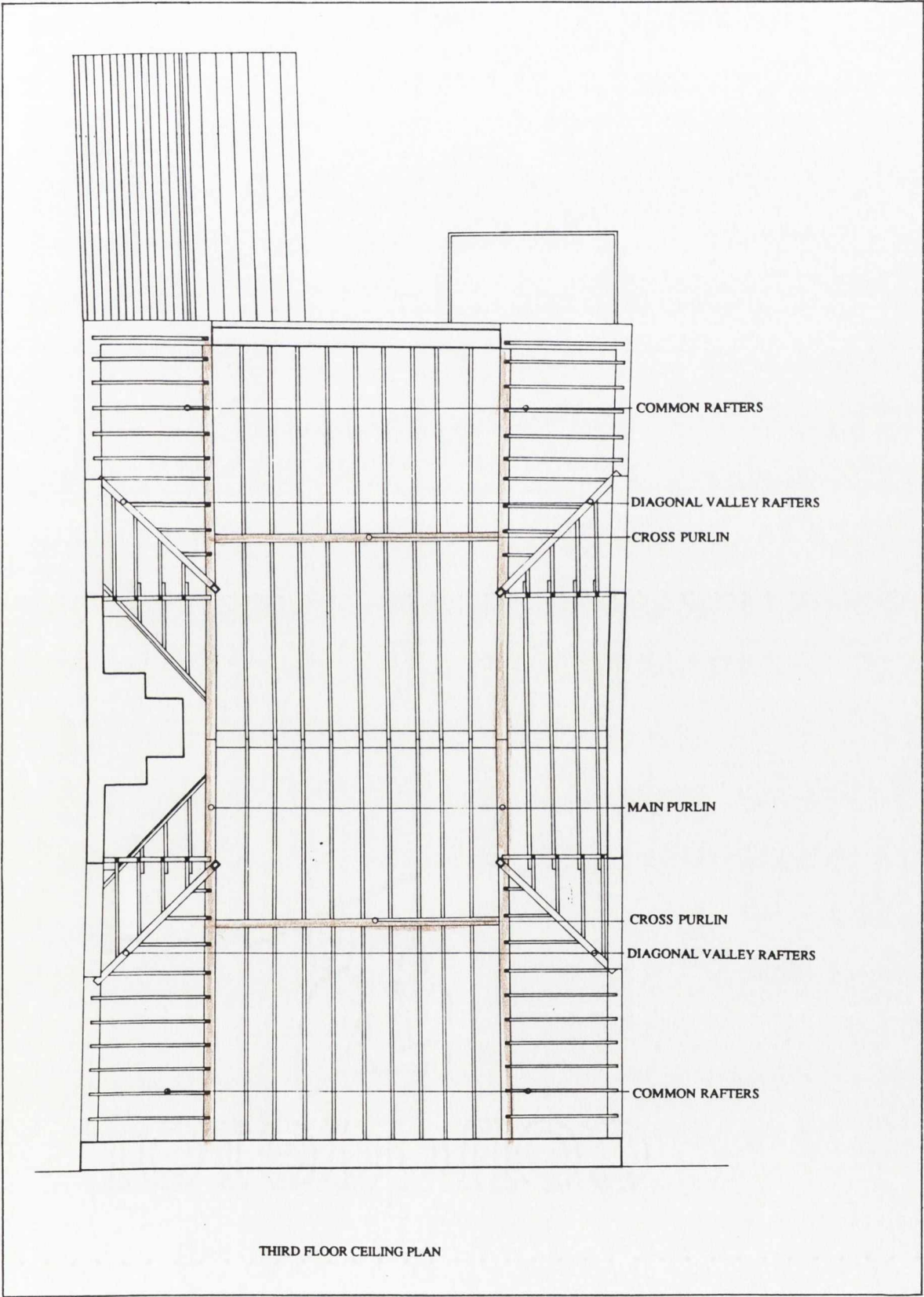
Those inclined to send Proposals may see the Model and Plan at Mr.
Charles Nobilleau's, Churchwarden, at his House in Fleet-street ; and the
Commissioners will meet at the Vestry-room of St. Andrew's, on Friday
the 28th Day of August 1752, to receive Proposals and contract for the
Roofing of the said Church, and likewise to receive Proposals for Slating
and Rendering said Roof, in the best Manner, with double Slates.

N.B. The Scaffolding is to be found by the Contractor for said Roof,

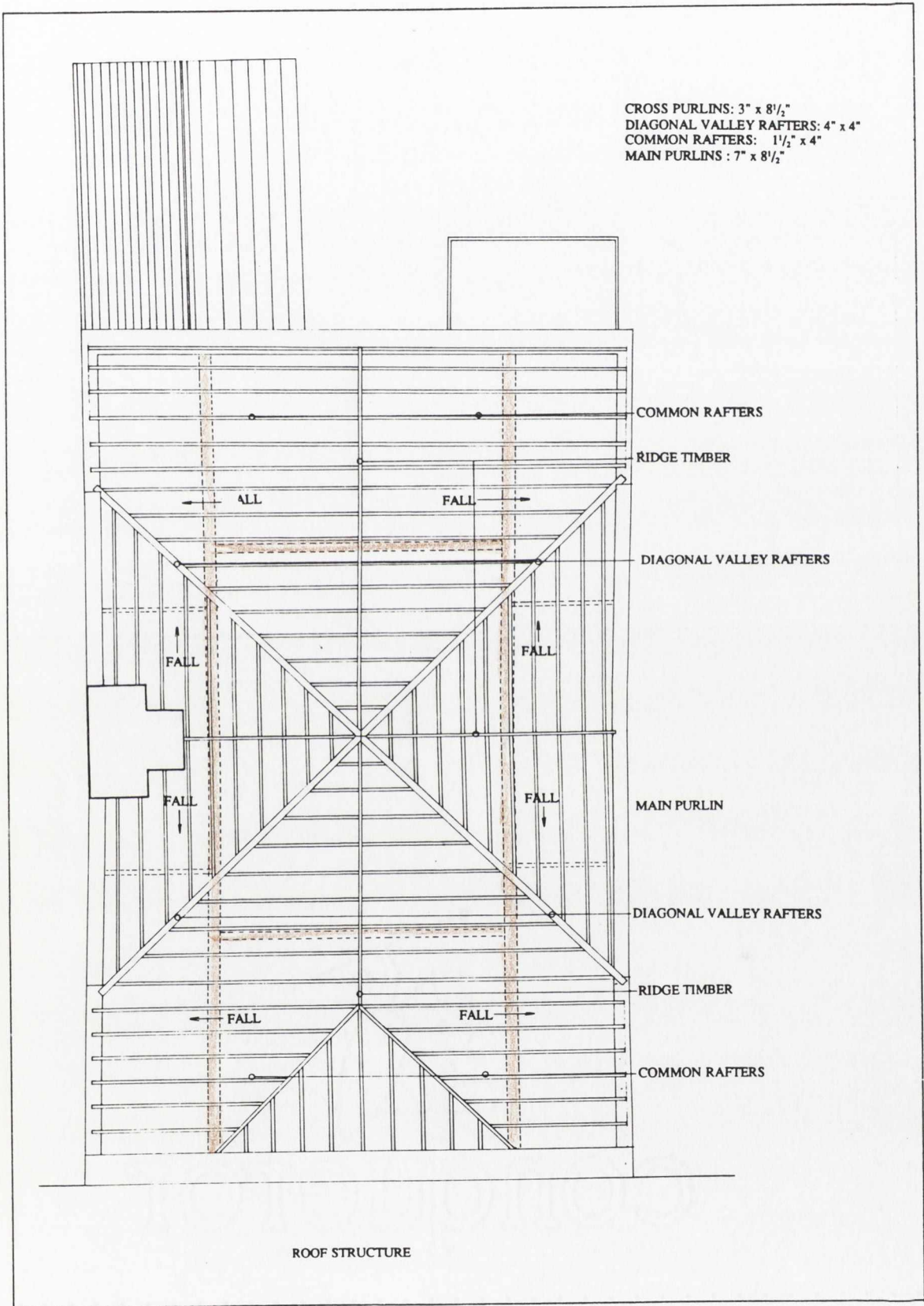
St. Mark's Church Dublin 1752: fig. 20
Bill of scantling for roof construction
advertised in *Faulkner's Dublin*
Jour. 22-25 Aug. 1752.



10 South Frederick Street, Dublin: fig. 21
Cross section of cruciform roof.



10 South Frederick Street, Dublin: fig. 22
Plan of roof (lower level) showing use of
cross purlins between gables.



10 South Frederick Street, Dublin: fig. 23
Plan of roof (upper level).

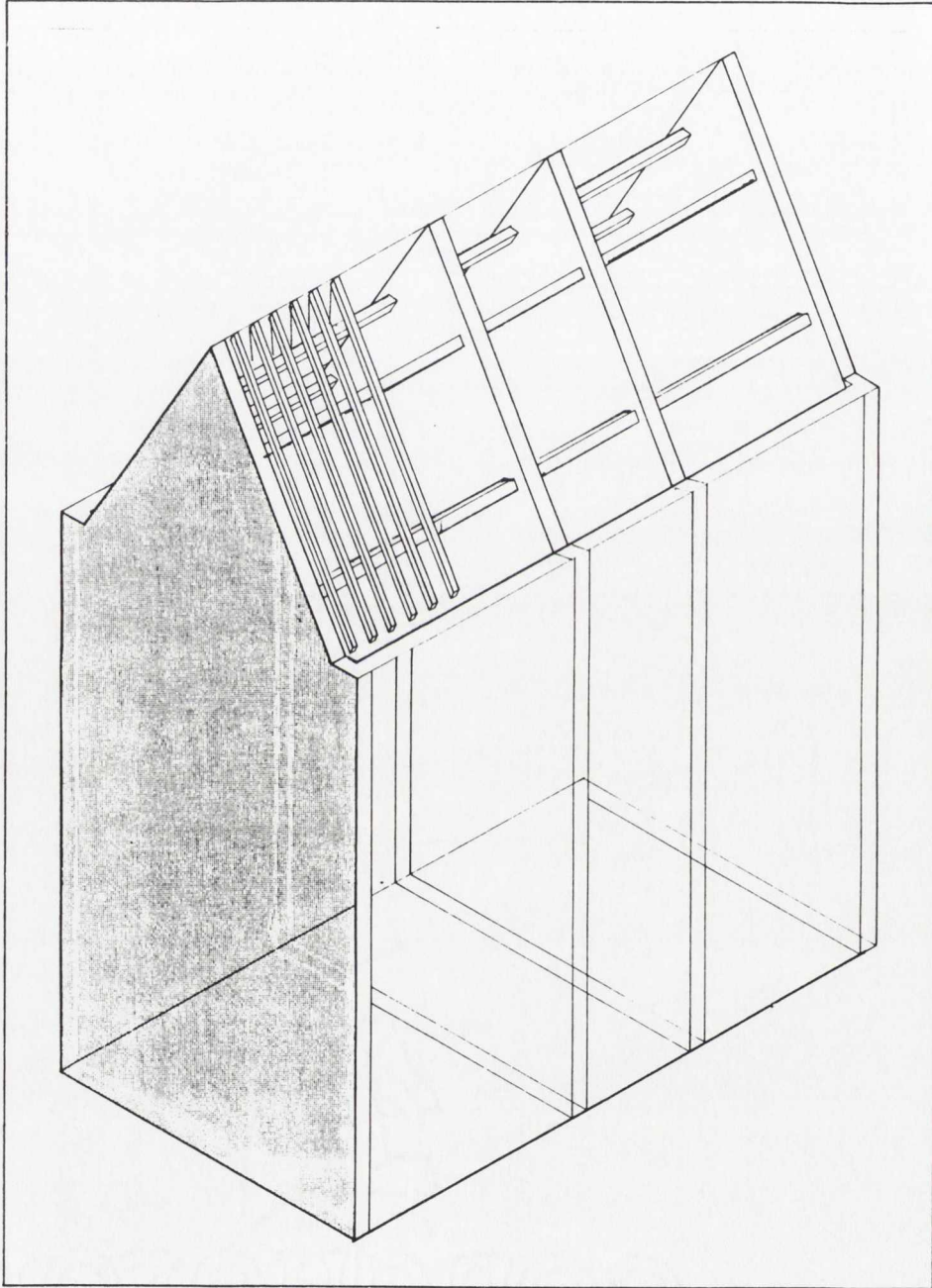
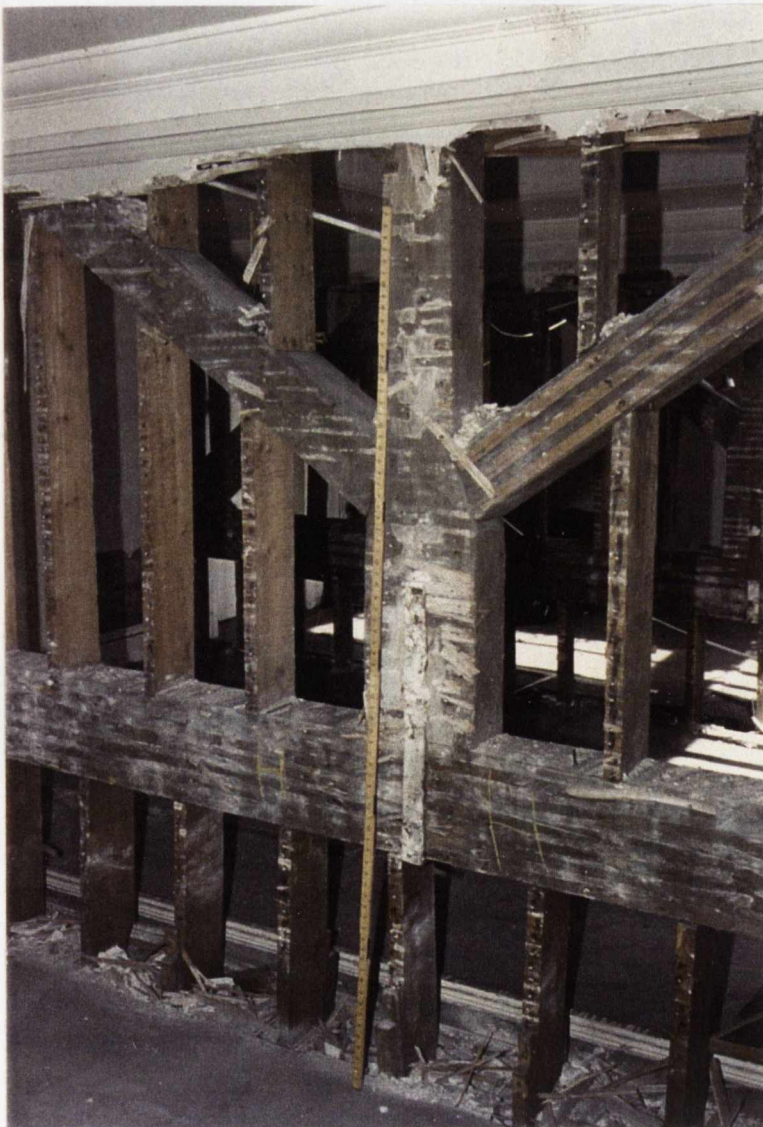
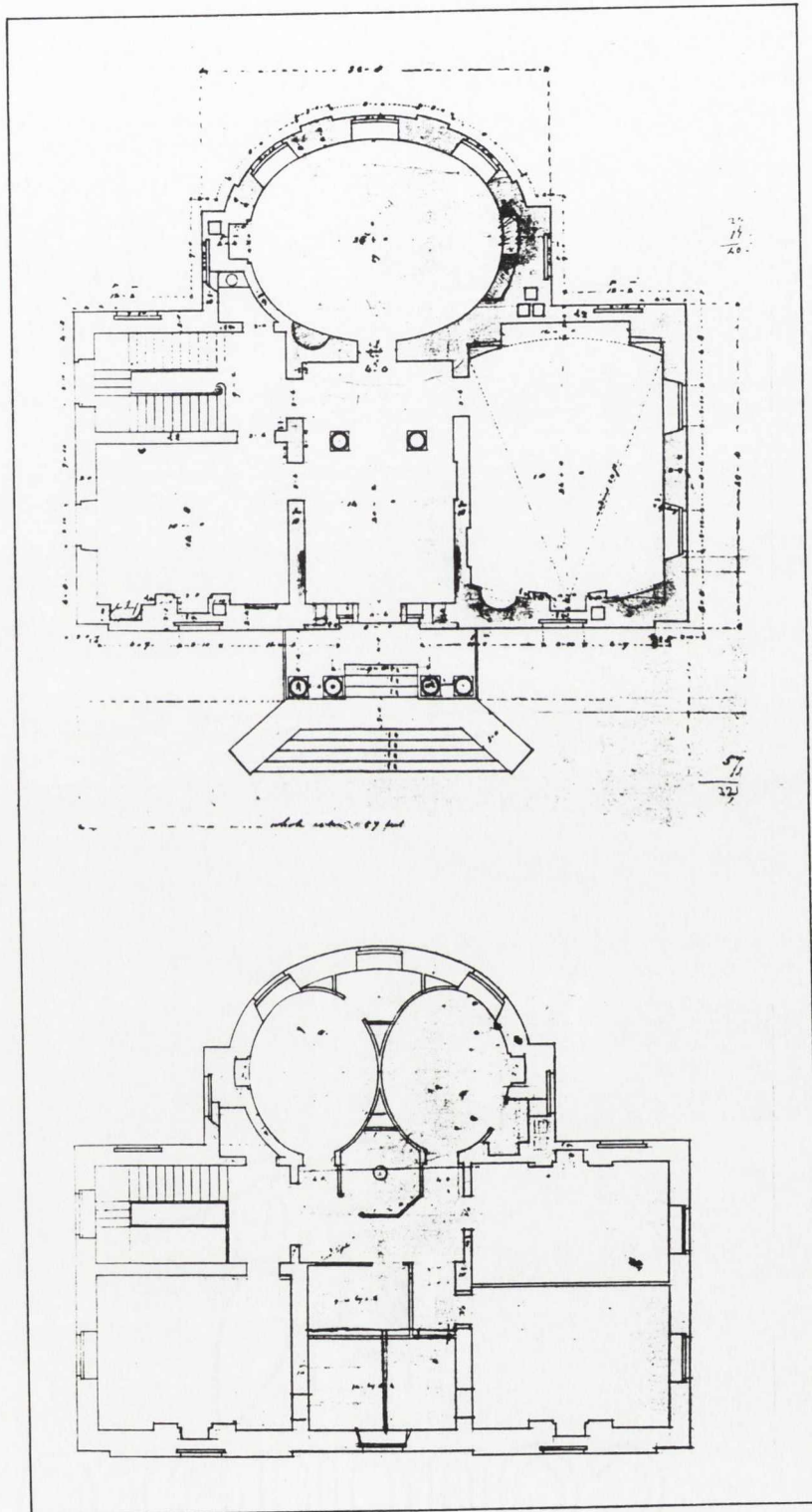


fig. 24
Roof construction of typical Irish provincial town house. The use of masonry gables and purlin construction avoided the need for trusses. Many houses in Cork city (and notably the 1740's house on Pope's Quay) were built in this fashion.

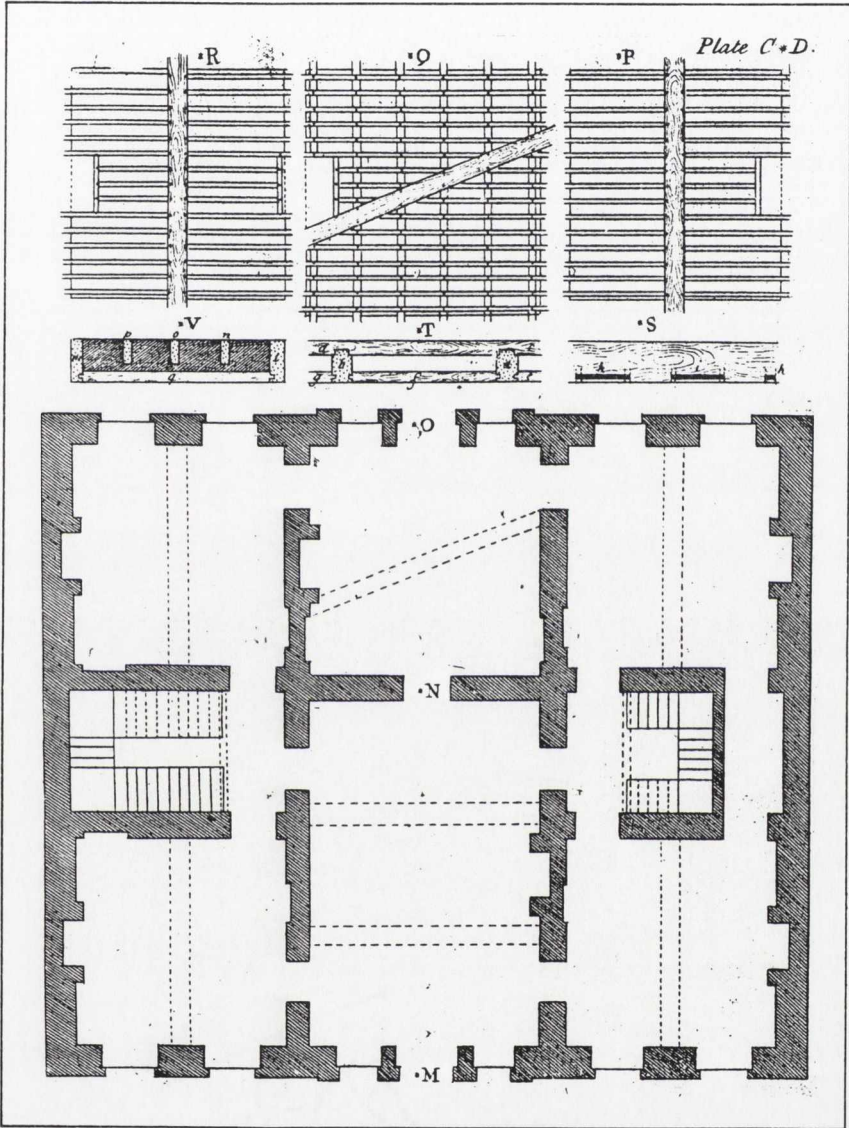


Charlemont House, Dublin: fig. 25
Use of trussed partitions by William
Chambers, 1760.



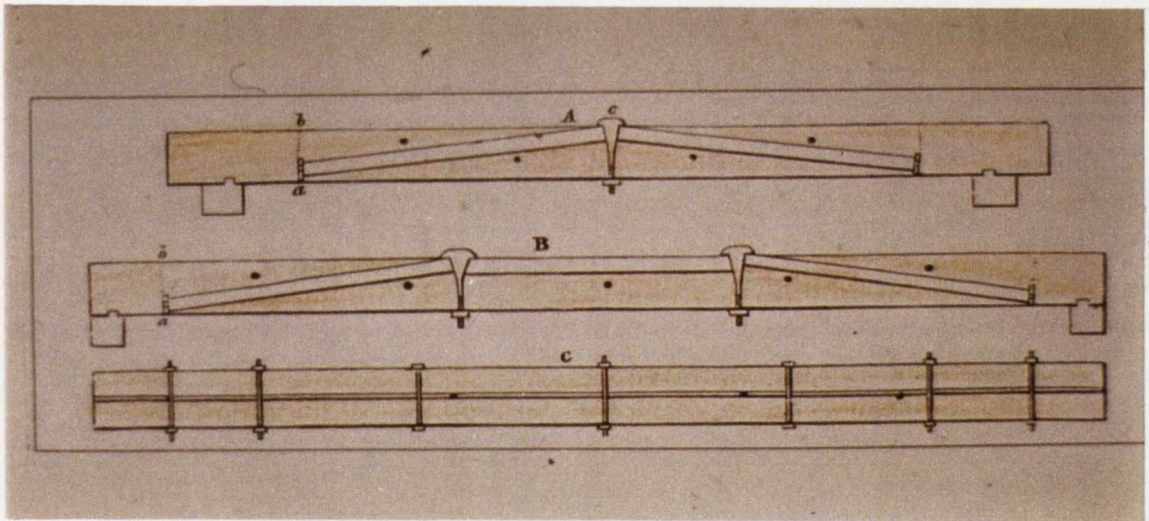
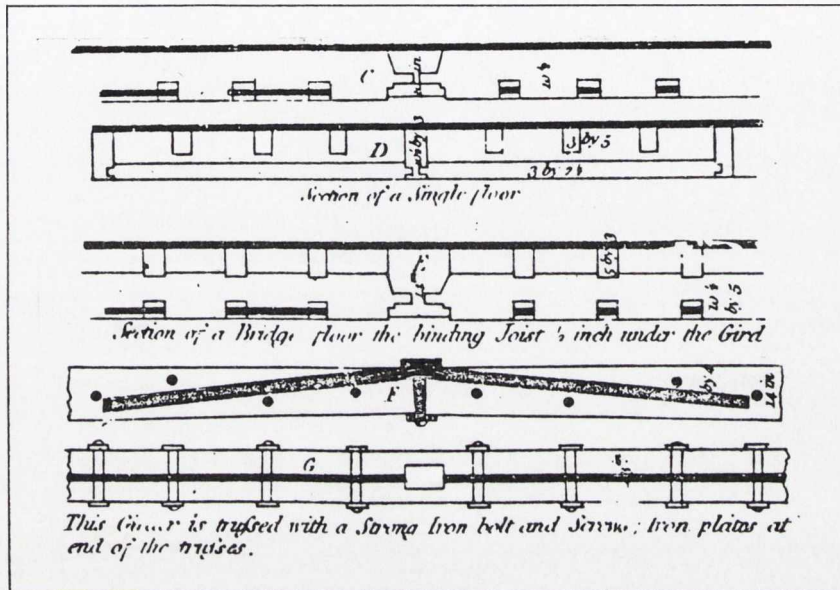
James Gandon: Proposal for Carriglass, Co. Longford, c1790, showing dependence on trussed partitions.

fig. 26



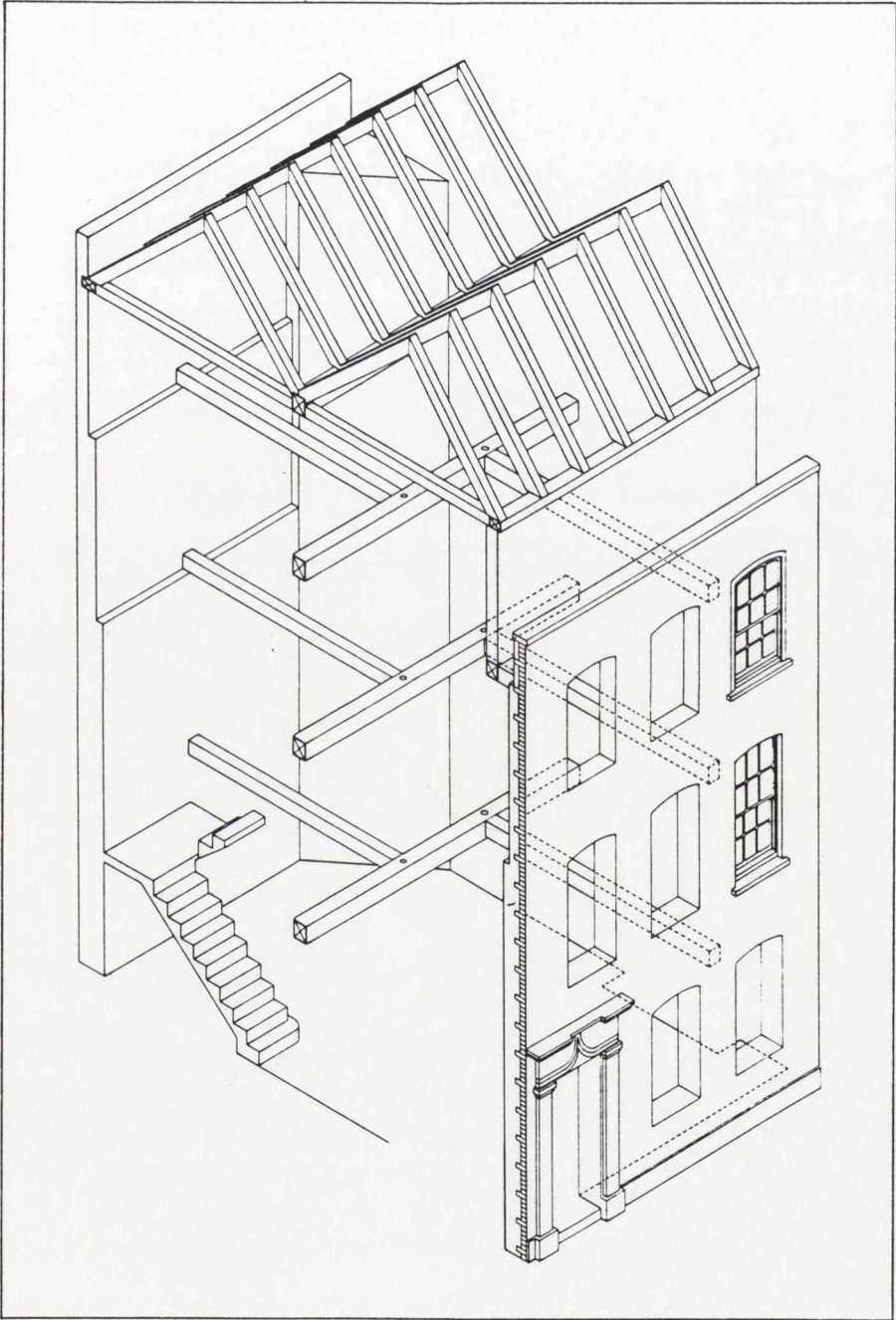
Francis Price: English floor framing.

fig. 27

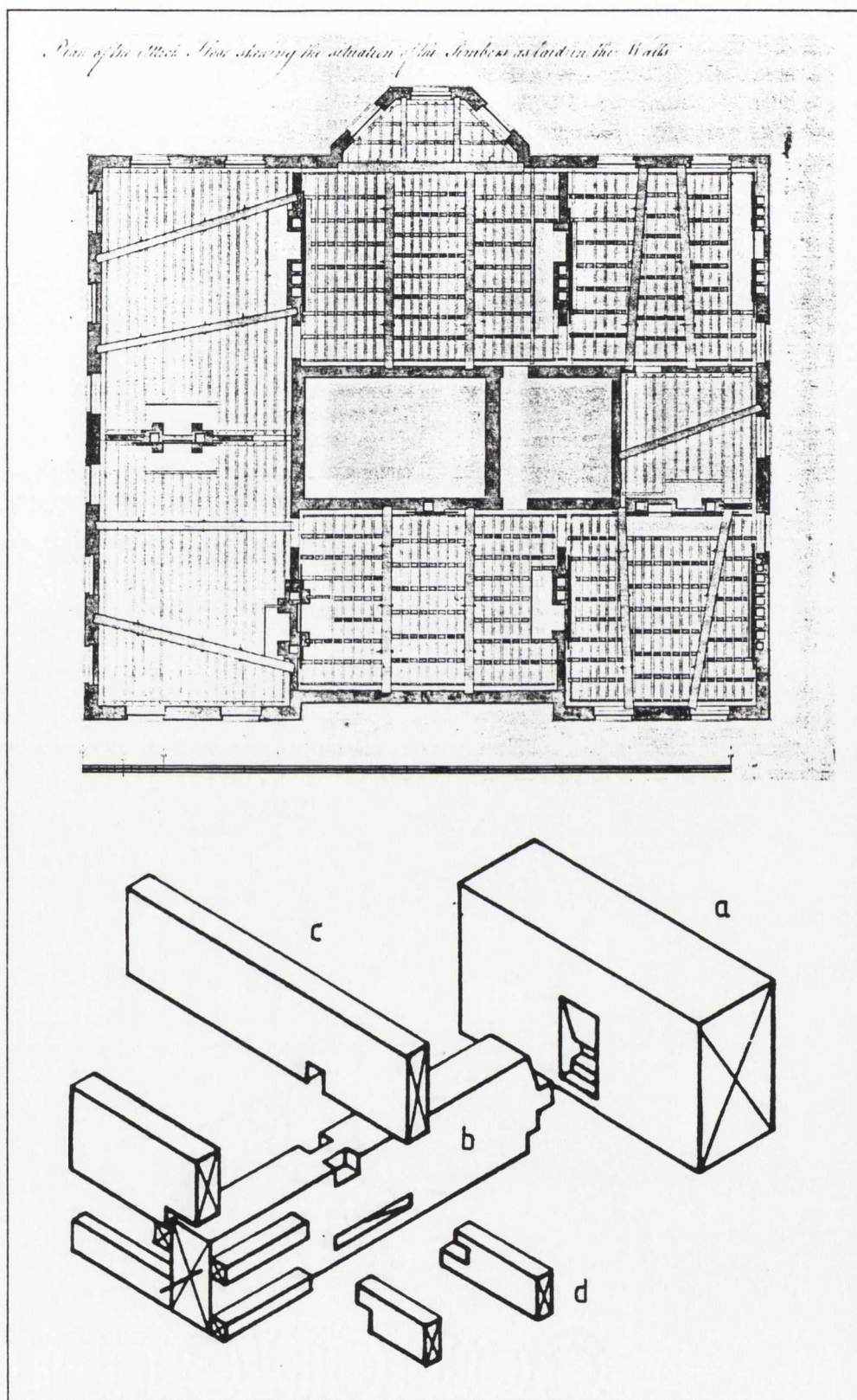


Francis Price: Trussed girder and
William Pain: Trussed girder.

fig. 28



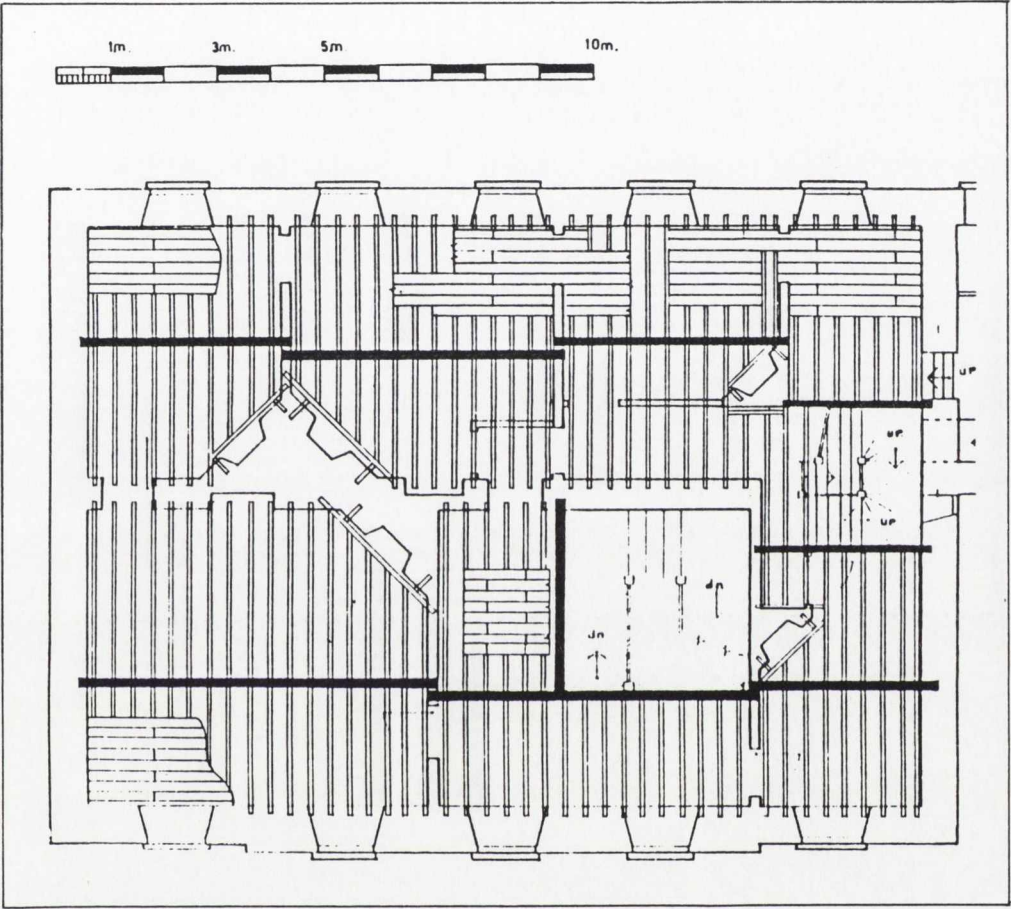
Framing construction used in typical eighteenth century London speculative houses showing use of girders and binders. fig. 29



- a girder
- b binder
- c joist
- d ceiling joist

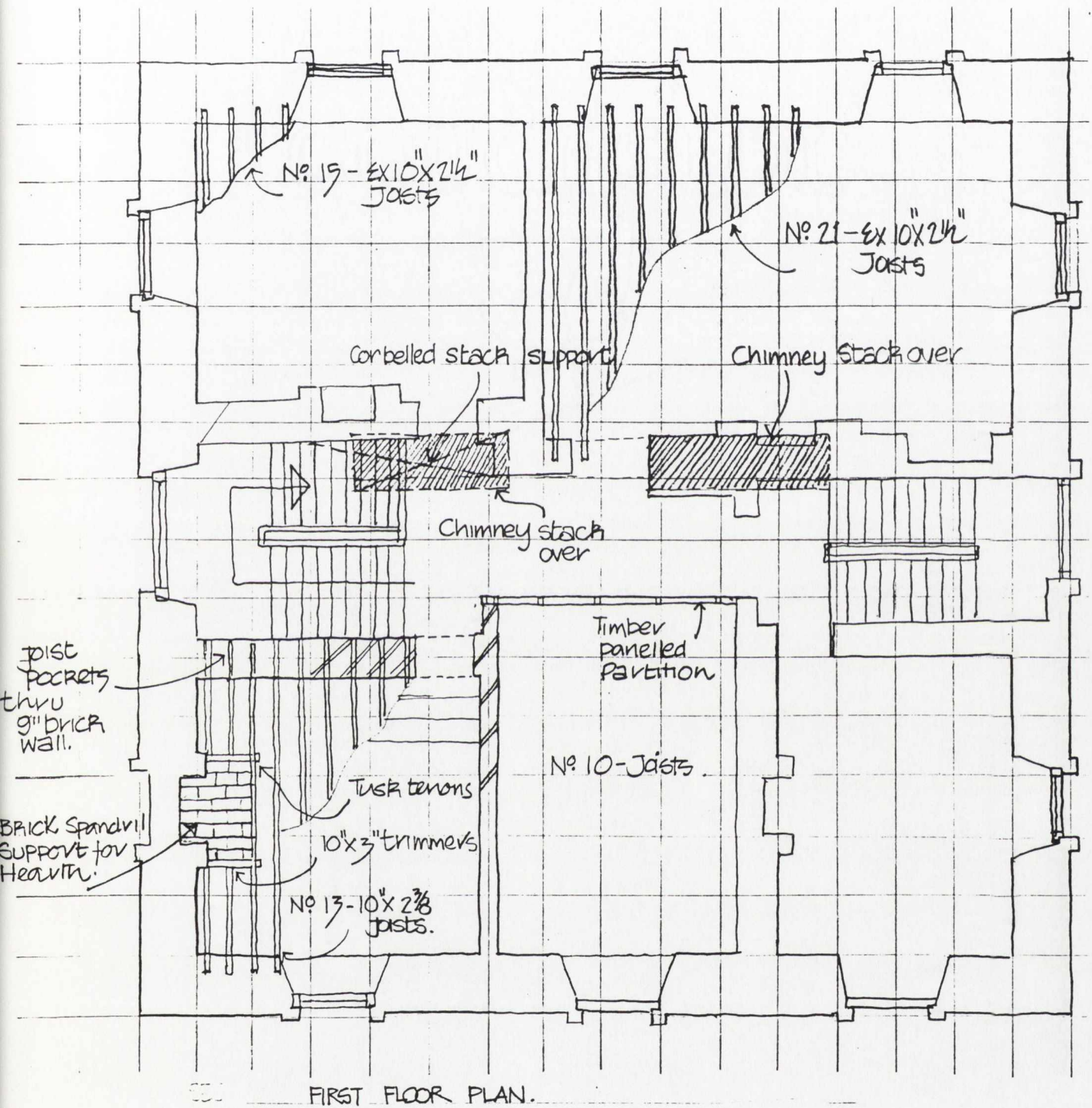
Robert Mylne, Wormleybury, Hertfordshire: fig. 30
Plan of bedroom floor, 1767

Joints used in English floor framings. fig. 31

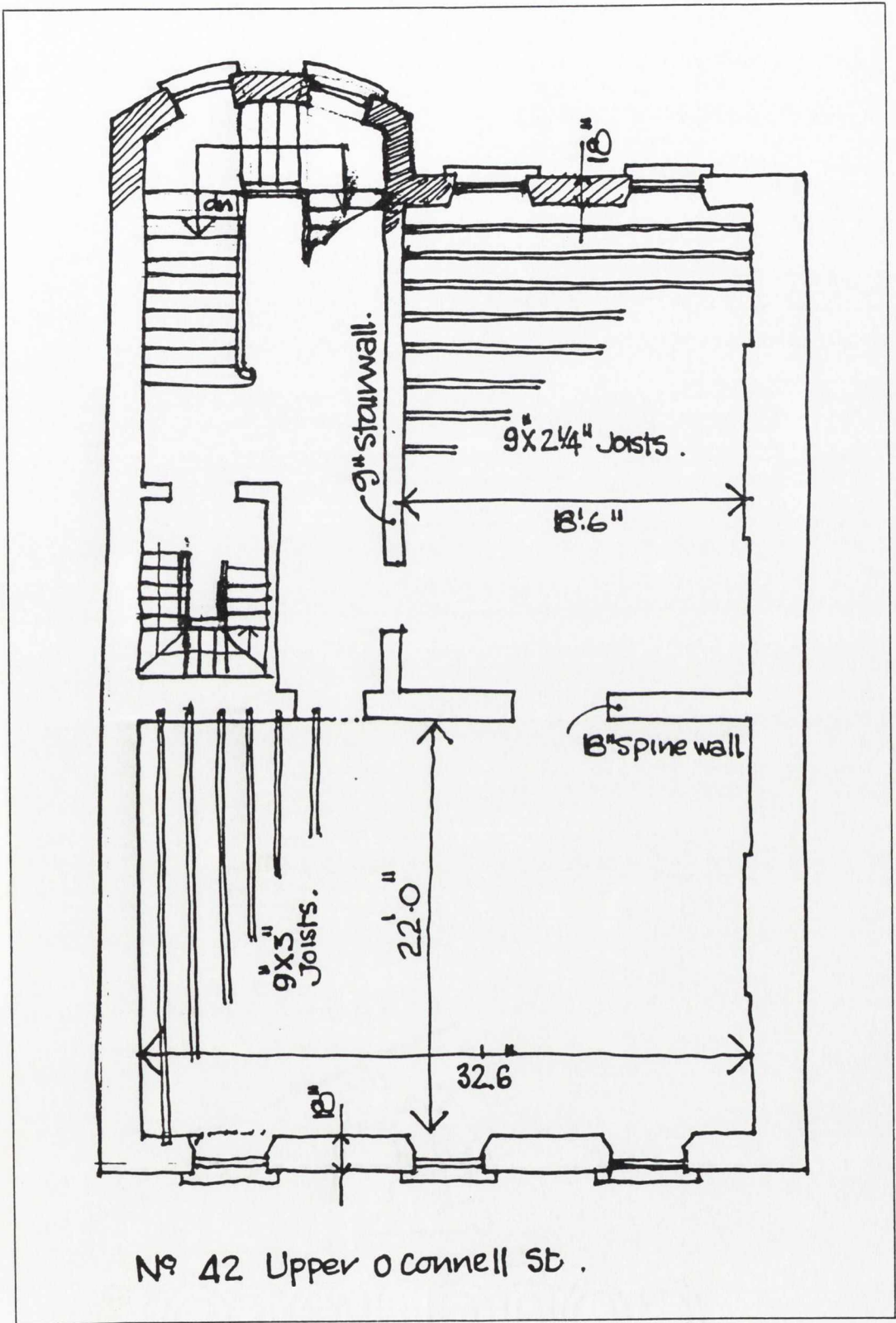


Kilmacurragh Co. Wicklow:
Survey of floor framing.

fig. 33

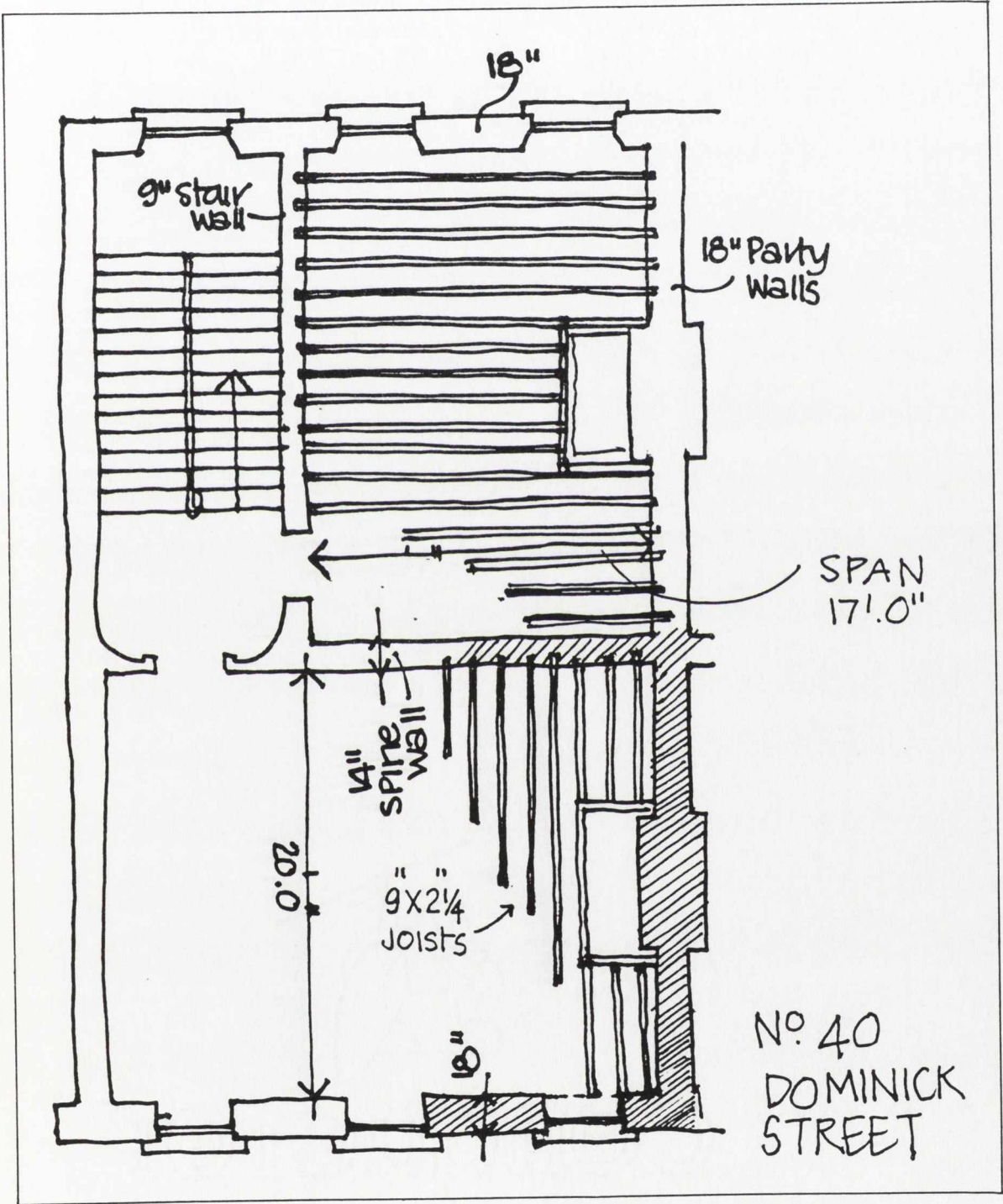


Ledwithstown, Co. Longford: fig. 34
Floor construction.



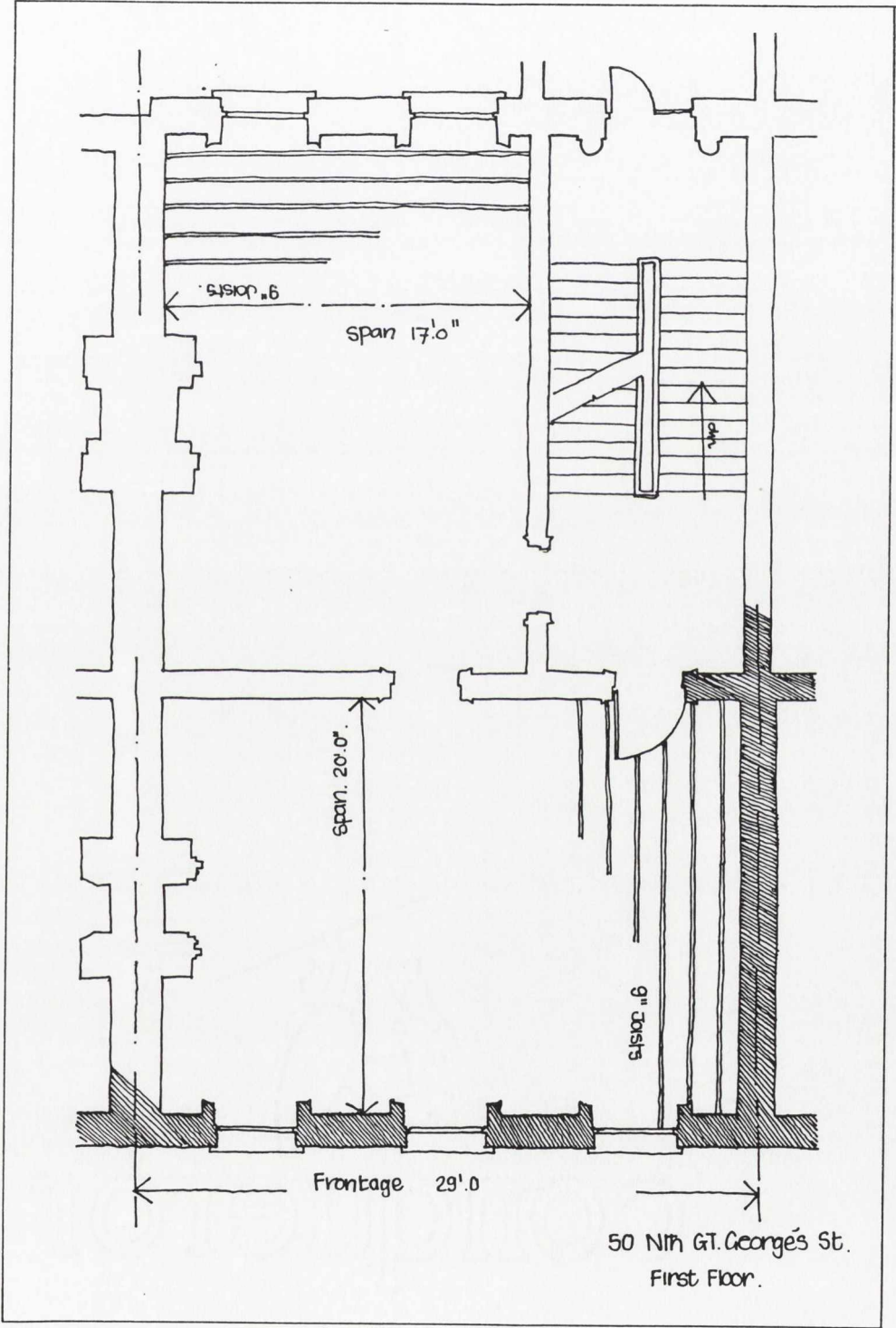
42 Upper O'Connell Street,
floor construction.

fig. 35



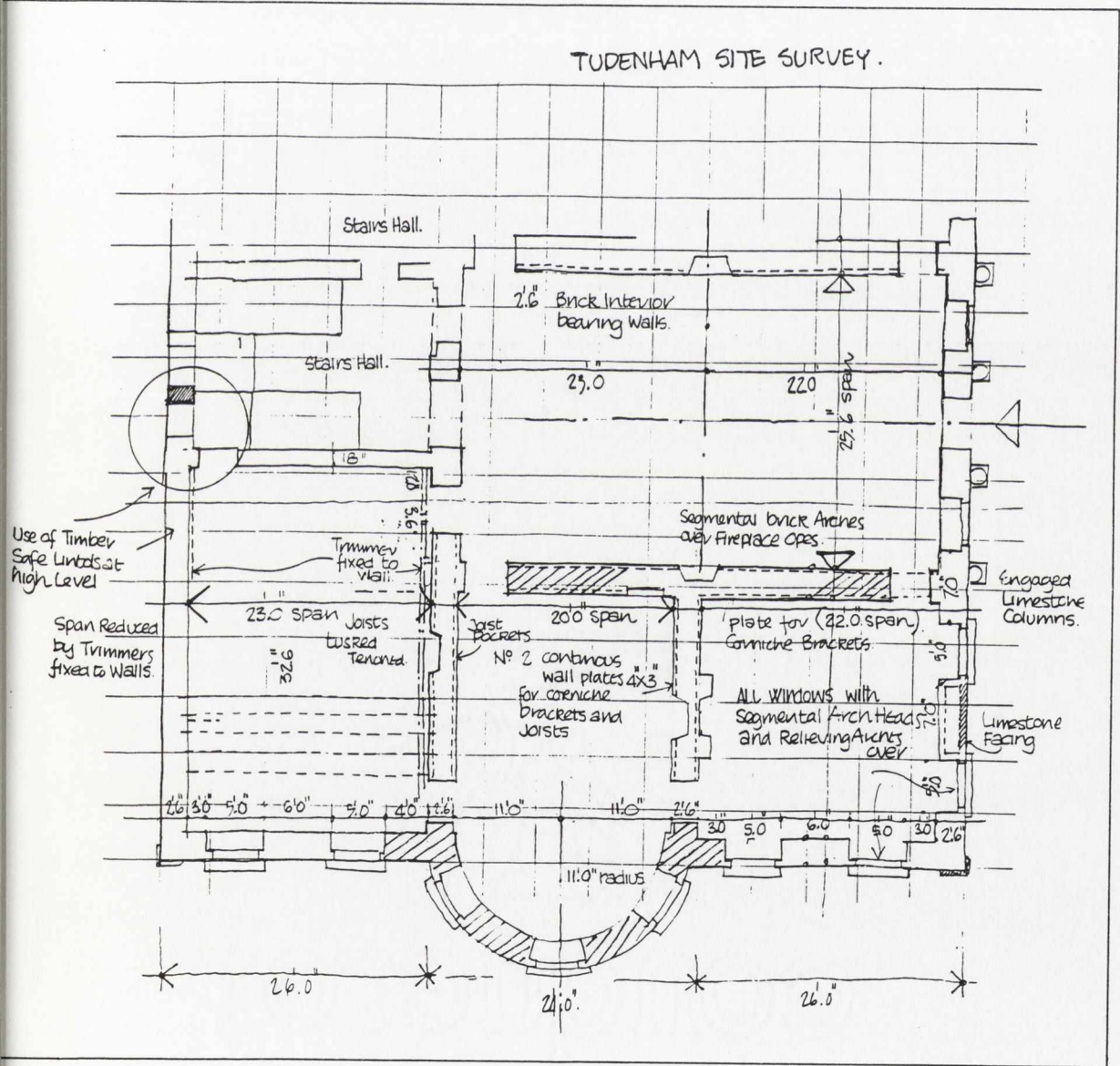
40 Dominick Street: Floor construction.

fig. 36

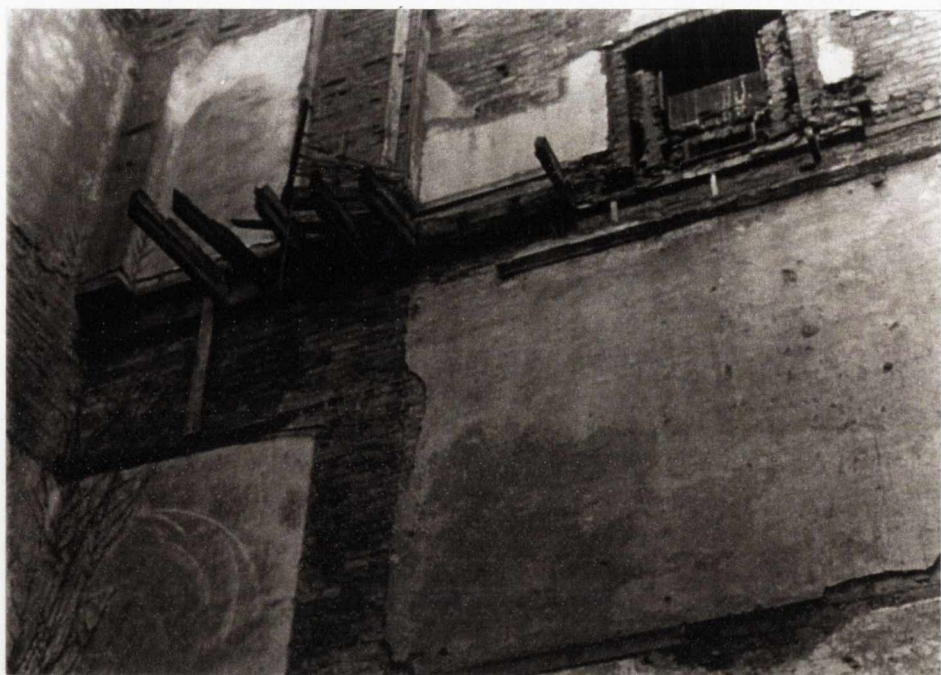


50 North Gt. George's St.:
Floor construction.

fig. 37

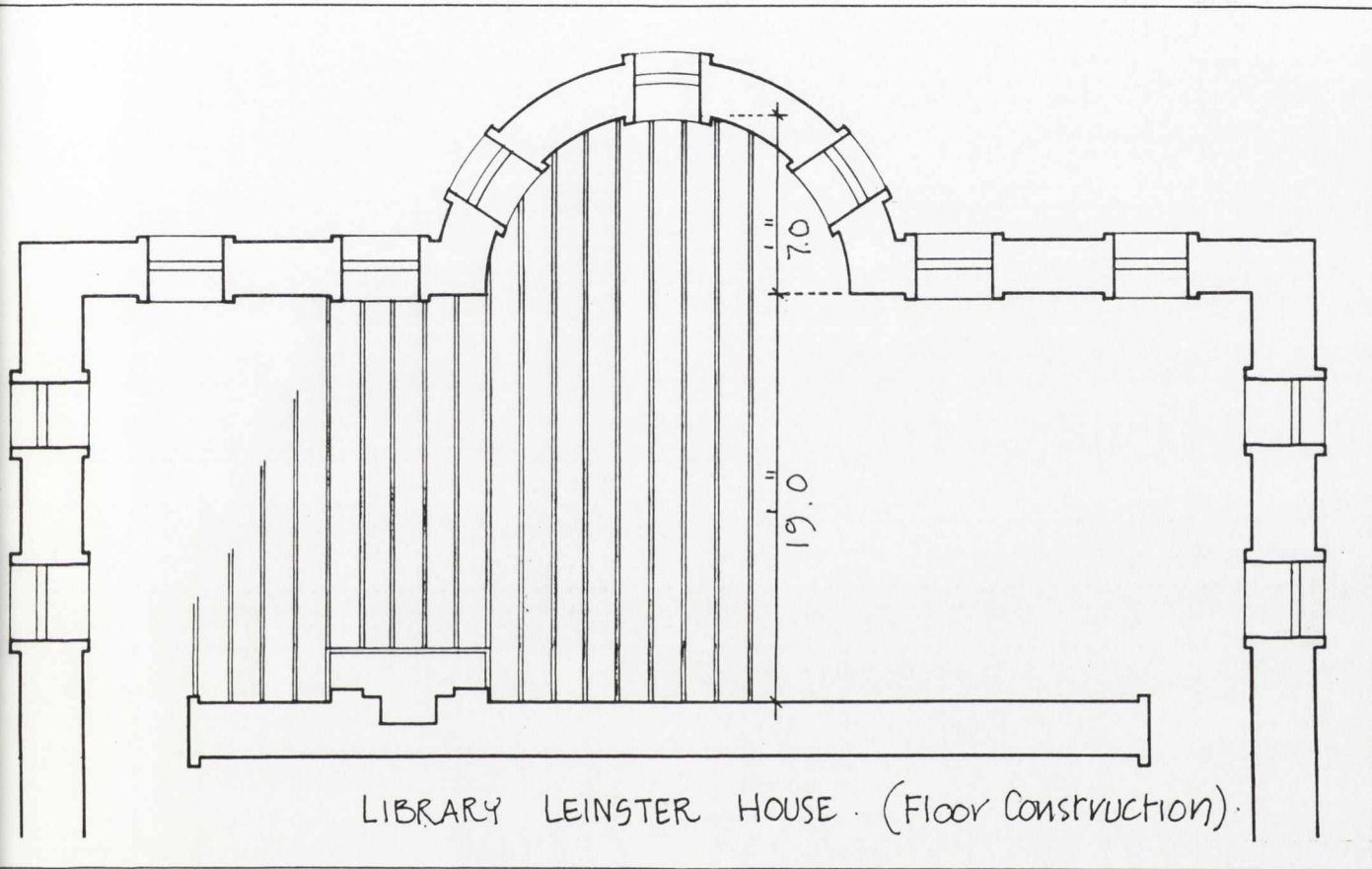


Tudenham, Co. Westmeath: fig. 38
Survey showing floor construction.

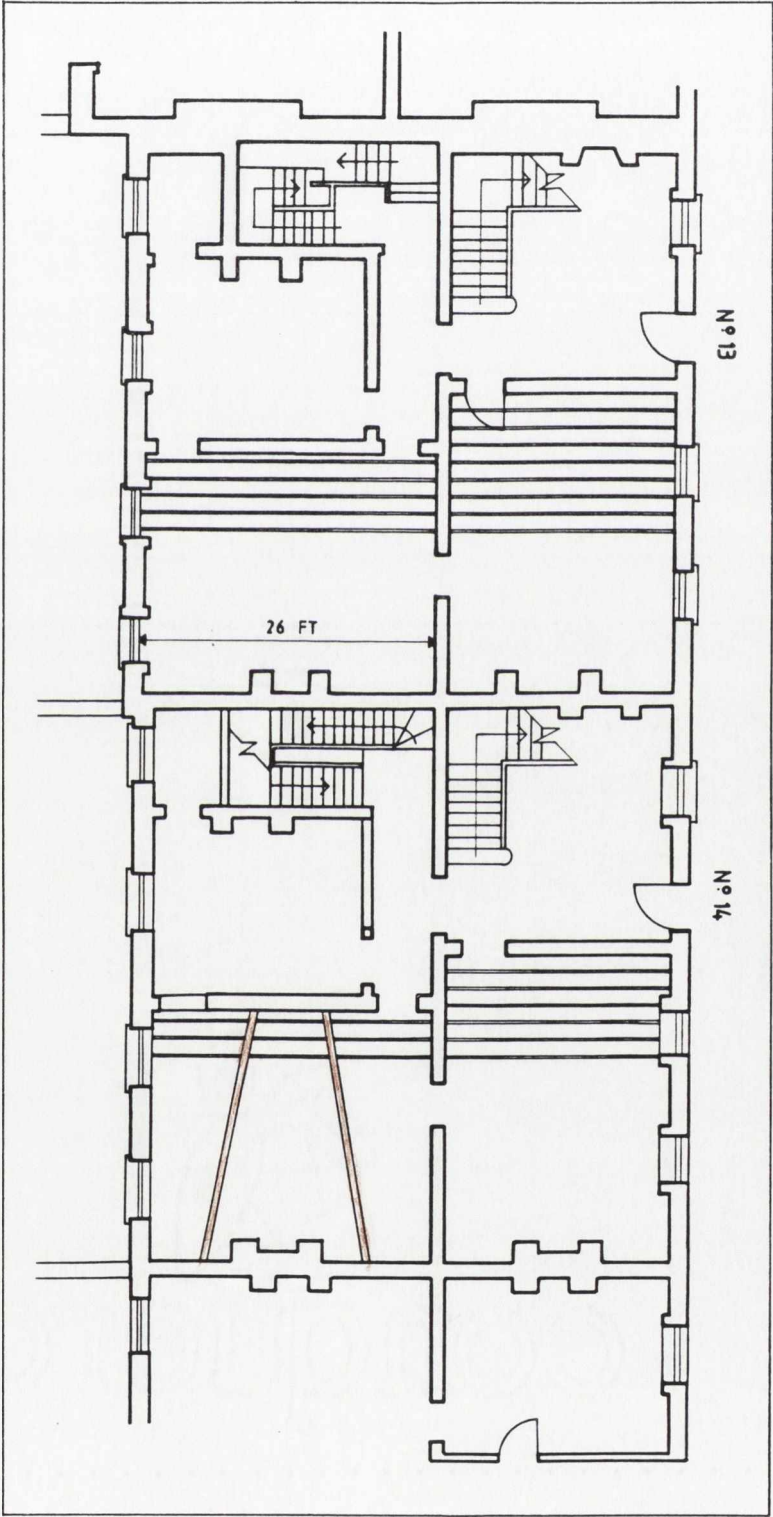


Tudenham, Co. Westmeath:
Use of long spanning joists.

fig. 39



Leinster House: fig. 40
 Survey of floor construction of
 library showing use of long
 spanning joists over spans of
 up to 26 feet.



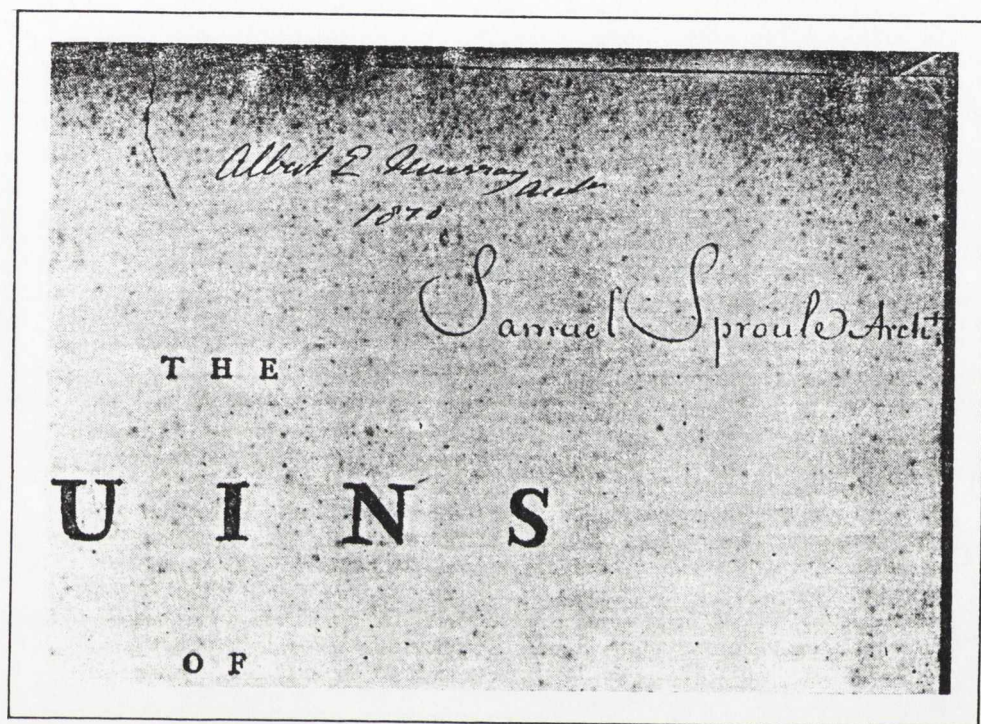
13 and 14 Henrietta St.:
Floor construction.

fig. 41

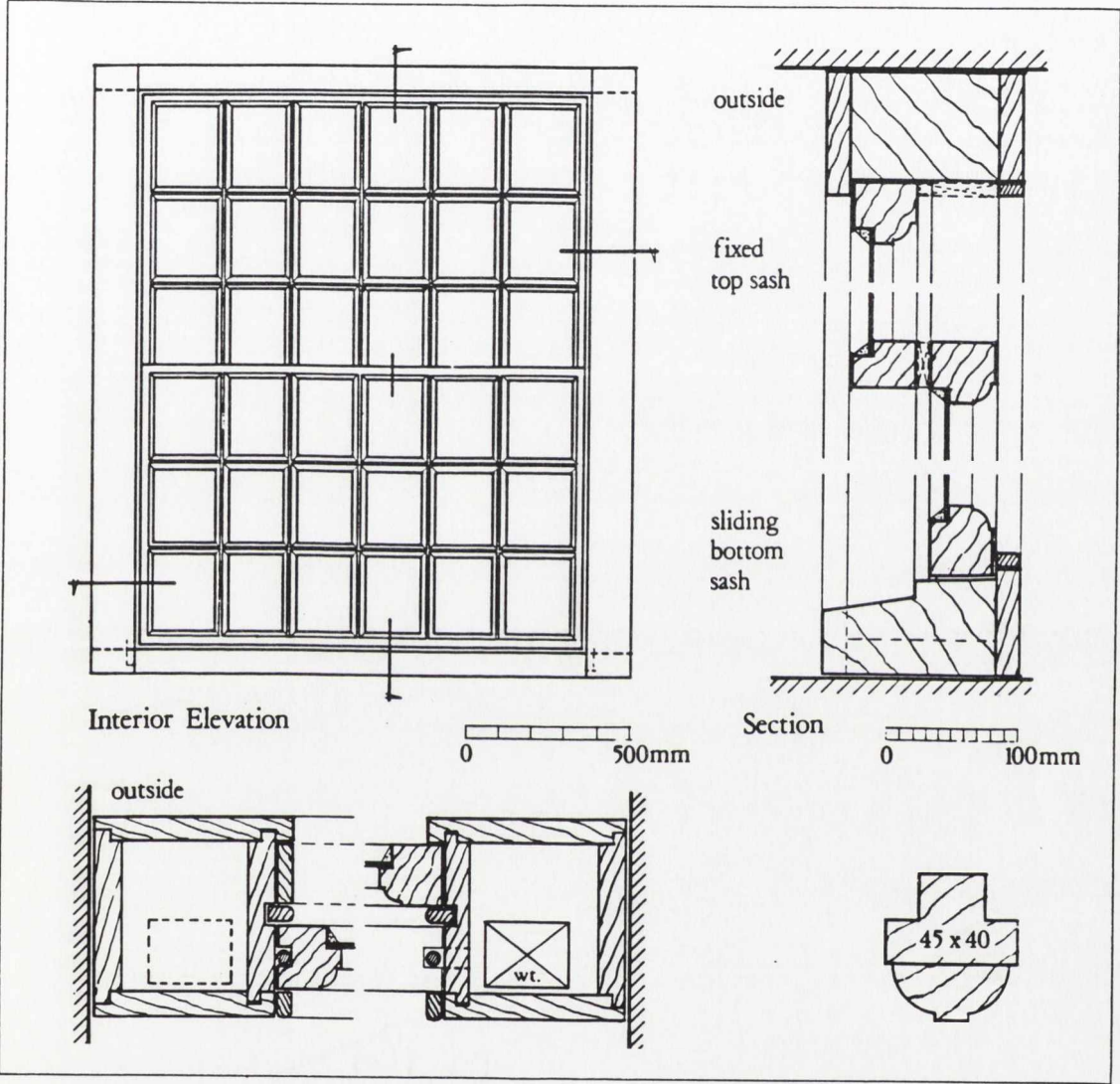


William Pain: Design of
timber doorcase.

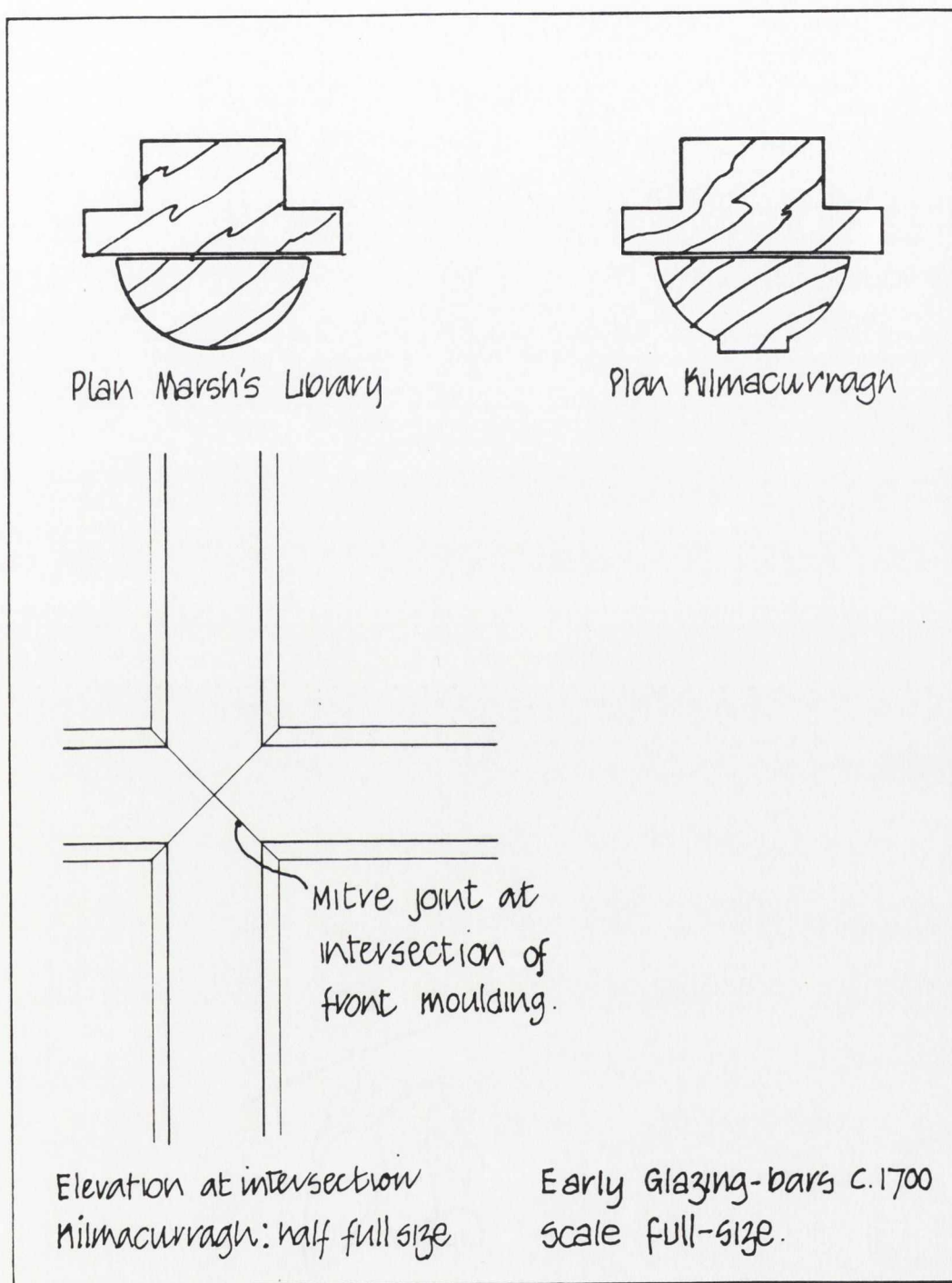
fig. 42



Title page of Robert Wood's, , fig. 44
 The ruins of Palmyra, 1753, with signature of
 Samuel Sproule.

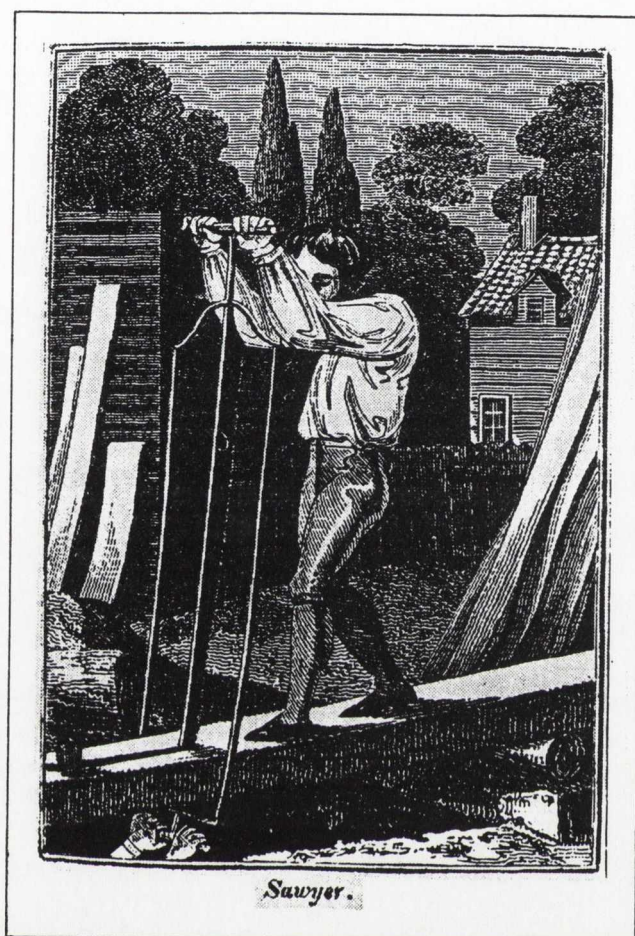


Hampton Court Palace: fig. 45
Construction of sash windows.



Survey of early eighteenth-century sash bars from Marsh's Library and Kilmacurragh, Co. Wicklow, c1700. These sash bars are made with two separate timber members and are nearly identical to those used in Hampton Court in the 1690's (see fig. 45)

fig. 46



The sawyer,
eighteenth-century engraving.

fig. 47

The Bill of scantling for the schoolmaster's house of Drogheda.

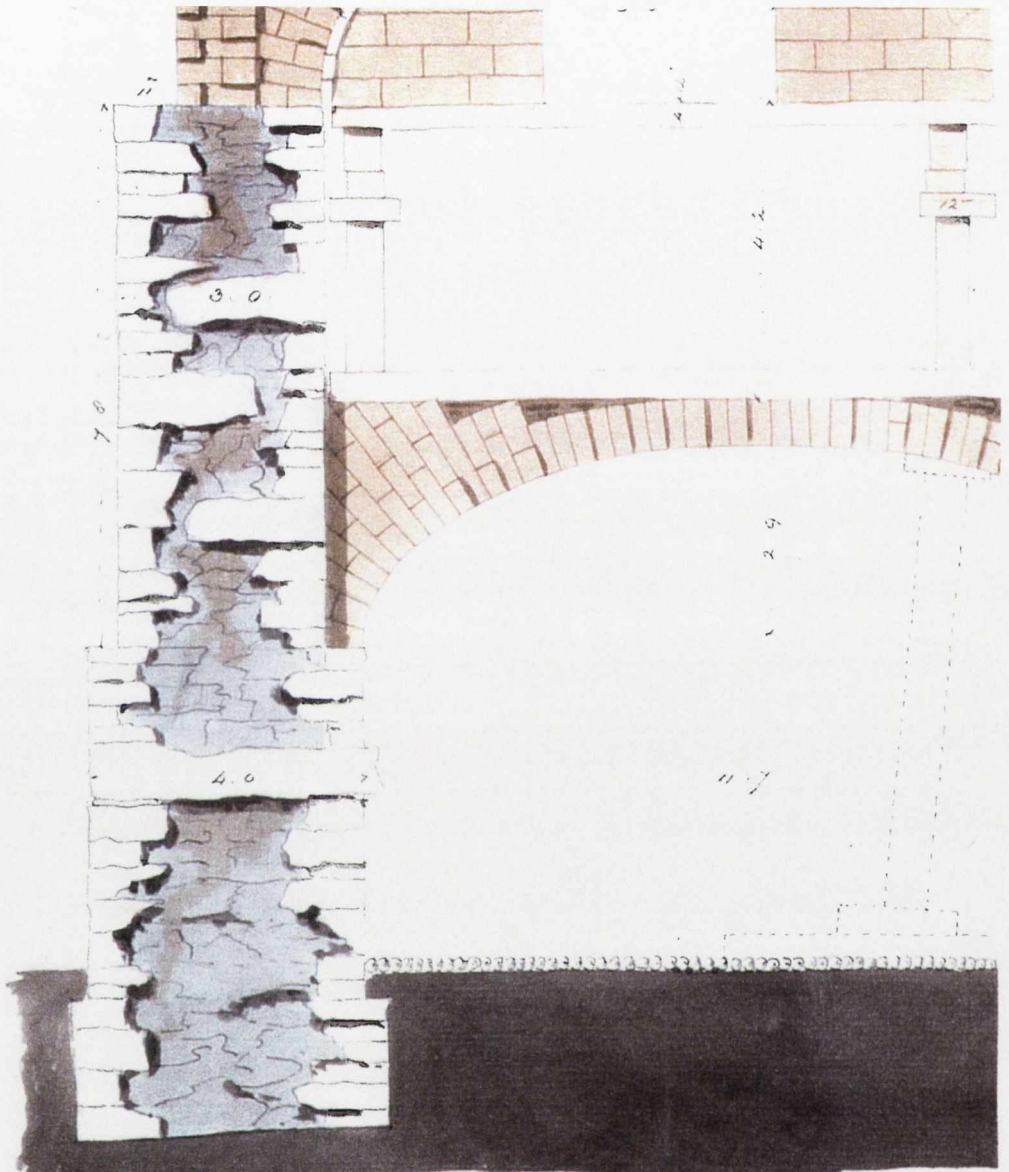
	Inches	Square
Flooring-beams. -----	12 x 8	
Joists. -----	10 x 2 1/2	
Ground-joists of oak. -----	4 x 4	
Trimmer joists. -----	10 x 3	
Trimmers to chimneys. -----	10 x 3	
Trimmers to stairs. -----	10 x 5	
Sleepers to stairs of oak. -----	6 x 4	
Lintels of oak. -----	5 x 4	
Dischargers in chimney breasts ditto -----	4 x 4	oak
Eills of windows oak -----	5 x 4	
Wall-plates oak. -----	8 x 5	
Girders. -----	12 x 10	
King-posts. -----	10 x 8	
Collar-beams. -----	12 x 8	
Principal rafters -----	{ Bottom 13 x 9 Top 8 x 7	
Hips -----	{ Bottom 13 x 6 Top 9 x 5	
Valleys -----	{ Bottom 7 x 7 Top 6 x 6	
Knee-plates -----	7 x 7	
Purlines -----	8 x 8	
Small rafters -----	5 x 2 1/2	
Diagonal beams -----	12 x 7	
Ceiling-joists. -----		
Sashes = one inch and three quarters thick.		
Inside door cases and oak eills -----	4 x 4	

Joists in the rooms to run from north to south

Drogheda Schoolmaster's House: Bill of scantling.

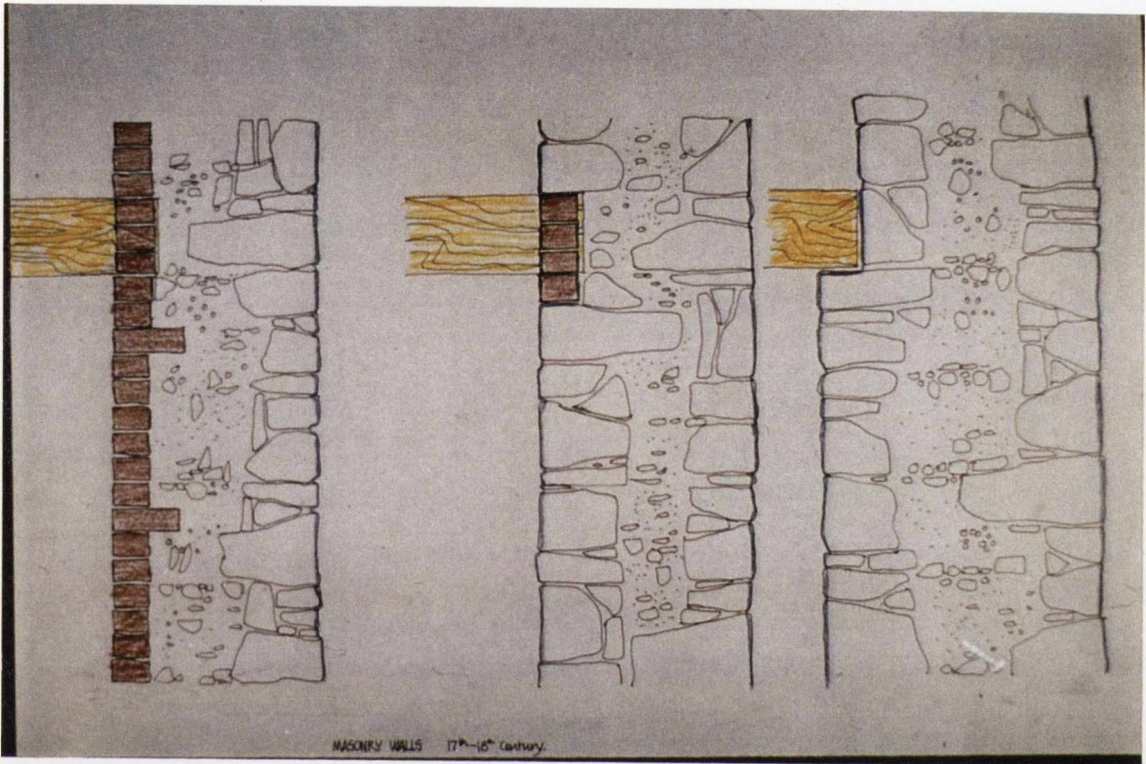


Compound wall construction fig. 49
in Ballycowan Castle, Co. Offaly,
1626 (above) and in Castlestrange,
Co. Roscommon, 1740's (below).



Brick Centers 25.0 x 5.6 = 137.6 Sup. of $\square$ x 7854 = 1080 Sq. Feet Approx.

James Gandon: Cross section fig. 50 of unidentified building showing compound wall of rubble stone with mortared core.



A

B

C

- A: Stone facings and brick linings, the most typical eighteenth century walling pattern.
- B: Stone walling (facings and linings) with brick courses forming pockets for joists.
- C: Medieval walling with stone facings and linings.

Compound Walls: Comparative fig. 51
cross sections showing medieval and
eighteenth-century methods of
construction.



Castlecoole, Co. Fermanagh, fig. 52
showing facades of dressed Portland
stone ashlar.



Goresgrove, Co. Kilkenny: The use of brick reveals at window opes and brick linings to limestone walls in mid eighteenth-century house. fig. 53



Kilmacurragh, Co. Wicklow fig. 54
c1700 and Castlestrange, Co.
Roscommon c1740: The use of
compound walls with internal brick
linings.



Bellamont Forest, Co. Cavan, c1730: fig. 55
The Palladian enthusiasm for brick facades from the late 1720's onwards promoted the manufacture and use of locally made facing bricks of quality in some inland areas.



Mount Ievers Court, Co Clare, fig. 56
1730's: The use of imported brick
facings.



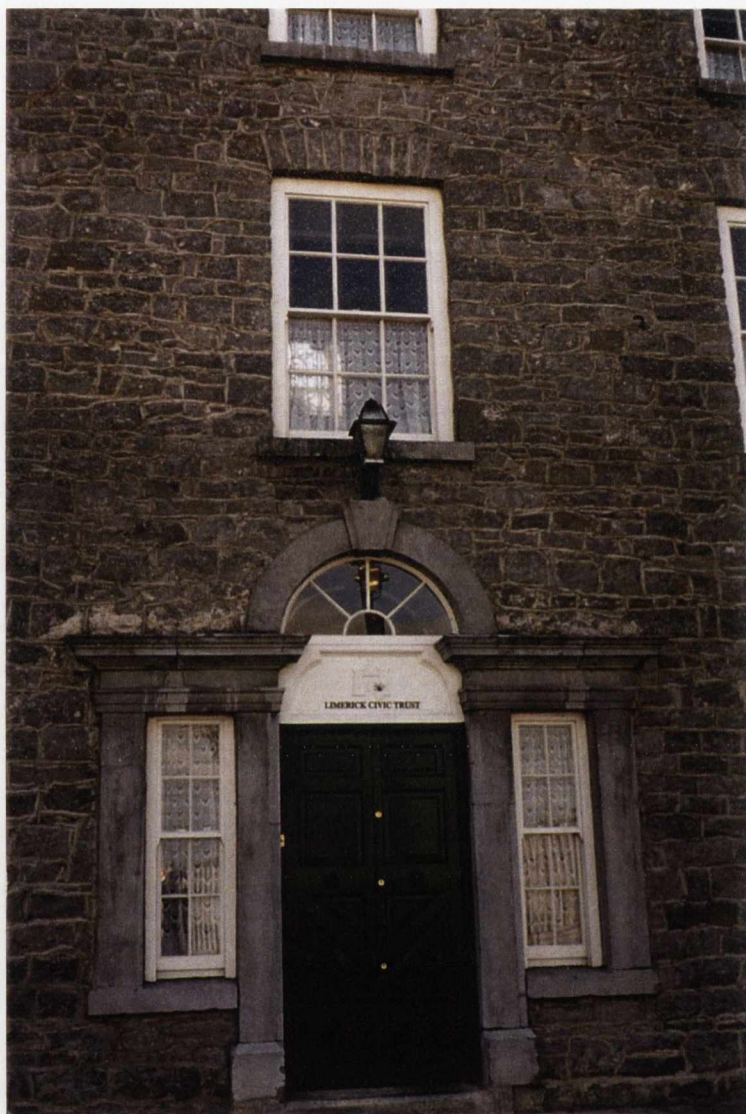
Dublin Castle: fig. 57
 Eighteenth-century brick facings.
 Brickwork was in continuous use on
 the castle facades from the end of the
 seventeenth century.



Beaulieu, Co. Louth: fig. 58
The use of rubbed brick reveals and
moulded brick entablature, c1722.



Castle Durrow, Co. Leix, 1716, showing provincial use of
fig. 59
coursed ashlar of considerable
irregularity.



The Bishop's Palace, Limerick, fig. 60
Limerick, showing early eighteenth-
century limestone facings of
considerable irregularity.



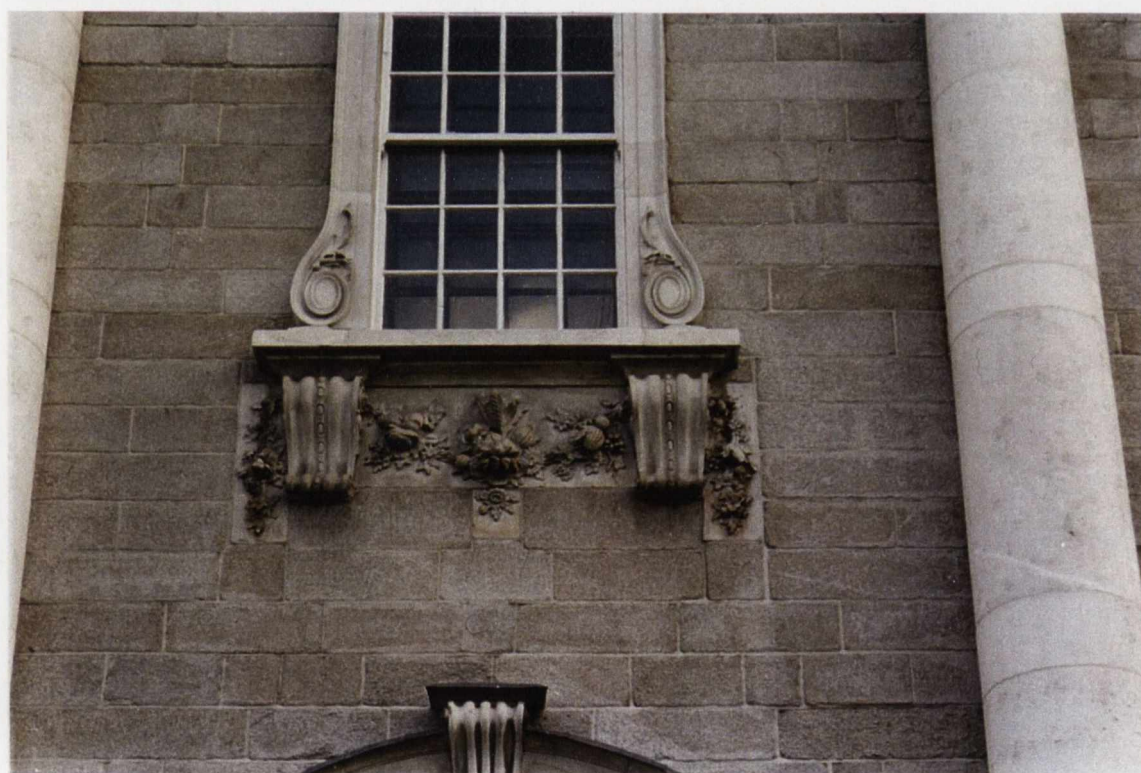
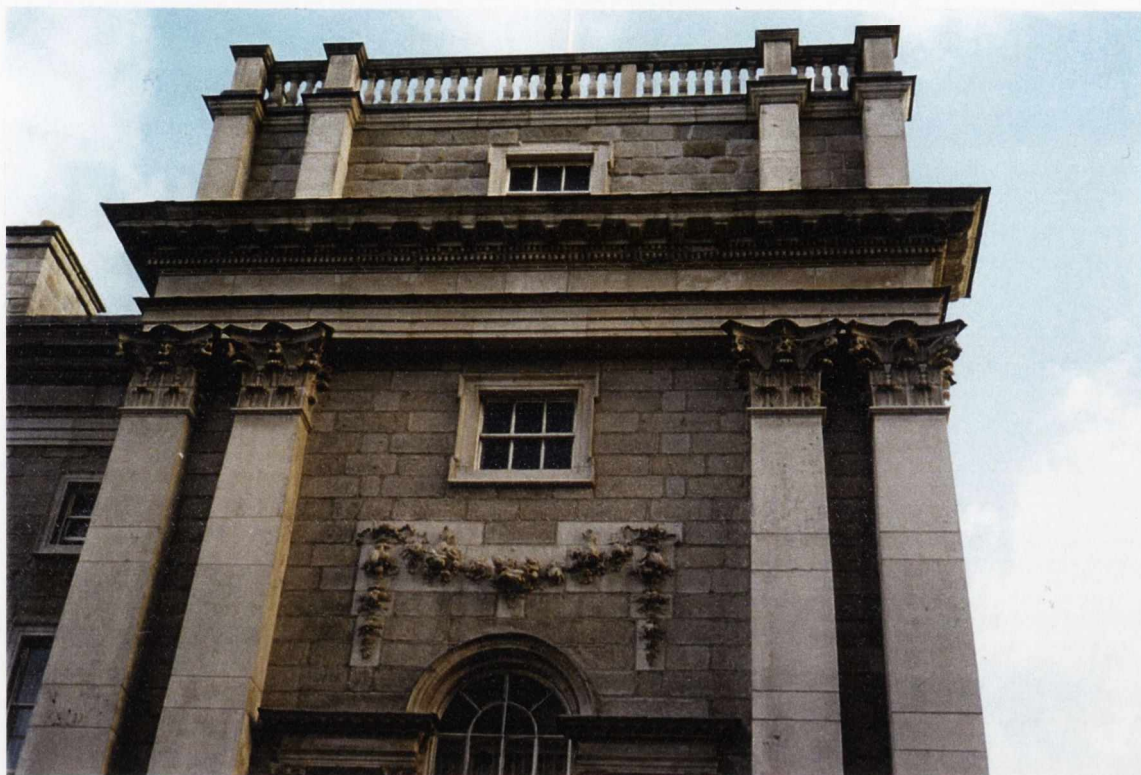
The Bishop's Palace,
Limerick and the Limerick Custom
House (1760's) compared. fig. 61



Dr. Steevens' Hospital: fig. 62
The courtyard showing calpstone
arcades built by the Dublin
stonecutter Moses Darley in 1720.



The Parliament House, fig. 63
Dublin showing the royal arms and
Ionic capitals carved by John
Houghton in the 1730's.



Trinity College Dublin: fig. 64
West front showing Rococo garlands
in Portland stone carved by James
Robinson in 1756.



The Tailor's Hall, Dublin 1740: fig. 65
Early eighteenth-century brick
facings.



Eyrecourt Co. Galway, fig. 66
showing extensive use of massive
structural timbers.



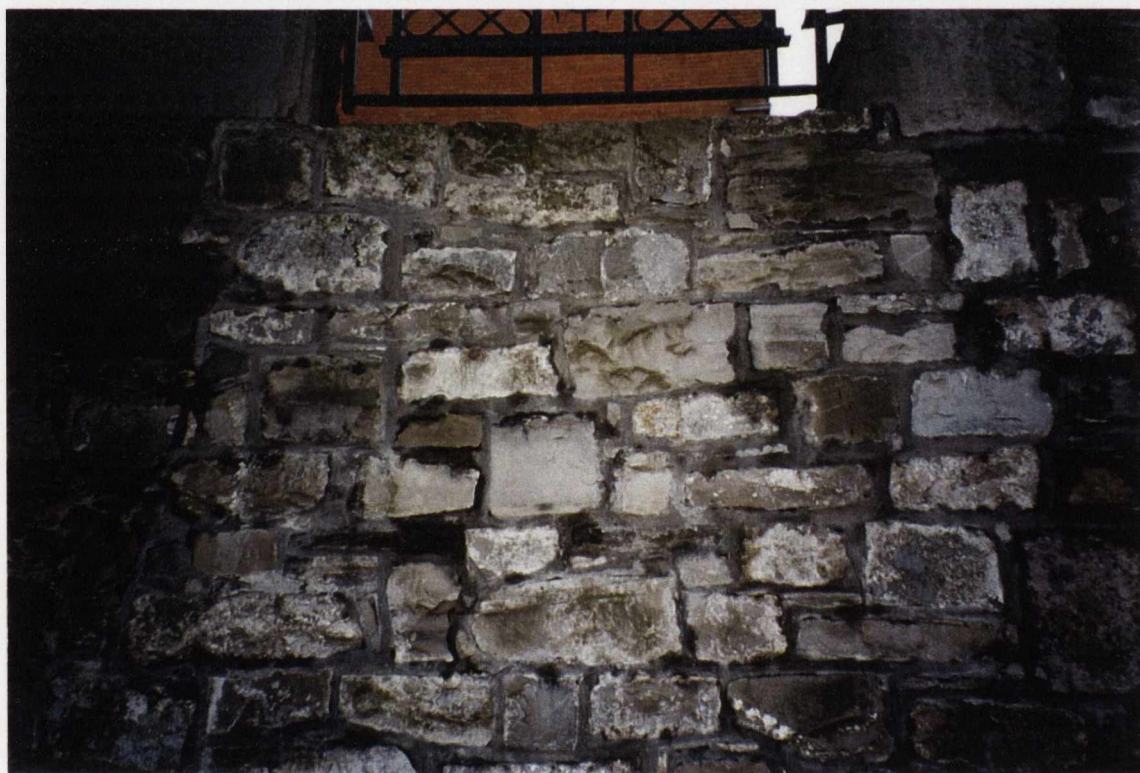
Dr. Steevens' Hospital: fig. 67
Compound wall with rubble stone
facings and internal linings.



Garretstown, Co Cork showing fig. 68
the use of brick linings to
accommodate joists, and rubble stone
linings where joist supports were not
required.



Charlesfort Kinsale (1750) above, fig. 69
and Tyrone House, Co. Galway (1790's)
below, showing joist pockets constructed
with bricks in stone walling.



St. Nicholas Within, Dublin 1707: fig. 70
Like nearly all Irish churches, built with
compound walls of local rubble.



Marshes Library,
Dublin c1700, showing use of gauged
arches with rubbed bricks. fig. 71



Askeaton Castle, Co. Limerick fig. 72
showing seventeenth-century use of
moulded bricks and brick reveals.



Cashel Palace:
Front facade c1730.

fig. 73



Ballyhaise, Co.Cavan, 1740's.

fig. 74



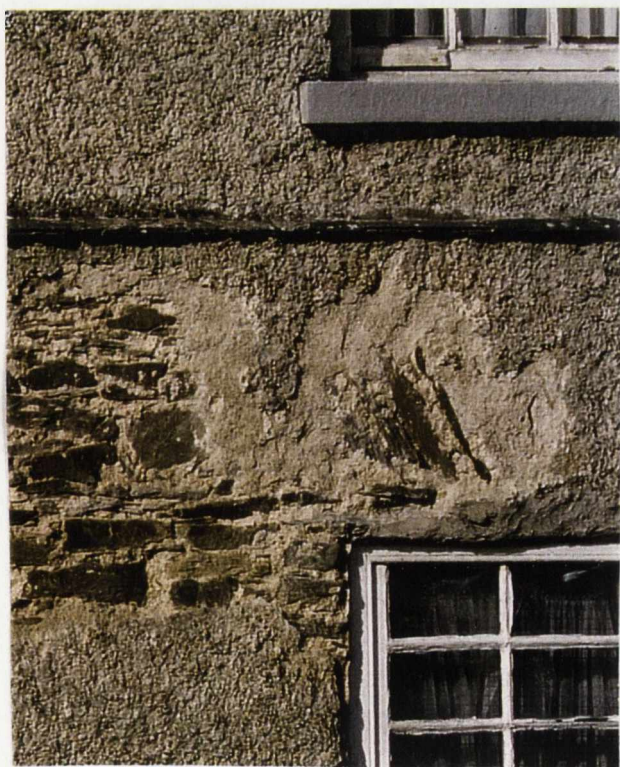
fig. 7
St. Nicholas Within,
Dublin 1707: Front facade of dressed
calp ashlar and compound walls of
calp rubble.



St. Patrick's Hospital, 1749: fig. 76
Coursed rubble walling with roughly
dressed coigns forming corners at
basement level.



Surviving fragment of Roman compound wall in the Roman Forum (above), and a c1740's compound wall with brick internal linings at Castlestrange, Co Roscommon (below). fig



Buncrana Castle, Co. Donegal, 1716: fig. 78
Walling of local shale quarried in the vicinity
of the site.



The use of locally quarried sandstone both as dressings and rubble facings in the early eighteenth-century Damer House, Roscrea.

fig. 79



The use of locally quarried limestone both as dressings and rubble facings in the Bishop's Palace at Elphin, 1747. fig. 80



The Main Guard, Clonmel:
The combination of sandstone
engaged columns and limestone
entablature.

fig. 81



Courthouse Clonmel, 1799: fig. 82
The combination of sandstone
engaged columns and limestone
capitals.



Trinity College Dublin: fig. 83
The front facade of the Provost's
House built c1760 with facings of
Ardbraccen limestone.



Trinity College Dublin:
The ground floor of Burgh's Library showing
the use of "cutting calp" quarried at
Palmerstown, Co. Dublin, in 1712.

fig. 84



Dr. Steevens' Hospital: fig. 85
The courtyard arcades showing the
use of "cutting calp" quarried at
Palmerstown, Co. Dublin, in 1720.



Parliament House Dublin, 1730: fig. 86
The combination of granite ashlar and
Portland stone entablature. This masonry
combination was used extensively in Dublin
during the eighteenth century.



Royal Hospital Kilmainham: fig. 87
Principal entrance portico showing
use of Portland stone pilasters with
carved timber Corinthian capitals.



Trinity College, Dublin: fig. 88
Corinthian capitals carved by James
Robinson c1756.



90



89

Newcomen's Bank 1780's:
Facade in Portland stone.

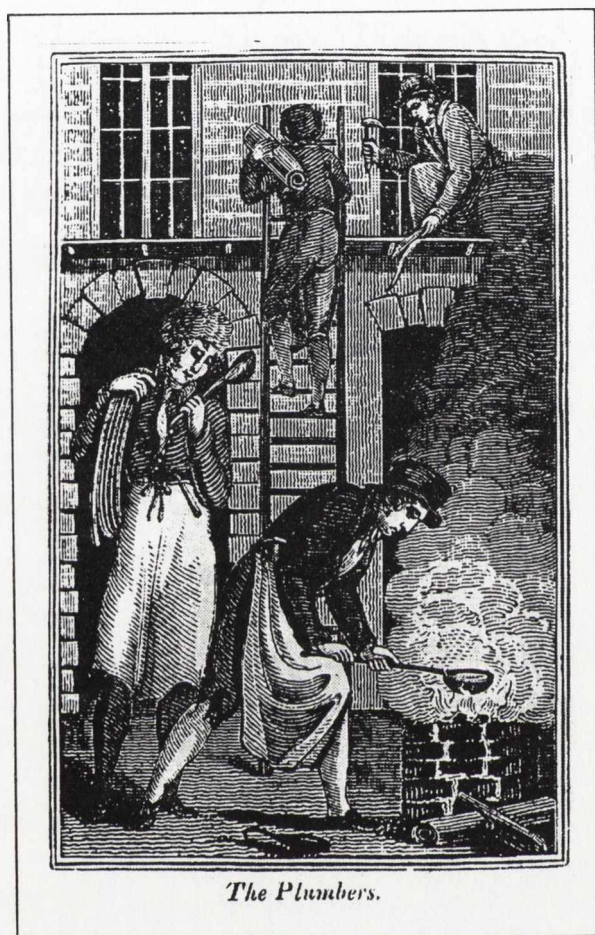
fig. 90

Royal Exchange 1770's:
Facade in Portland stone.

fig. 89



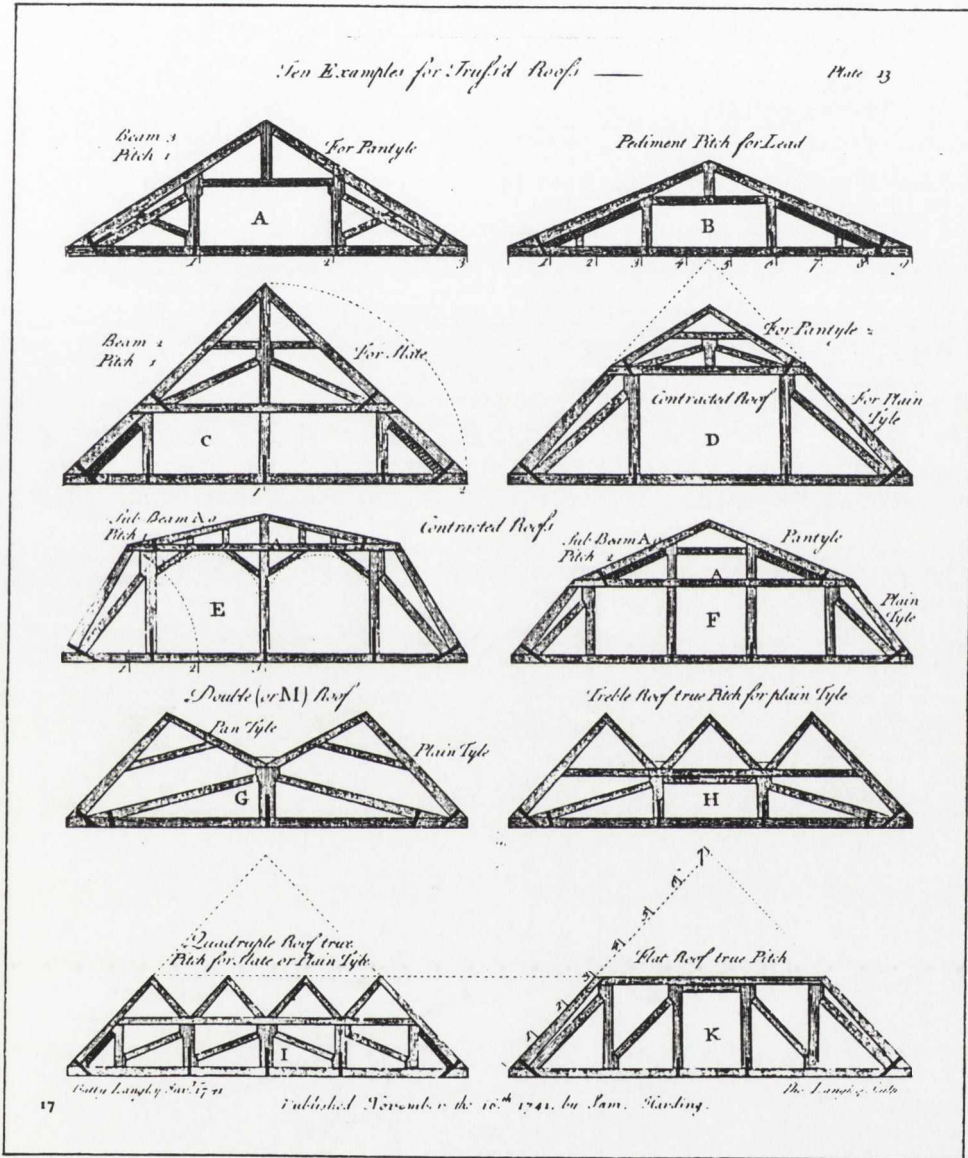
St. Werburgh's Church, Dublin, 1715: fig. 91
Massive compound walls of uncoursed rubble and a front (which is now revealed) of soft yellow sandstone similar to that used on Burgh's library in TCD in 1712.



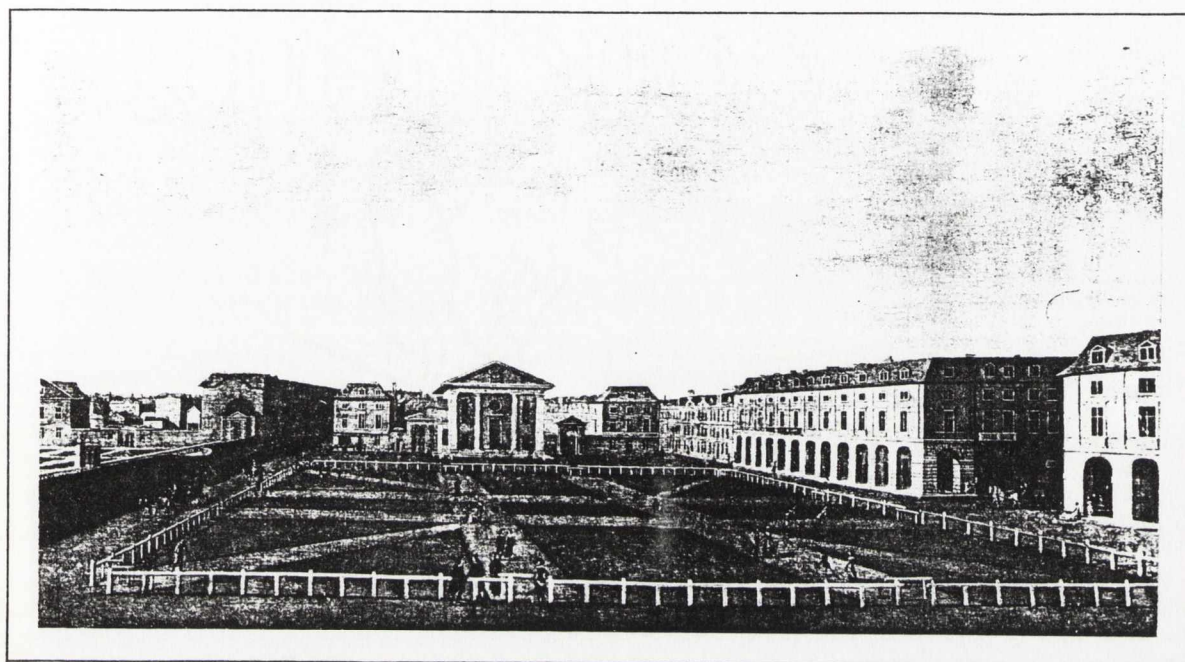
The Plumbers.

The plumbers, eighteenth-century engraving.

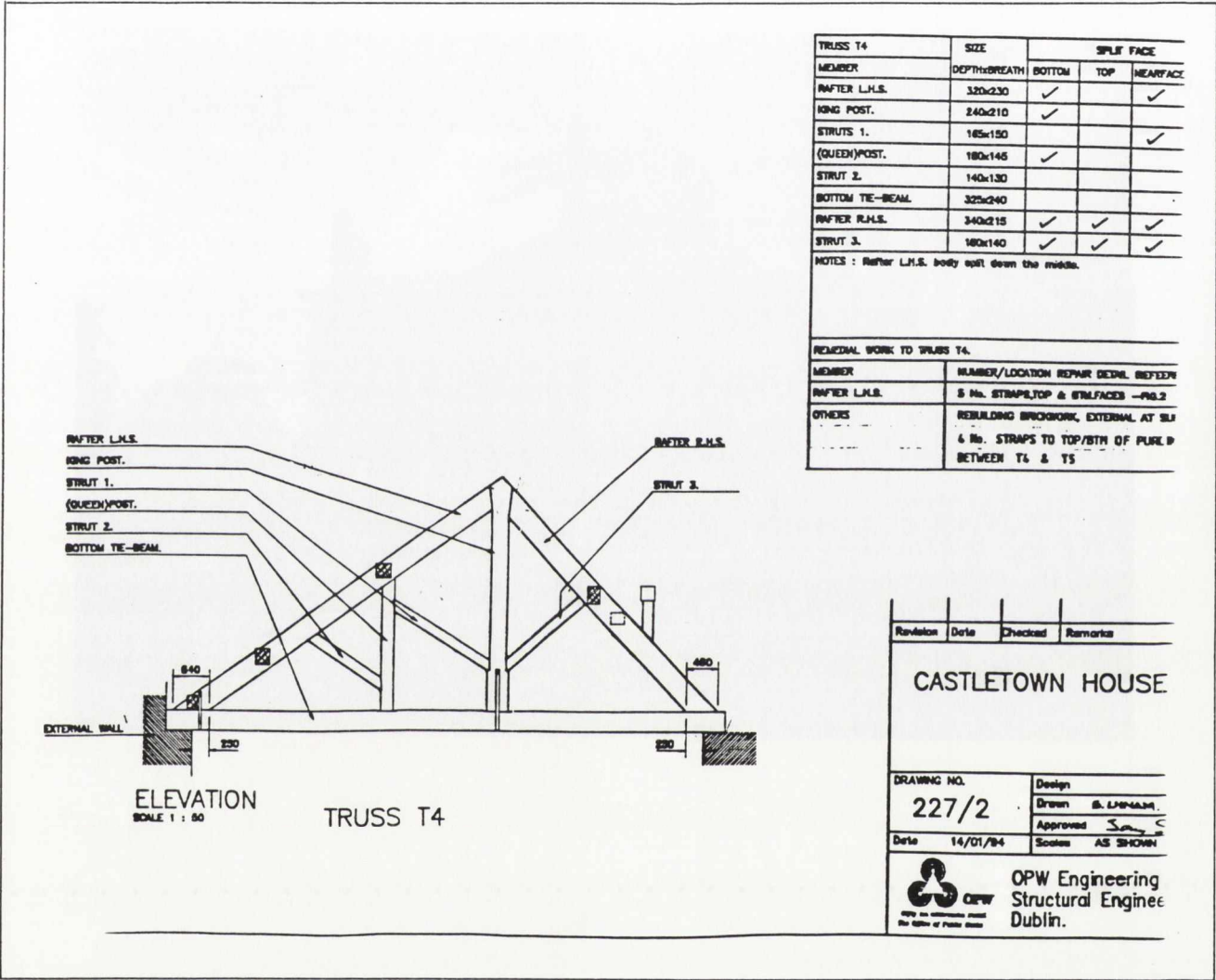
fig. 92



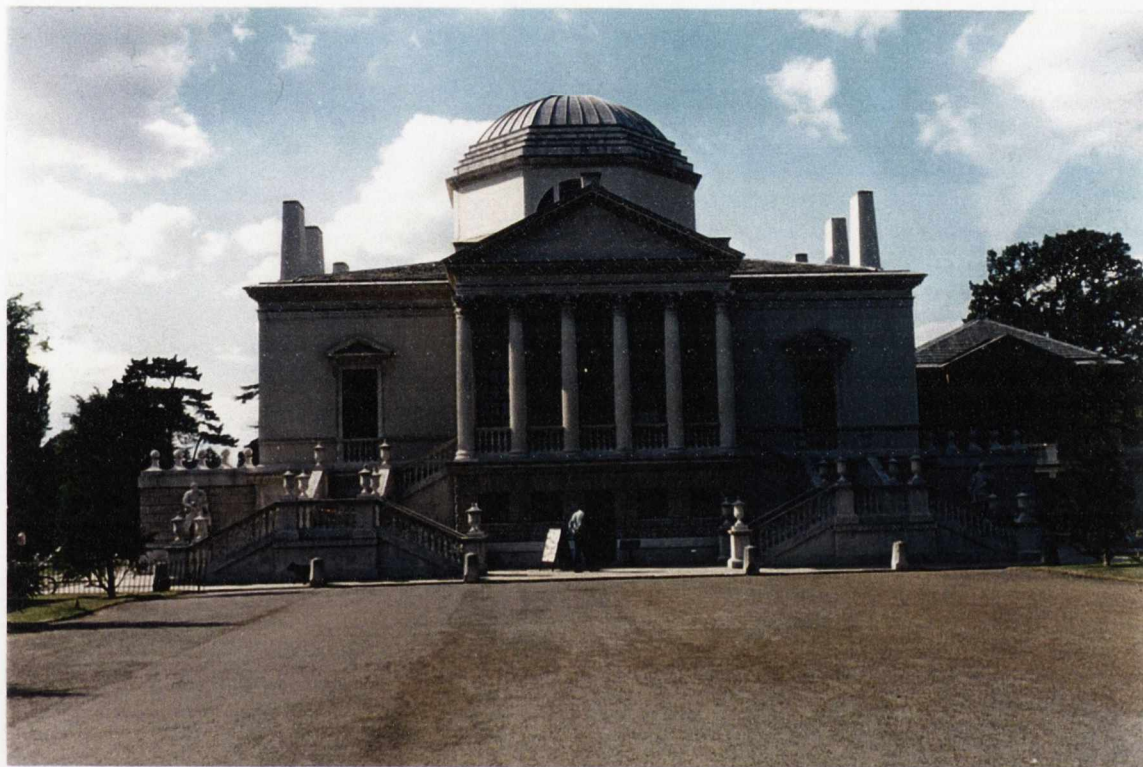
Batty Langley, an illustration of roof trusses with different pitches to accommodate roofing materials such as lead, slate and clay tiles. fig. 93



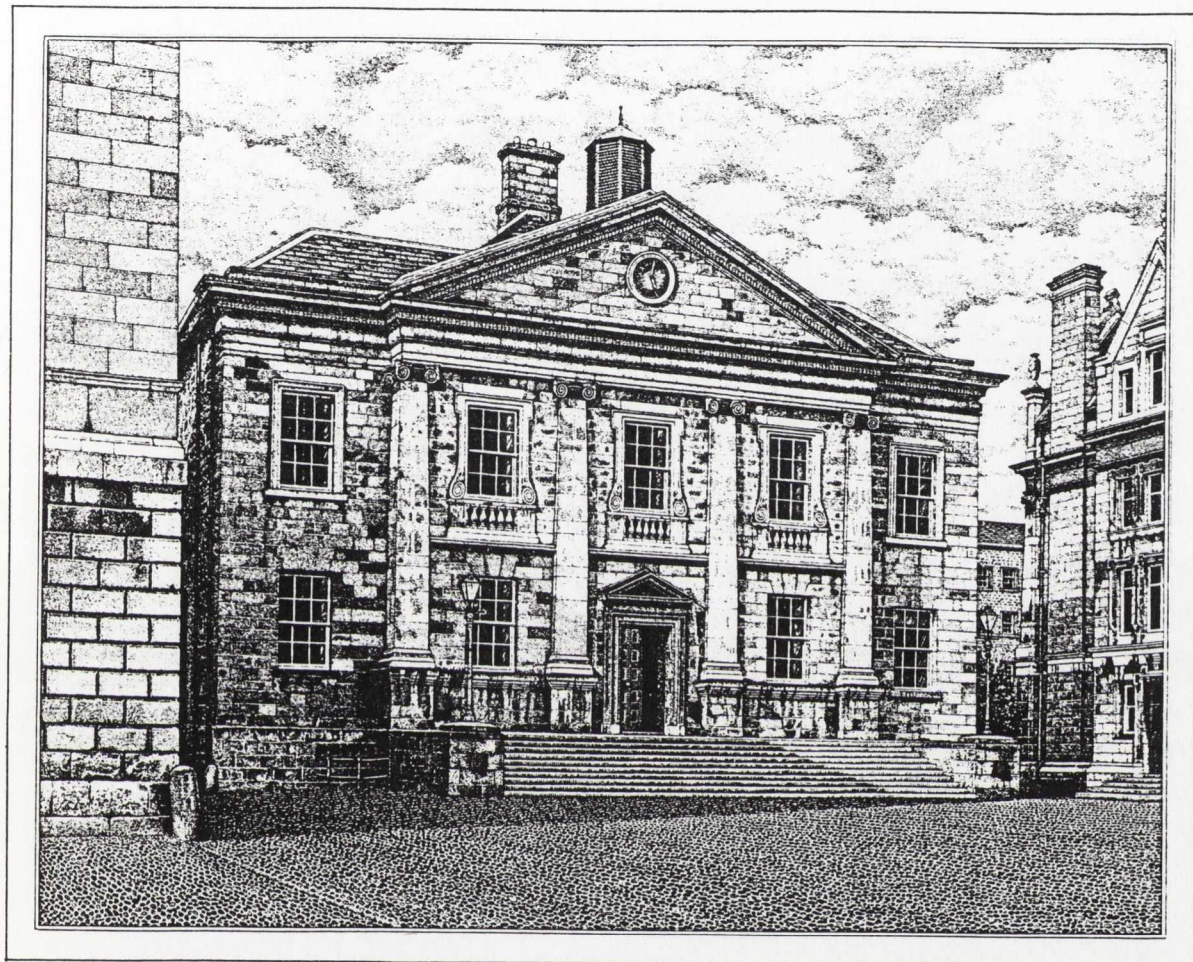
St. Paul's, Covent Garden, 1631, showing the low pitched
Palladian roof covered with pantiles. fig. 94



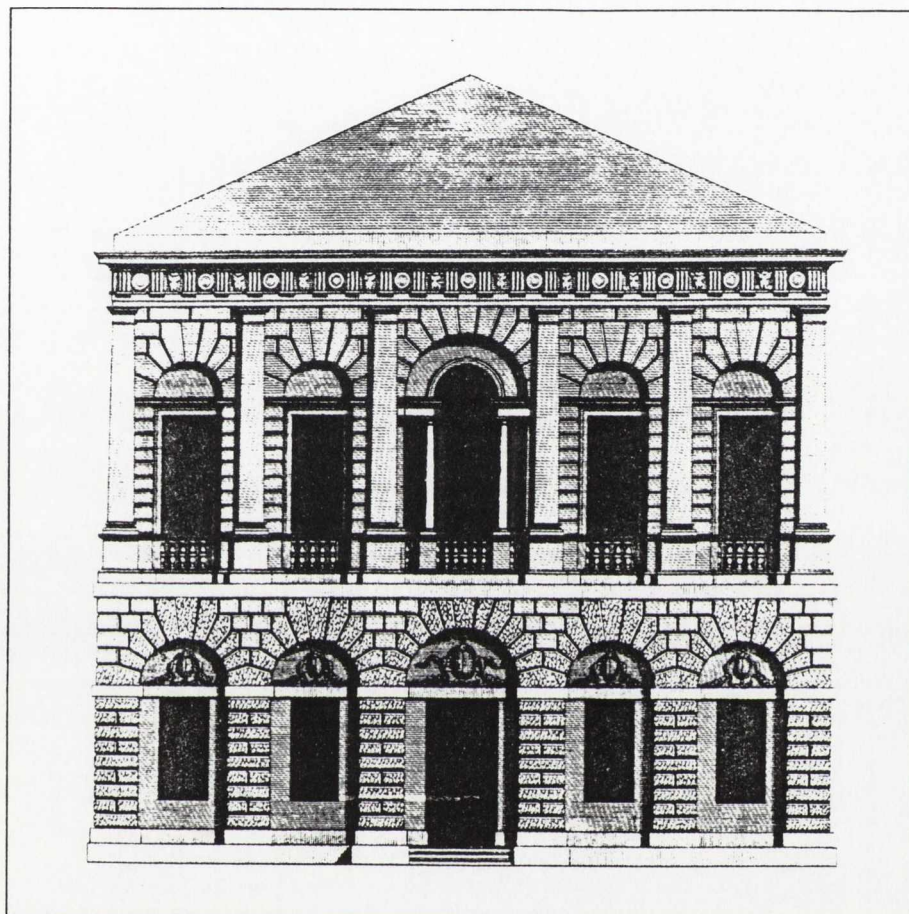
Survey of roof trusses used by Edward Lovett Pearce at Castletown, Co. Kildare in 1725. The outer slope is at an angle of 35 degrees, the inner slope to a valley gutter at 45 degrees. Similar trusses were used by Cassels at Leinster House in the 1740's. fig. 95



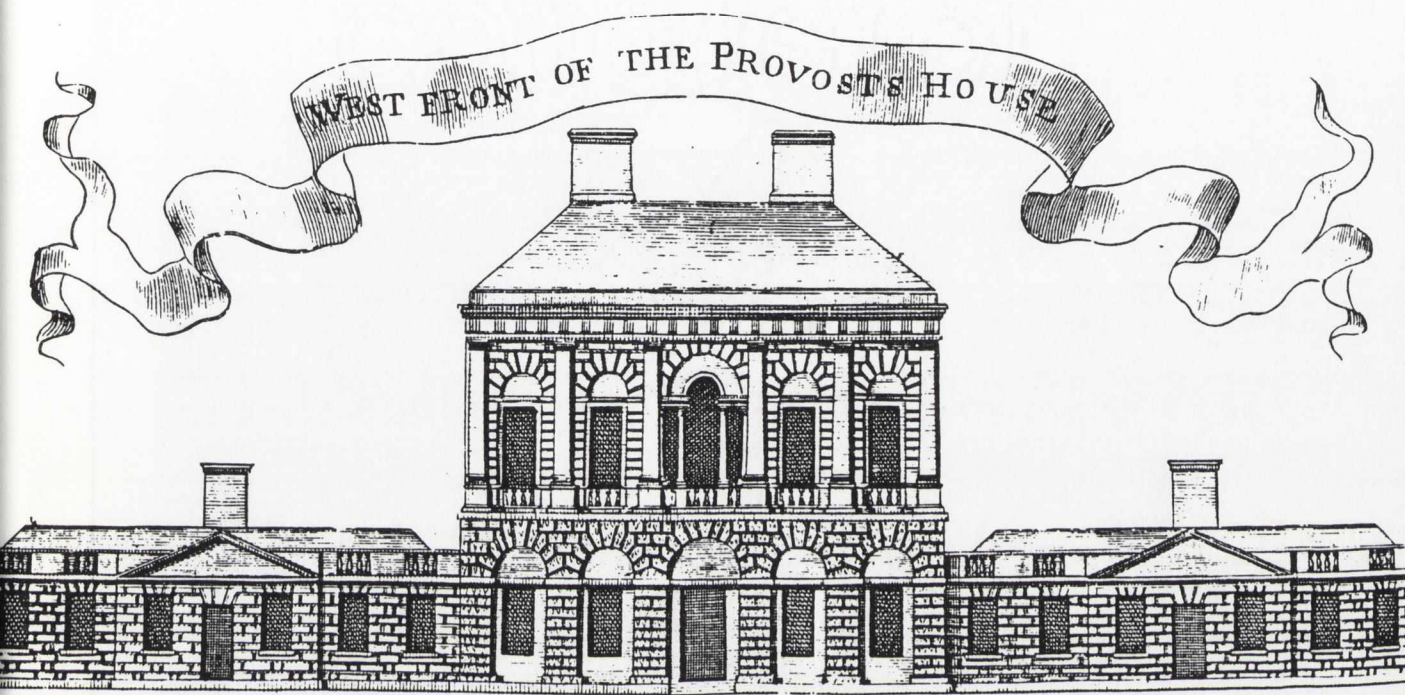
The Earl of Burlington's villa at Chiswick built in 1726 with low Palladian roof pitches. fig. 96



The Dining Hall, Trinity College, Dublin. fig. 97
 Cassels roofed this building with pantiles in 1744,
 presumably to accommodate a low pitch of about
 35 degrees. It was rebuilt in 1759 with a slated
 roof and a pitch of 40 degrees.



Elevation of the Earl of Burlington's design for General Wade's house at Piccadilly in 1723, showing its low Palladian roof pitch. fig. 98



The Provost's House, Trinity College, Dublin, 1759:
Obviously influenced by Burlington's elevation for General
Wade's house but designed with a high pitched roof.

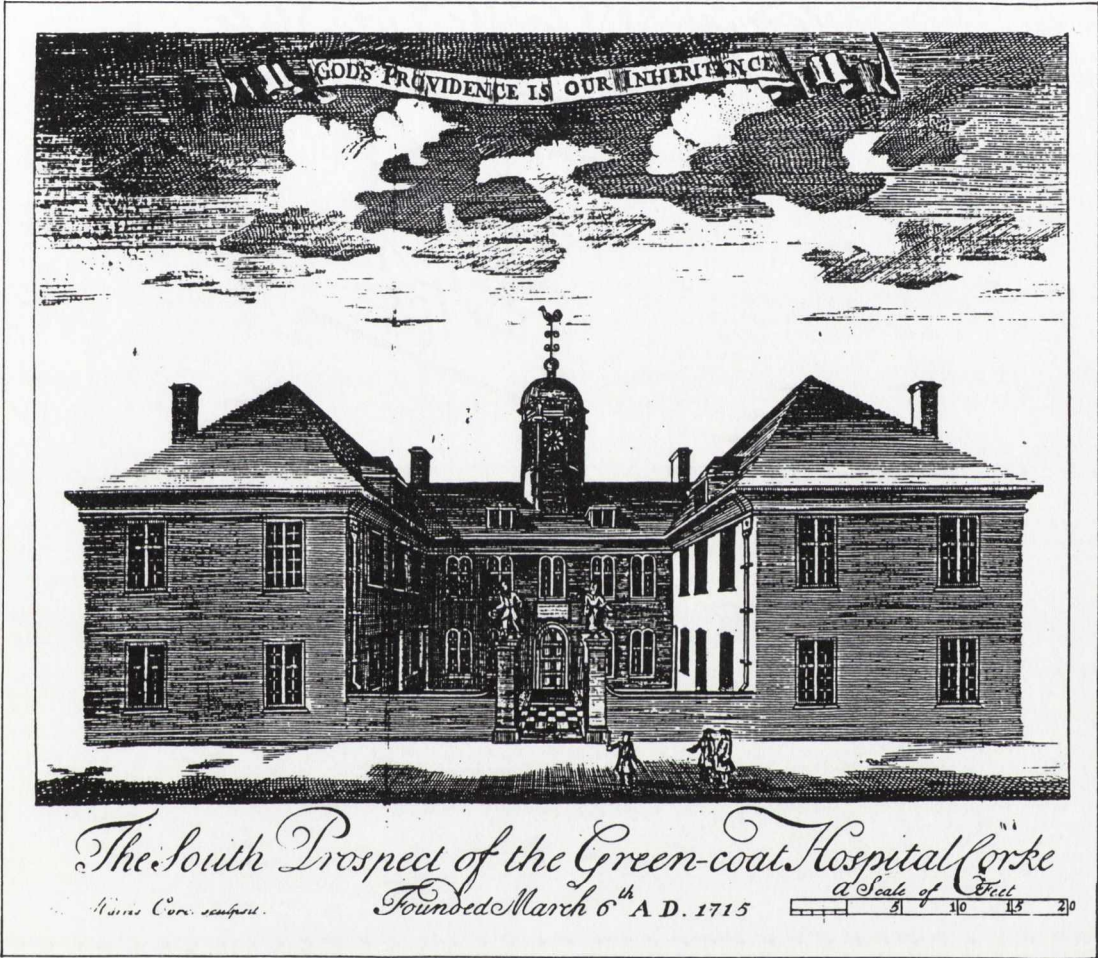
fig. 99



THOLSEL, DUBLIN.

London Publ'd by J. Malton & G. Curzon, Dublin, June 1795

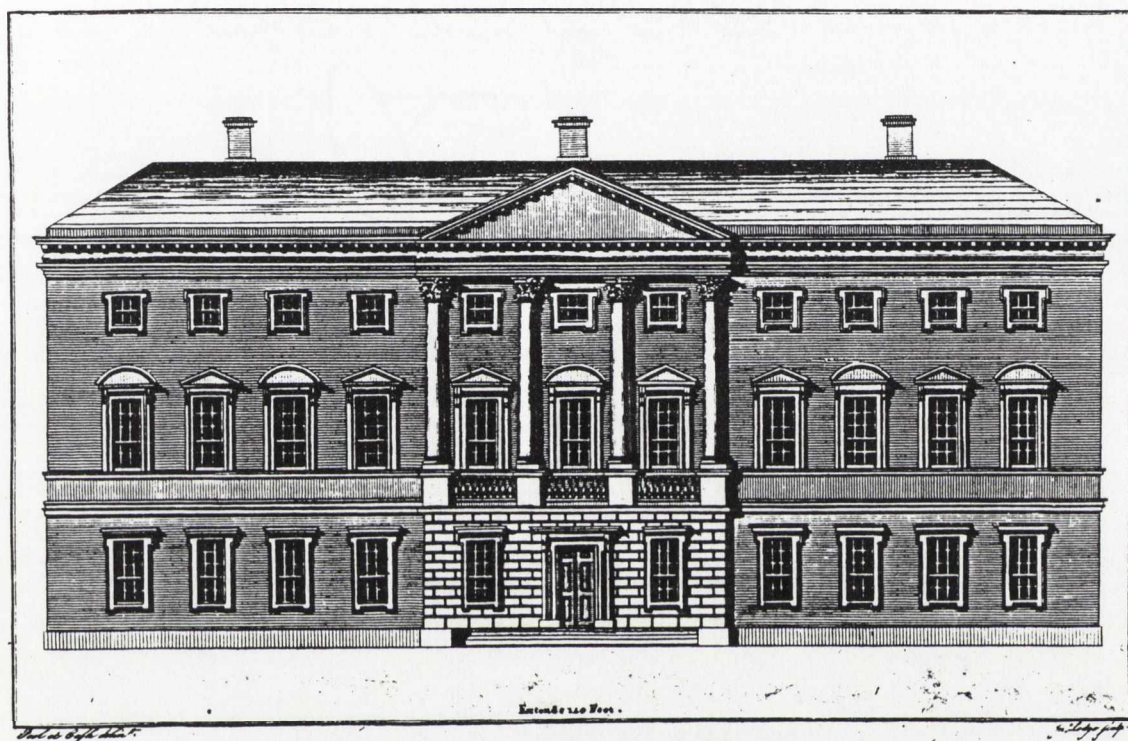
James Malton: fig. 100
The Tholsel, Dublin. The two
windows to the right of the balcony
are lead glazed transom windows
dating from the seventeenth-century.



The Greencoat School, Cork, 1715. fig. 101



Trinity College Library Dublin: fig. 102
Early eighteenth-century sash
window. This is probably the only
surviving sash window from the
original construction of the library.

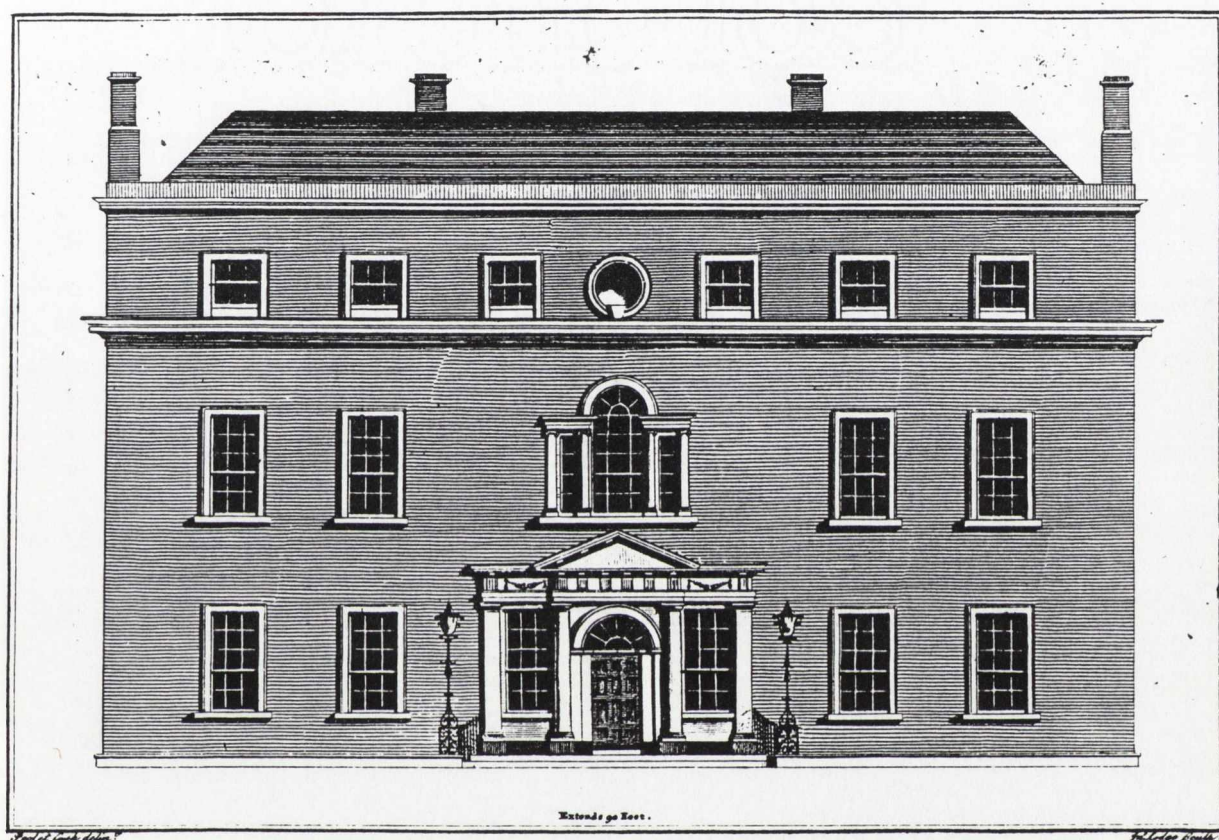


THE WEST FRONT OF LEINSTER HOUSE.

Published according to Act of Parliament January 1st 1779.

Leinster House, Dublin:
Elevation of front facade.

fig. 104



THE EARL of TYRONE'S HOUSE.

Published according to Act of Parliament. March 1st 1779.

Tyrone House, Dublin:
Elevation of front facade.

fig. 103



VIEW FROM CAPEL-STREET, LOOKING OVER ESSEX-BRIDGE DUBLIN.

London: Published Oct. 1785 by J. Malton.

James Malton: fig. 105
View of Capel Street and Essex
Bridge.

NOTES

Chapter 1

1. Linda Clarke, *Building capitalism*, Lon. 1992, 46.
2. Ibid, 47.
3. Gilbert Collection, Charter of Dublin guild of bricklayers and plasterers, mss. 81.
4. Henry Guinness, "Dublin trade guilds", *Jour. Roy. Soc. Antiquaries Ire.* XII (1922) 162.
5. Mary Clarke and Raymond Refaüssé, *Directory of historic Dublin guilds*, Dub. 1993, 22.
6. Rev. George Clune, *The medieval guild system*, Dub. 1943, 87.
7. Ibid, 99, 203.
8. Constantia Maxwell, *Country and towns in Ireland under the Georges*, Lon. 1940, 277.
9. Richard Caulfield ed. *The Council book of the corporation of the city of Cork*, Guilford, 1876, 311, 319.
10. J. Windele, *Historical and descriptual notices of the city of Cork*, Cork 1843, 104.
11. Robert Herbert, "The Trade Guilds of Limerick", *North Munster Antiquarian Jour.* Vol. II, No. 1, 1940.
12. Gilbert Collection, Charter of Dublin guild of bricklayers and plasterers, mss. 81.
13. Lim. City Archive, mss. minutes of Limerick guild of masons, bricklayers, slaters, plasterers, paviours, painters and limeburners, 9 June 1747.
14. *Commons' Jour.* V, 35 - 38.
15. Ibid, 56.
16. J.L. McCracken, "Protestant ascendancy, the rise of colonial nationalism, 1714-1760", *A new history of Ireland*, IV, (eds) T.W. Moody and W.E. Vaughan, Oxford, 1986, 118.
17. TCD mss. Patrick Stenton's accounts Mun. P2/1/34.
18. Charles T. Keating, "The guild of cutlers, painter stainers and stationers", *Jour. Roy. Soc. Antiquaries Irl.* XXX, (1900) 139.

Chapter 1

19. David T. Yeomans, *Construction History*, Vol. 4, 1988, "Managing eighteenth-century buildings" 16, 17.
20. Lim. City Archive, mss. minutes of the Limerick guild of masons, bricklayers, slaters plasterers, paviours, painters and limeburners, 17 Aug. 1747, 7 Feb. 1747/8, 4 Sept. 1751.
21. *Commons' Jour.* V, app. lxxv.
22. Ibid, app. lxxvii, lxxviii.
23. Dub. City Archive, typescript, Roll of the freemen of the city of Dublin.
24. Mary Amelia Rudd, *Records of the Rudd family*, Bristol 1920, 203; T.G.F.Patterson, *Harvest home*, Dundalk 1975, 141.
25. TCD. mss. Francis Quinn's accounts Mun. P2/36/19.
26. *Commons' Jour.* IV app. xxxiii, xxxiii.
27. Dub. City Archive, typescript, Roll of the freemen the city of Dublin.
28. George Semple, *A treatise on building in water*, Dub. 1776.
29. Christine Casey, Books and builders, Phd. Thesis, TCD, 1991, 15-17.
30. Anon, *History of a pickle herring or the adventures of Buttermilk Jack*, Dub. 1760, 3.
31. *CARD* XIV, 287, 440, 544.
32. Nat. Lib. Irl. Clements papers, mic. film, P3753.
33. Christine Casey, Books and builders, Phd. Thesis, TCD, 1991, 16.
34. T.G.F. Patterson, *Harvest home*, Dundalk 1975, 141.
35. Mary Clarke and Raymond Refaüssé, *Directory of historic Dublin guilds*, Dublin 1993, 22
36. TCD, mss. William Caldebeck's accounts Mun. P2/2/22.
Francis Quinn's accounts Mun. P2/36/19.
John Morris's accounts Mun. P2/69/13,14.
Gilbert Plummer's accounts Mun.P2/68/38.
John Semple's accounts Mun.P2/137/2.
37. *Commons' Jour.* V, cxxx, xii.

Chapter 1

38. Thomas Humphreys, *The Irish builder's guide*, Dub, 1813, 169.
39. Joseph Moxon, *Mechanick exercises*, Lon. 1695, 118.
40. TCD, mss. John Sisson's accounts, Mun. P2/19/26, 27 P2/24/1.
41. TCD, mss. Isaac Wills' accounts, Mun. P2/38/43, 44.
42. Joseph Moxon, *Mechanick exercises*, Lon. 1695, 99.
43. TCD mss. Isaac Wills' accounts Mun. P2/40/45.
44. TCD mss. John Kelly's accounts Mun. P2/52/13, P2/84/6.
45. Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1771, 184.
46. Peter Rankin, *Irish building ventures of the Earl Bishop of Derry*, Belfast, 1975, 17, 24.
47. Nat. Archives, Roy. Hosp. Kilmainham minutes, VII, 31 Oct. 1804, RHK, 1/1.
48. TCD, mss. Richard Cassels' accounts Mun. P2/85/10.
49. TCD, mss. Abraham Heatley's accounts Mun. P2/60/1.
50. TCD, mss. George Delane's accounts, Mun. P2/32/9;
John Rowlett's accounts, Mun P2/70/18.
51. TCD, mss. George Delane's accounts, Mun. P2/22/11.
52. Hist. Man. Commission, Ormonde papers, NS. V 292.
53. CARD, V, 310; TCD, mss. George Delane's accounts, Mun. P2/24/10-13.
54. Levi Hodgson, *The Modern measurer*, Dub. 1793, 104, 105.
55. TCD, mss. Nathaniel Spencer's accounts, Mun. P2/24/21.
George Spike's accounts, Mun. P2/33/25.
William and John Wall's accounts P2/34/11.
Mun. P2/28/3, P2/69/19, P2/70/20, 21, 22.
56. CARD V, 145, 146.
57. Richard Colley, *An Account of the foundation of the Royal Hospital of King Charles II*, Dub 1725, 13.

Chapter 1

58. Irish Arch. Archive, Thomas Eyre's letter books, letter to Captain Vallancey, 2 Aug. 1756. 59, 81/88.
59. TCD, mss. Dr. Steevens' Hosp. papers, 1327.
60. Nat. Lib. Irl., Flower papers, mss. 11455 (1).
61. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
62. TCD, mss. Dr. Steevens' Hosp. papers, 1327.
63. Ibid, 124.
64. Rolf Loeber, *A biographical dictionary of architects in Ireland*, Lon. 1981, 71.
65. PRO. Lon. Will of William Robinson, dated 21 Aug. 1686, 1.357.
66. Rolf Loeber, *A biographical dictionary of architects in Ireland*, Lon. 1981, 33.
67. TCD, mss. proposals for building a Printing House, Mun. P2/65/1,2,3.
68. *Commons' Jour.* IV, app. xxxii, xxxiii.
69. Edward McParland, "The surveyor general in Ireland", *Architectural History*, 38, (1995) 98.
70. Ibid, 98.
71. Ibid, 97.
72. Ibid, 98.
73. Ibid, 99.
74. TCD, mss. Richard Cassels' accounts, Mun. P2/68/4.
75. Edward McParland, "The surveyor general in Ireland", *Architectural History*, 38, (1995) 97.
76. Ibid, 97.
77. TCD, mss. see the Muniments P2 series of tradesmen's accounts.
78. *Commons' Jour.* VI, app. ccxi, app. ccxiii, app. ccxli, app. ccxxxiv.
79. Ibid.

Chapter 1

80. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
81. TCD, mss. see the Muniments P2 series of labourers' accounts.
82. *Commons' Jour.* VI, app. ccxxiv, app. ccxxv, app. ccxxxiv.
83. Irish Arch. Archive, Thomas Eyre's letter book, Eyre to Clarke, 28 Sept. 1756, 81/88
84. Ibid.
85. *Commons' Jour.* V, app. ccxxxvii.
86. Ibid, app. xcix.
87. Irish Arch. Archive, Thomas Eyre's letter book, Eyre to Vallancey, 12 March 1757, 81/88.
88. TCD, mss. George Darley's accounts, Mun. P2/145/3, John Reed's accounts Mun. P2/144/11.
89. TCD, mss. George Darley's accounts, Mun. P2/173/1.
James Elliot's accounts, Mun. P2/163/21.
William Pike's accounts, Mun. P2/163/33.
90. Nat. Archives, Roy. Hosp. Kilmainham minutes, VIII, 6 Dec. 1805, RHK, 1/1.
91. Richard Colley, *An account of the foundation of the Royal Hospital of King Charles II*, Dub. 1725, 23.

NOTES

Chapter 2

1. TCD mss., James Morris's accounts, Mun. P2/65/2.
2. TCD mss., James Mc Cleery's accounts, Mun. P2/65/3.
3. A square of flooring or slating was 10 ft. x 10 ft. or 100 sq. ft. The 1767 Dublin edition of William Hawney's *The complete measurer* defines a perch of masonry as 21 feet in length, 1 foot in height by the thickness of the wall.
4. TCD mss., Nathan Hall's accounts, Mun. P2/25/9, 42, 43.
5. Richard Colley, *An Account of the foundation of the Royal Hospital of King Charles II*, Dublin 1725, 13, 14.
6. Pub. Rec. Office Lon. Estimate for rebuilding Dublin Castle, T1/387/96.
7. TCD. mss., William Caldebeck's accounts, Mun. P2/27/2, 3, P2/27/4
8. TCD mss., Francis Quinn's and William Caldebeck's accounts, Mun. P2/48/1.
9. Nat. Lib. Irl. Flower papers, mss. 11455 (1.2)
10. Pub. Rec. office N. Irl. mss. Dean Hearn to Archbishop of Cashel, D.562/458.
11. Pub. Rec. office N. Irl. Abercorn papers, mss. D623/C/3/1.
12. Pub. Rec. office N. Ir. mss. Dean Hearn to Archbishop of Cashel, D562/458.
13. Nat. Lib. Irl. Flower papers, mss. 11455 (1)
14. TCD mss., Moses Darley's accounts Mun. P2/66/8, John Rowlett's accounts Mun. P2/68/44.
15. TCD mss. Dr. Steevens' Hospital papers, 1327.
16. Pub. Rec. office N. Irl. mss. Wilmot papers, Neville to Weston 15 Apr. 1749, T3019 / 1317.
17. Malcolm Burrows FRICS, "Measurers of architecture 1750-1850" *Chartered Quantity Surveyor* Dec. 1980, 23.
18. TCD mss., George Plummer's accounts Mun. P2/85/13, 32, Thomas Heatley's Accounts Mun. P2/84/5, p2/885/11.
19. TCD mss., William Caldebeck's accounts Mun. P2/19/1.
20. Linda Clarke, *Building capitalism*, Lon. 1992, 82.

Chapter 2

21. TCD mss., Charles Brooking's accounts Mun. P2/49/1, P2/53/4
22. Nat. Lib. Irl. Kells' church accounts, mss. 25304.
23. *Freeman's Journal*, 27-31 Dec. 1769.
24. *CARD VI*, 477.
25. TCD mss., John Semple's account's Mun. P2/37/2.
26. Rolf Loeber, *A biographical dictionary of architects in Ireland*, Lon. 1981, 35.
27. J.W. Stubbs, *History of the University of Dublin*, 1889, 174.
28. *Commons' Jour.*, IV, app. cclxxix.
29. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
30. Linda Clarke, *Building capitalism*, Lon. 1992, 137.
31. TCD mss., Richard Cassell's accounts, Mun. P2/80.
32. *Commons' Jour.*, VI, app. xiii.
33. *Wren Soc. Vol.*, XVI, 167
34. TCD mss., Thomas Heatley's accounts, Mun. P2/85/11, 13.
35. Linda Clark, *Building capitalism*, Lon. 1992, 82.
36. Brit. Lib. Egmont papers, mss. 46946/7.
37. Irish Arch. Archive, Boyle papers, Blessington Manor, photocopies.
38. *Commons' Jour.* V. app. cvi
39. *Commons' Jour.* V, app. ccxxviii
40. Edward McParland, Unpublished research on military barracks and fortifications in Ireland.
41. *Commons' Jour.* V, app. lxxviii
42. Edward McParland, "The surveyor general in Ireland", *Architectural History*, Vol. 38, 1995, 98.
43. *Ibid*, 98.
44. *Ibid*, 98.

Chapter 2

45. Linda Clarke, *Building capitalism*, Lon. 1992, 82.
46. *Commons' Jour.* V, app. lxxxviii, app. lxxvii
47. Ibid, app. lxxvii, app. lxxix
48. Ibid, app. xc, xci
49. Ibid, app. xc
50. Ibid, app. cccxxiii
51. Ibid, app. xcvi
52. Ibid, app. lxxxviii, app. lxxxix, app. xc
53. Ibid, app. lxxv, app. lxxvi, app. lxxvii
54. Ibid, app. xc, app. xci
55. Ibid, app. lxxxvii
56. Ibid, app. lxxviii, app. lxxix, app. xciv
57. Ibid, app. civ.
58. Edward McParland, unpublished research on military barracks and fortifications in Ireland.
59. Ibid,
60. *Commons' Jour.* V. app. xcix.
61. Ibid, app. xci.
62. Ibid, app. xcvi.
63. Ibid, app. xcvi.
64. Ibid, app. cxi, cxiv, cxv, cxvi.
65. Ibid, app. xciv.
66. Ibid, app. lxxviii.
67. Ibid, app. lxxviii.
68. Ibid, app. xc
69. Ibid, app. xciv.

Chapter 2

70. Ibid, app. lxxviii.
71. Ibid, app. cv, cvi.
72. Ibid, app. lxxvii.
73. Kenneth Severens, *Charleston, antebellum architecture and civic destiny*, Knoxville 1988, 10,
74. *Commons' Jour.* V app. lxxv, app. lxxci, app. lxvii.
75. Ibid, app. xc, app. xci.
76. Ibid, app. lxxxix.
77. Ibid, app. lxxxviii, app. lxxviii, app. lxxvii, app. xciv.
78. Law accepted the standards of workmanship and materials at Tullamore but the military report was highly critical of its standards.
79. *Commons' Jour.* V, app. cvi.
80. Ibid, app. lxxxvii, lxxxviii.
81. Ibid, app. xcvi
82. Ibid, app. lxxv.
83. Ibid, app. lxxviii, app. lxxix.
84. Ibid. app. xciv, app. lxxxix, app. xcvi.
85. Ibid, app. civ.
86. Irish Arch. Archive, mss. the General Accompt of Thomas Eyre, 24, 27, 28,36, 46, 81/88.
87. Nat. Lib. Irl. Pakenham Mahon papers, mss. 10,770(2)
88. Nat. Lib. Irl. mic. film, P.3147.
89. Nat. Lib. Irl. mic. film, P.1014.
90. *Georg. Soc. Records*, IV, 80.
91. F.M.L. Thompson, *Chartered surveyors, The growth of a profession*, Lon. 1968, 81.
92. Linda Clarke, *Building capitalism*, Lon. 1992, 81.
93. *Georg. Soc. Records*, IV, 80.

Chapter 2

94. Linda Clarke, *Building capitalism*, Lon. 1992, 83.

NOTES

Chapter 3

1. Robert Campbell, *The London tradesman*, Lon. 1747.
2. Francis Price, *The British carpenter, a treatise on carpentry*, Lon. 1733, introduction.
3. John Turpin, *A school of art in Dublin since the eighteenth century*, Dub. 1995, 8.
4. Ibid, 13, 53, 21, 53.
5. Ibid, 16.
6. Ibid, 49-52.
7. David Yeomans, "Early carpenter's manuals 1592-1820", *Building History* vol 2 (1986) 13.
8. Ibid, 13, and Rudolf Wittkower, *Palladio and English Palladianism*, Lon. 1974, 96, 97.
9. Christine Casey, *Books and builders* Ph.d. thesis, TCD, 1991, 181.
10. Hodgson has clearly based the format of his tables on Hoppus's text.
11. Batty Langley, *The builder's vade mecum*, Dub. 1729, 73 and Francis Price, *The British Carpenter, a treatise on carpentry*, Dub. 1768, 1-5.
12. Christine Casey, *Books and builders* Ph.d. thesis, TCD, 1991, 185, 186.
13. David Yeomans, *The architect and the carpenter*, Lon. 1992, 25.
14. Nat., Lib.Irl. "An explanation of the Following Designs for a Parliament House in Dublin", ms. D20, 209.
15. *Faulkner's Dublin Journal*, 30 June - 4 July 1752 and 22-25 August 1752.
16. Chambers used trussed partitions in Charlemont House, Gandon's drawings for the villas at Carriglass and Roslyn Park indicate their use. Johnston used them at Ballynagall House, Co. Westmeath.
17. Francis Price, *The British carpenter, a treatise on carpentry*, Lon. 1733, 51 and William Pain, *The practical house carpenter*, Lon. 1794, v.
18. Batty Langley, *The builder's vade mecum*, Dub. 1729, 68 and Levi Hodgson, *The modern measurer*, Dublin 1793, 91.
19. Rudolf Wittkower, *Palladio and English Palladianism*, Lon., 1994, 105.
20. Joseph Moxon, *Mechanick exercises*, Lon. 1703.
21. Rudolf Wittkower, *Palladio and English Palladianism*, Lon., 1994, 105.

Chapter 3

22. William Pain, *The builder's companion*, Lon. 1758.
23. Kenneth Severens "The rebuilding of St. Werburghs church", *Bull. Irish Geo. Soc.*, vol. 35, (1993), 10.
24. Edward Mc Parland, "The office of the surveyor general in Ireland in the eighteenth century", *Jour. Soc. Arch. Hist. G. Brit.* vol 38 (1995), 98.
25. Idem, 98,
26. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600-1720*, Lon. 1981, 90.
27. *Wilson's Dublin directory*, Dub. 1773.
28. John Turpin, *A school of art in Dublin since the eighteenth century*, Dub. 1995, 49-52.
29. Reg. deeds, 139-132-93423, 178-559-120258, 291-95-18283, 304-11-199861, 317-465-218426, 330-469-224376
30. Maurice Craig, *Dublin 1660 - 1860*, Lon. 1952, 180 and Nat. Lib. Irl. Pakenham Mahon papers mss. 10770; Ranelagh Schools papers, mic. film, P3147; Diocessan papers Armagh, mic. film, P1014.
31. C.E.B. Brett, *Roger Mulholland 1740-1718*, Belfast 1976, 8, 12.
32. Nat. Lib.Irl. Kilmainham papers, mss., 1122, (88).
33. Nat. Lib.Irl. Kells' church accounts, mss. 25304.
34. *Commons' Jour.* V. app. ccxxxi.
35. Edward McParland, "The office of the surveyor general in Ireland in the eighteenth century", *Jour. Soc. Arch. Hist. G. Brit.* vol. 38 (1995) 97.
36. Ir. Arch. Archive, Michael Wills' cash book, (1731-1777) rents 1731-1759, 81/82.
37. Mary Amelia Rudd, *Records of the Rudd family*, Bristol 1920, 202.
38. Eileen Mc Cracken, *The Irish woods since tudor times*, Belfast, 1971, 130.
39. C.E.B. Brett, *Roger Mulholland 1740-1818*, Belfast 1976, 18.
40. Christine Casey, *Books and Builders*, Ph.d. thesis, TCD 1991, 151 - 164.
41. Ibid, 15.
42. C.E.B. Brett, *Roger Mulholland 1740-1818*, Belfast 1976, 4.

NOTES

Chapter 4

1. Mary Clarke and Raymond Refaüssé, *Directory of historic Dublin guilds*, Dublin 1993, 22.
2. Dub. Corp. Archives, Carpenters' guild, Roll of members 1656, DCA, G21.
3. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600 - 1720*. Lon. 1981, 108.
4. TCD, mss. Matthew Kessel's accounts, Mun. P2/1/4.
5. Ibid, P2/1/20.
6. Nat. Lib. Irl. Blue coat school accounts, mss. 13659 (4).
7. *CARD*, V, 372, 373.
8. Richard Colley, *An account of the foundation of the Royal Hospital of King Charles II*, Dub. 1725, 19.
9. Richard Caulfield (ed), *The council book of the Corporation of Kinsale from 1652 to 1800*, Guilford, 1879, 19.
10. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600 - 1720*, Lon. 1981, 68.
11. Nat. Lib. Irl. Ormonde deeds, mss. 11,048 [44].
12. Hist. Man. Commission, Ormonde papers, NS.V.292.
13. Joseph Moxon, *Mechanick exercises*, London, 1703.
14. Betty Langley, *The builder's vade mecum*, Dub. 1729 and Francis Price, *The British Carpenter, a treatise on carpentry*, Lon. 1733.
15. Joseph Moxon, *Mechanick exercises*, London, 1703, 63.
16. Ibid, 99.
17. Ibid, 117, 118.
18. Ibid, 118.
19. Betty Langley, *The builder's vade mecum*, Dublin 1729, 89, 90.
20. Ibid, 90, 91.
21. William Pain, *The carpenter and joiner's repository*, Lon. 1778, and *The practical house carpenter*, Lon. 1994.

Chapter 4

22. Henry Guinness, "Dublin trade guilds", *Jour Roy. Soc. Antiquaries Ireland* XII, (1922), 162.
23. Joseph Moxon, *Mechanick exercises*, Lon. 1703, 63-65.
24. *Commons' Jour.* II, app. ccxiii.
25. Henry Guinness, "Dublin trade guilds", *Jour Roy. Soc. Antiquaries Ireland* XII, (1922), 162.
26. TCD, mss. John Sissons' accounts, Mun. P2/8/29-P2/62/14.
27. Rolf Loeber, *A biographical dictionary of architects in Ireland*, Lon. 1981, 34.
28. *Commons' Jour.* III, app. ccxxix.
29. TCD, mss. John Sissons' accounts, Mun. P2/19/26.
30. Ibid, P2/19/27.
31. Ibid, P2/23/55/P2/24/20, P2/25/54-60, P2/59/4-13.
32. Ibid, P2/19/26-28.
33. Ibid, P2/24/20.
34. Ibid, P2/48/15-18, P2/52/19-22.
35. Ibid, P2/54/15-23.
36. Ibid, P2/59/4-13.
37. Ibid, P2/23/57-59.
38. Ibid, P2/25/54-60.
39. Ibid, P2/27/35-38.
40. Ibid, P2/31/9-14.
41. Ibid, P2/22/22.
42. TCD, mss. Isaac Wills' accounts, Mun. P2/31/19.
43. Ibid, Mun. P2/48/22.
44. Richard Colley, *An account of the foundation of the Royal Hospital of King Charles II*, Dub. 1725, 23.

Chapter 4

45. Nat. Lib. Irl. mss. Clements papers, mic. film, P3753.
46. Nat. Lib. Irl. mss. Flower papers, 11455(1).
47. TCD, mss. Isaac Wills' accounts, Mun. P2/38/43, 48.
48. Ibid, P2/48/23.
49. TCD, mss. Charles Brooking's accounts, Mun. P2/53/3-4, P255/2-3.
50. TCD, mss. Joseph McCleery's accounts, Mun. P2/65/1-3; Isaac Will's accounts P2/65/8.
51. *Commons' Jour.* IV, app. xxxii
52. *Commons' Jour.* V, app. lx, app. xlvi.
53. Ibid, app. ccxxxi.
54. *The case of Bartholomew Mosse, 1755*, (Un. Lib. Camb. Bradshaw coll.) 4464, Hib. O. 755.5.
55. Kenneth Severens, "The rebuilding of St. Werburgh's Church", *Bulletin of the Irish Georgian Soc.* Vol. 35, (1993), 7,8,9.
56. Nat. Archives, Business records, Dublin, Ball account books, mss. 43.
57. Nat. Lib. Irl. Customs ledgers of exports and imports, mss. 353-76.
58. Nat. Lib. Irl. Clements Papers, mic. film. P3753.
59. Nat. Lib. Irl. Castle Forward folio, mss. 10,470.
60. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
61. *Wren Society Volumes*, XIV, 49-64.
62. H. Louw, "The origin of the sash window", *Jour. Soc. Arch. Historians*, Vol. 26, (1983) 64.
63. *Wren Society Volumes*, XVII, 68.
64. Henry Guinness, "Dublin trade guilds", *Royal Soc. Antiquaries Ireland Jour.* XII, (1922) 162.
65. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600-1720*, Lon. 1981, 88.

NOTES

Chapter 5

1. Isaac Ware, *A complete body of architecture*, Lon. 1735, 75.
2. *CARD*, VI, 534.
3. Levi Hodgson, *The modern measurer*, Dublin, 1793, 122, 123.
4. TCD, mss. William Montgomery and Casper White's accounts, Mun. P2/11/12 to P2/68/30.
5. *Commons' Jour*, IV, app. xxxiii.
6. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
7. *Wilson's Dublin Directories*, Dub. 1758-1786.
8. Thomas Miller, *The concise practical measurer*, Lon. 1749, 79.
9. TCD, mss. William Montgomery's accounts, Mun. P2/68/29.
10. TCD, mss. Barbara Wimmin's accounts, Mun. P2/37/35.
11. *Wren Soc. Vols.* X, 99.
12. Thomas Miller, *The concise practical measurer*, Lon. 1749, 79.
13. Pub. Record Office N. Irl. Abercorn papers, mss. D623/C/3/1.
14. William Boutcher, *A treatise on forest trees*, Dub. 1776, 150, 172.
15. *Ibid*, 163.
16. *Oxford Eng. Dict.*, XVI, Oxford, 1989, 365.
17. Levi Hodgson, *The modern measurer*, Dub. 1793, 46, 47.
18. *Ibid*, 121, 122.
19. Pub. Record Office N. Irl. Mussenden papers, mss. D354/799.
20. William Hawney, *The complete measurer*, Lon. 1717, and John Darling, *The carpenter's rule made easy*, Lon. 1727.
21. E. Hoppus, *Practical measuring made easy*, Lon. 1736.
22. Pub. Record Office N. Irl. Abercorn papers, mss. D623/C/3/1.
23. William Pain, *The practical house carpenter*, Lon. 1794, 8.

Chapter 5

24. D. Boyers, *The builder's companion*, Lon. 1801, table IX.
25. Peter Nicholson, *Dictionary of architecture*, Lon. 1819, 227, 228.
26. TCD, mss. Gabriel Price's accounts, Mun. P2/19/12, William Montgomery's accounts, Mun. P2/18/15, P2/32/19, P2/32/17.
27. Levi Hodgson, *The practical measurer*, Dub. 1793, 121.
28. Pub. Record Office N. Irl. Mussenden papers, mss. D354/764.
29. Ibid, D354/779.
30. Ibid, D354/725.
31. TCD, mss. Richard Cassels' accounts, Mun. P2/80.
32. *Commons' Jour.* IV, app. xxxiii.
33. Irish Arch. Archive, photocopy, George Semple's proposal for St. Patrick's Hospital.
34. Ibid.
35. TCD, mss. William Montgomery's accounts, Mun. P2/18/15.
36. TCD, mss. Isaac Wills' accounts, Mun. P2/66/21.
37. Irish Arch. Archive, photocopy, George Semple's proposal for St. Patrick's Hospital.
38. Ibid.
39. Pub. Record Office, N. Irl. Downhill papers, mss. D1514/1/1/13.
40. Pub. Record Office, N. Irl. Mussenden papers, mss. 354/725.
41. *Commons' Jour.* IV, app. xxxiii.
42. Marie-Louise Legg, *The Synge Letters*, Dub. 1996, 15.
43. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
44. Irish Arch. Archive, Drogheda Grammar School folio.
45. Joseph Moxon, *Mechanick exercises*, Lon. 1703, 99.
46. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
47. TCD, mss. Nathaniel Hall's accounts, Mun. P2/37/56, P2/42/23/24, P2/44/7.

Chapter 5

48. Ibid, P2/27/27.
49. TCD, mss. Henry Neal's accounts, Mun. P2/68/31, John Scott's accounts, Mun. P2/68/45/47/48.
50. Levi Hodgson, *The practical measurer*, Dub. 1793, 122, 123.
51. Joseph Moxon, *Mechanick exercises*, Lon. 1703, 99.
52. Brit. Library, Egmont papers, mss. add. 46964B.
53. *Faulkner's Dublin Jour.* Oct. 1776.
54. Gerard Boate, *Ireland's natural history*, Lon. 1652, 68.
55. John Bush, *Hibernia curiosa*, Lon. 1769, 41.
56. Eileen McCracken, *The Irish woods since Tudor times*, Belfast, 1971, 23.
57. Ibid, 94.
58. Nat. Lib. Irl. Flower papers, mss. 11455 (1).
59. *Faulkner's Dublin Jour.* 14 Feb. 1743.
60. *CARD*, VII, 364.
61. *CARD*, VI, 549.
62. *CARD*, VII, 199, 200.
63. Francis Price, *The British Carpenter, a treatise on carpentry*, London, 1733, William Pain, *The practical house carpenter*, London, 1794.
64. Huw Jones, "Wren tests restorers", *New civil engineer*, (27 Oct. 1988), 28-31.
65. TCD, mss. Isaac Wills' accounts, Mun. P2/48/22.
66. Percy Kirkpatrick, *The history of Dr. Steevens' hospital*, Dub. 1924, 35, 36.
67. TCD, mss. Isaac Wills' accounts, Mun. P2/65/8 and Richard Cassels' accounts, Mun. P2/80.
68. Irish Arch. Archive, Drogheda Grammar School folio.
69. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
70. Marie-Louise Legg, *The Synge letters*, Dub. 1996, 116.

Chapter 5

71. Thomas Miller, *The concise practical measurer*, Lon. 1740, 37.
72. Pub. Record Office, N. Irl. Mussenden papers, mss. D354/790.
73. George Semple, *A treatise on building in water*, Dub. 1776, 83.
74. Ibid, 85,86.
75. TCD, mss. Montgomery and White's accounts, Mun. P2/54/13, P2/68/29.
76. *Commons' Jour*, V, app. lxxvii.
77. Nat. Archives, Ball's accounts, Dublin business records, mss. Dub. 43.
78. Eileen McCracken, *The Irish woods since Tudor times*, Belfast, 1971, 78.
79. *CARD*, VII, 151.
80. TCD, mss. John Sissons' accounts, Mun. P2/44/25.
81. TCD, mss. Richard Cassels' accounts, Mun. P2/80.
82. Pub. Record Office N. Irl. Mussenden papers, mss. 354/779.
83. Ibid, 354/763.
84. TCD, mss. George Stewart's accounts, Mun. P2/105.
85. Marie-Louise Legg, *The Synge Letters*, Dub. 1996, 119.
86. *Commons' Jour*, V, app. xviv, app. xiv, app. xcvi.
87. Marie-Louise Legg, *The Synge Letters*, Dub. 1996, 119.
88. *Hydrographia Hibernica*, or A review of the considerable rivers of Ireland, 1710, 9.
89. Thomas Truxes, *Irish American trade*, Camb. 1988, 218.
90. Eileen McCracken, *The Irish woods since Tudor times*, Belfast, 1971, 124.
91. Pub. Rec. Office Lon. Export-Import ledgers 1698-1829, Cust. 15.
92. Ibid, ledger 1770-1771. Cust. 15.
93. TCD, mss. Isaac Wills' accounts, Mun. P2/40/45.
94. TCD, mss. John Sissons' accounts, Mun. P2/59/9.

Chapter 5

95. Pub. Rec. Office N. Irl. mss. Abercorn papers, D623/C/3/1.
96. Arthur Dobbs, *Observations of the trade and improvements of Ireland*, Dub. 1729, 48.
97. Pub. Rec. Office N. Irl. Mussenden papers, mss. D354/762, 764, 766, 788.
98. Thomas Truxes, *Irish American Trade*, Camb. 1988, 384.
99. Richard Caulfield, ed. *The council book of the corporation of the city of Cork*, Guilford 1876, minutes, 27 Nov. 1766.
100. *Wilson's Dublin directory*, Dub. 1752.
101. *Wilson's Dublin directory*, Dub. 1765.
102. Ibid.
103. Rolf Loeber, *A dictionary of Irish architects, 1600 - 1720*, Lon. 1981, 90.
104. *Wilson's Dublin directories*, Dub. 1752-1792.

NOTES

Chapter 6

1. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600-1720*, Lon. 1981, 60, 72.
2. *CARD*, VI, 260.
3. Mary Amelia Rudd, *Records of the Rudd family*, Bristol 1920, 203.
4. Dub. City Archive, typescript, Roll of the freemen of the city of Dublin.
5. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600-1720*, Lon. 1981, 115.
6. TCD, mss. William Caldebeck's accounts, Mun. P2/22/3.
7. *Ibid*, Mun. P2/23/3.
8. TCD, mss. Francis Quinn's accounts, Mun. P2/36/19, P2/37/62-65, P2/48/1.
9. TCD, Dr Steevens' Hospital papers, mss. 70.
10. Nat. Lib. Irl. Flower papers, mss. 11455(1).
11. *Ibid*.
12. Pub. Rec. Office, N. Ireland, Arthur Dobb's contracts, mss. D162/28-32 (29).
13. Nat. Lib. Irl. Sexton Pery's accounts, mss. 16094 (a).
14. *Commons' Jour.* V app. cxxiii.
15. *Ibid*, app. ccxvii.
16. TCD, mss. William Caldebeck's accounts, Mun. P2/22/3.
17. TCD, mss. Francis Quinn's accounts, Mun. P2/36/19.
18. TCD, mss. Dr Steevens' Hospital papers, 81.
19. Geneal. Off. Betham Coll. ns. v31, 158.
20. Dub. City Archive, typescript, Roll of the freemen of Dublin.
21. TCD, mss. Moses Darley's accounts, Mun. P2/23/25-41.
22. Pub. Rec. Office, N. Ireland, Arthur Dobb's contracts, mss. 31.
23. TCD, mss. George Darley's accounts, Mun. P2/145/1-5.

Chapter 6

24. RIBA, mss. William Chambers' correspondence, Cooley to Chambers, 22 Aug. 1769, CHA. 2/26.
25. Rev. T. Gogarty, *Council book of the Corporation of Drogheda*, I, Drogheda, 1915, 350.
26. Nat. Lib. Irl. Castleforward accounts, mss. 10470.
27. Chatsworth, Devonshire papers, (Curry's boxes) 1772-1776, Memorial of Stokes and Darley, 6 Feb. 1776, mss. L/9/7.
28. Pub. Rec. Office, N. Irl. Abercorn papers, mss. D623/C/3/1.
29. *Wren Soc. Vols.* X, 39, 40, 48, 82.
30. *Wren Soc. Vols.* IV, 40, 52.
31. *Wren Soc. Vols.* XV, 101, 138, 148.
32. *Wren Soc. Vols.* XV, 63, 66, 67.
33. *Wren Soc. Vols.* XVII, 62.
34. Pub. Rec. Office, N. Irl. Abercorn papers, mss. D623/C/3/1, and Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1971, 164.
35. Richard Colley, *An account of the foundation of the Royal Hospital*, Dub. 1725, 23.
36. Rolf Loeber, *A biographical dictionary of Irish architects 1600-1720*, Lon. 1981, 114.
37. *Ibid*, 114.
38. *Ibid*, 114.
39. *Ibid*, 114.
40. *Commons Jour.* II, app. cccxviii,
41. *Commons' Jour.* IV, app. xxxii, xxxiii.
42. TCD, mss. Dr Steevens' Hospital papers, 82-101 (82).
43. *The case of Bartholomew Mosse*, 1755, (Un. Lib. Camb. Bradshaw coll.) 4464, Hib. O .75
44. Private Collection, Faulkner papers.
45. Edward McParland, *James Gandon*, Lon. 1985, 47.
46. TCD, mss. Dr Steevens' Hospital papers, 82.

Chapter 6

47. Pub. Rec. Office Lon. typescript, M473.
48. Nat. Lib. Irl. Flower papers, mss. 11455 (1).
49. Rolf Loeber, *A biographical dictionary of Irish architects 1600-1720*, Lon. 1981, 40.
50. Nat. Lib. Irl. Headford papers, mss. 261679.
51. Peter Rankin, *Irish building ventures of the Earl Bishop of Derry*, Belfast. 1972, 10.
52. Ibid, 22, 29.
53. Ibid, 29, 52, 53.
54. Pub. Rec. Office, N. Irl. Mount Stewart acc. books, D654/41/1.
55. Pub. Rec. Office, N. Irl. Blessington Hse accounts, mss. D671 V 360, bundle 110.
56. Pub. Rec. Office, N. Irl. Bristol papers, mss. D1514/1/1/9.
57. Peter Rankin, *Irish building ventures of the Earl Bishop of Derry*, Belfast, 1972, 53.
58. Pub. Rec. Office, N. Irl. Abercorn papers, mss. D623/C/3/1.
59. Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1971, 164.
60. *Commons' Jour.* IV, app. xxxxi; C.P. Curran, "The Parliament House 1728-1800", *The Bank of Ireland, 1783-1944*, F. G. Hall, Dub. 1949, 439.
61. Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1971, 184 and TCD, mss. John Kelly's accounts, Mun. P2/84/6.
62. TCD, mss. James Robinson's accounts, Mun. P2/99/4.
63. Brit. Lib. mss. Add 46967, f18, Perceval to Taylor 28 Feb. 1715/16.
64. W. G. Neely, *Kilkenny, an urban history*, Belfast, 1989, 184.
65. Ibid, 184.
66. Peter Rankin, *Irish building ventures of the Earl Bishop of Derry*, Belfast, 1972.
67. Nat. Lib. Irl. Stonecutter's Report, mss. 13, 629 (8).
68. Ibid.

NOTES

Chapter 7

1. E.M. Jope, 'Fortification to architecture in the North of Ireland 1500 - 1700', *Ulster Journal of Archeology*, Vol. 23 (1960) 117.
2. Rolf Loeber, *A biographical dictionary of Architects in Ireland 1600 - 1720*, Lon. 1981, 23.
3. Rev. A.B. Grosart, *The Lismore papers*, first series, III, Lon. 1886-8, 87.
4. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600 - 1720*, Lon. 1981, 13.
5. Gerard Boate, *Ireland's natural history*, Lon. 1652, 149.
6. Ibid, 160.
7. Ibid, 161.
8. Nat. Archives, Settlement Survey, Lodge Transcripts Vol. VII, 13, 22, 100, 367, 399, 400, mss. 2448 17 1A53 52; Vol. XII, 48, 187, 210, 226, 252, 333, 355, mss. 2448 18 (1A 53 53).
9. Nat. Archives, Settlement Survey, Lodge Transcripts Vol. XII, 49, 261, mss. 2448 18 (1A 53 53).
10. Richard Neave, *The city and country purchaser and builder's dictionary*, Lon. 1726, 44.
11. George Wilkinson, *Practical geology and ancient architecture of Ireland*, London 1845, 131.
12. Pub.Rec.Office. N.Irl. letter from Dobbs to Richard Dobbs, mss. D.162/69.
13. Information from Erik van der Doe, Zieriksee, Holland.
14. Brit. Lib. Egmont papers, mss. Add. 46951B f 107, Add. 46964B f 80, 130.
15. TCD, Steevens' Hospital accounts, mss. 1/6.
16. Nat. Archives, Robert Ball's accounts, business records Dublin, mss. Dub. 43.
17. Ibid.
18. Joseph Moxon, *Mechanick exercises*, Lon. 1703, 131.
19. TCD, mss. Francis Quinn's accounts, Mun. P2/37/65, P2/44/24. 1976, 15.
20. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.

Chapter 7

21. Ibid, 15.
22. TCD, mss. John Tallis's accounts, Mun. P2/1/16.
23. TCD, mss. James Brown and Robert Pavior's accounts, Mun. P2/1/24.
24. TCD, mss. Richard Mills' accounts, Mun. P2/27.
25. TCD, mss. Bursar's accounts, Mun. P2/3/6.
26. Pub. Rec. Office N. Irl. Abercorn papers, Lease from Reading to Neave, mss. 10, D623/B/C/5.
27. Rolf Loeber, *A biographical dictionary of architects in Ireland 1600 - 1720*, Lon. 1981, 72.
28. Ibid, 68.
29. Maurice Craig, *Classic Irish houses of the middle size*, Lon. 1976, 16.
30. Pub. Rec. Office N. Irl. letter from Hearn to A/Bishop Cashel, mss. D562, 0562/458.
31. TCD, mss. Richard Plummer's accounts, Mun. P2/144/10.

NOTES

Chapter 8

1. Information from Margaret Quinlan B.Arch. MUBC.
2. Percy Kirkpatrick, *The history of Dr. Steevens' hospital*, Dub. 1924, 29.
3. TCD. mss. Steevens' hospital papers, f4 81,
4. Percy Kirkpatrick, *The history of Dr. Steevens' hospital*, Dub. 1924, 33.
5. Information from James O'Beirne, B.Arch. FRIAI.
6. *The case of Bartholomew Mosse, 1755*, (Un. Lib. Camb. Bradshaw coll.) 4464, Hib. O. 755.5
7. Irish Arch Archive, photocopy, George Semple's proposal for St. Patricks Hospital.
8. Richard Brash, "Notes on the ancient ecclesiastical architecture of Ireland" *Irish Builder*, 15 Jan. 1874.
9. George Semple, *A treatise on building in water*, Dub. 1776, 79.
10. Irish Arch Archive, photocopy, George Semple's proposal for St. Patrick's Hospital.
11. *Wren Society Volumes*, XIV, 112; XV, 101, 128; XIX, 106; and RIBA, mss. Robert Mylne's site notes on Blackfriars' bridge and Richard Caulfield ed. *The council book of the corporation of Cork*, Guilford 1876, 364.
12. Marcus Vitruvius Pollio, *The ten books of architecture*, II, 45.
13. Andrea Palladio, *The four books of architecture*, 1, 4.
14. Isaac Ware, *A complete book of architecture*, Lon. 1735, 79.
15. George Semple, *A treatise on building in water*, Dub. 1776, 80.
16. Dr. John Ruty, *An essay towards a natural history of Co. Dublin*, Dub. 1774, 92, 93, 96.
17. Irish Arch Archive, photocopy, George Semple proposal for Public Offices, 1758.
18. Dr. John Ruty, *An essay towards a natural history of Co. Dublin*, Dub. 1774, 22.

Chapter 8

19. George Semple, *A treatise on building in water*, Dub. 1776, 75, 81.
20. Thomas Humphreys, *The Irish builder's guide*, Dub. 1813, 69.
21. Irish Arch. Archive, photocopy, George Semple's proposal for Public Offices, 1758.
22. George Semple, *A treatise on building in water*, Dub. 1776, 55.
23. Ibid, 28.
24. Ibid, 28, 29.
25. Ibid, 29.
26. Ibid, 81.
27. George Wilkinson, *Practical geology and ancient architecture of Ireland*, Lon. 1845, 37.
28. Richard Caulfield ed. *The council book of the corporation of Cork*, Guilford 1876, 364.
29. Information from Kenneth James, Geology dept. Ulster Museum.
30. Peter Rankin, *Irish building ventures of the Earl Bishop of Derry*, Belfast, 1972, 22.
31. Ibid, 11.
32. Ibid, 55.
33. George Wilkinson, *Practical geology and ancient architecture of Ireland*, Lon. 1845, 315.
34. Philip Doughty, "The stones of Armagh", *The buildings of Armagh*, prepared by Robert McKinstry, Richard Oram, Roger Weatherup and Primrose Wilson, Belfast, 1992, 28.
35. *Commons' Jour.* IV, app. xxiv.
36. Richard Colley, *An account of the foundation of the Royal Hospital of King Charles II*, Dub. 1725, 19.
37. TCD. mss. Thomas Edmund's accounts, Mun. P2/25/39a.
38. TCD. mss. Moses Darley's accounts, Mun. P2/25/33, 34, 38.
39. TCD. mss. James Robinson's accounts, Mun. P2/99/4.

Chapter 8

40. *Wren Soc. Vols.*, XVI, 169.
41. RIBA, mss. Diary of C.R. Cockerell, 17 Oct. 1823.
42. Edward McParland, "Edward Lovett Pearce and the Parliament House in Dublin," *Burlington Magazine*, CXXI, Feb 1989, 93.
43. Nat. Lib. Irl. Castle Forward folio, mss. 10470.
44. Desmond Guinness and William Ryan, *Irish houses and castles*, Lon. 1971, 184, 185.
45. J. Windele, *Historic and descriptive notices of the city of Cork*, Cork, 1843, 26.
46. Pub. Rec. Office N. Irl. Abercorn papers, mss. D623/C/3/1.
47. Edward McParland, *James Gandon*, Lon. 1985, 109-114.

NOTES

Chapter 9.

1. Mary Clarke and Raymond Refaussè, *Directory of historic Dublin guilds*, Dub. 1993, 22.
2. John Windele, *Historic and descriptive notices of the city of Cork*, Cork 1843, 104.
3. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1726.
4. Nat. Archives, Roy. Hosp. Kilmainham minutes, I, 20 Nov. 1705, RHK, 1/1.
5. Ibid, II 13 April 1715.
6. Ibid, II 16 August 1717, 3 April 1722.
7. Ibid, V 30 May 1743.
8. TCD, Dr. Steevens' Hospital minutes 1789 - 1799.
9. Ibid, minutes, 7 Nov. 1781, 7 Dec. 1781.
10. CARD, VI, 145.
11. Ibid, 269.
12. Ibid, 283.
13. Ibid, 458.
14. Nat. Archives, Roy. Hosp. Kilmainham minutes, III, 8 Aug. 1719, RHK, 1/1.
15. Ibid, IV 21 April 1725.
16. TCD, mss. Jonathan Cape's accounts, Mun. P2/48/2.
17. Nat. Archives, Roy. Hosp. Kilmainham minutes, VII, 31 Oct. 1804, RHK, 1/1.
18. Gerard Boate, *Ireland's Natural History*, Lon. 1652, 141.
19. Pub. Rec. Office Nth. Ireland, *Belfast Newsletter*, 6 Sept. 1757, mic R7, V7.
20. John McVeagh ed. *Richard Pococke's Irish Tours*, Dub. 1995, 112, 126.
21. James Kelly ed. *The letters of Lord Chief Baron Edward Willes*, Aberystrewyth 1990, 69.
22. Nat. Lib. Ireland, Custom's Import, Export ledgers, mss. 353.
23. TCD, mss. William Murphy's accounts, Mun. P2/99/3.
24. Ibid,
25. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 183.

Chapter 9

26. Ibid, 188.
27. TCD, mss. Jonathan Cape's accounts, Mun. P2/48/2.
28. TCD, mss. Matt Cape's accounts. Mun. P2/94/10.
29. TCD, mss. William Murphy and Alexander Thompson's accounts, Mun. P2/125/95.
30. TCD, mss. Jonathan Cape's accounts, Mun. P2/48/2.
31. TCD, mss. Ruth Cape's accounts, Mun. P2/90/1.
32. TCD, mss. John Reed's accounts, Mun. P2/138/2.
33. Richard Neve, *The country and city purchaser and builder's dictionary*, Lon. 1726, 186.
34. TCD, mss. Ruth Cape's accounts, Mun. P2/90/2.
35. TCD, mss. Jonathan Cape's accounts, Mun. P2/48/2.
36. TCD, mss. Steevens' Hospital accounts, 1540.
37. Nat. Archives, Roy. Hosp. Kilmainham minutes, V, 7 June 1753, RHK, 1/1.
38. *Commons' Jour.* VI, app. lxxxiv.
39. TCD, mss. William Murphy's accounts, Mun. P2/125/95.
40. Ibid.
41. Richard Neve, *The country and city purchaser and builder's dictionary*, Lon. 1726, 186.
42. TCD, Steevens' Hospital accounts, mss. 1540.
43. Richard Neve, *The country and city purchaser and builder's dictionary*, Lon. 1703, 186.
44. *Dublin Evening Post*, 5 March, 1789.
45. Nat. Archives, Roy. Hosp. Kilmainham minutes, VII, 24 Apr. 1805, RHK, 1/1.
46. Francis Price, *The British Carpenter, a treatise on carpentry*, Lon. 1733, 15.
47. James Smith, *The carpenter's companion*, Lon. 1733, 20.
48. Batty Langley, *The city and country builder's and workman's treasury of designs*, Lon. 1741, 175.
49. Gerard Boate, *Ireland's natural history*, Lon. 1652, 149.
50. WG Neely, *Kilkenny, an urban history*, Belfast 1989, 67, 70.

Chapter 9

51. Nat. Archives, Settlement Survey, Lodge transcripts, Vol. X11, 48, 355, mss. 2448, 18, (1A 53, 53).
52. Cork City Archives, Christ Church vestry accounts, 1664-1709, Sept. 1669.
53. TCD, mss. Abraham Heatley's accounts. Mun. P2/13/7, P2/16/10, P2/19/15, P2/20/33, 35, P2/38/26, 27, P2/86/11.
54. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 265.
55. Ibid, 240
56. Batty Langley, *The builder's vade mecum*, Lon. 1728, 62.
57. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 270.
58. Ibid, 267.
59. TCD, mss. Richard Cassels' accounts, Mun. P2/65/6.
60. TCD, mss. James Elliot's accounts, Mun. P2/163/18.
61. TCD, mss. Thomas Gibson's accounts, Mun. P2/85/10.
62. TCD, mss. Thomas Heatley's accounts, Mun. P2/84/5.
63. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 238.
64. Ibid, 239,
65. Ibid, 238,
66. Ibid, 239,
67. K.T. Hoppen, (ed), *Dublin Phil. Soc. papers, 1683-1708*, published on mic. fiche, TCD., 900, Fiche 5.
68. Pub. Rec. office Lon. mss. SP/63/363, fol.85
69. Marie-Louise Legg, *The Synge letters*, Dub. 1996, 77.
70. Nat. Lib. Ireland, mss. Flower papers, mss. 11455/1/2.
71. Ibid, mss. 11455/3
72. TCD, mss. Abraham Heatley's accounts, Mun. P2/19/15, 16, 17.
73. *Commons' Jour.* V, app. cxiii, cxci.
74. Henry F. Berry, "The Merchant Tailor's gild", *Jour. Roy. Soc. Antiquaries Irl.* XLVIII, (1918), 36.

Chapter 9

75. George Wilkinson, *Practical geology and ancient architecture of Ireland*, Tables 349.
76. John McVeagh, *Richard Pococke's Irish Tours*, Dub. 1995, 36, 79, 110, 189.
77. *Commons' Jour.* II, app. cxcix.
78. Nat. Lib. Ireland, Castle Forward papers, mss. 10470.
79. Irish Arch. Archive, photocopy, George Semple's proposal for St. Patrick's Hospital.
80. Pub. Rec. Office Nth. Ireland, Mussenden papers, mss. D354/810
81. Nat. Lib. Ireland, Pakenham Mahon papers, mss. 10770.
82. Nat. Lib. Ireland, Kell's church accounts, mss. 25304.
83. Pub. Rec. Office Nth. Ireland, Londonderry papers, mss. D654/41/1.
84. Pub. Rec. Office Nth. Ireland, T3075, mic, 19/19, vol. 15.
85. Pub. Rec. Office Nth. Ireland, Londonderry papers, mss. D654/115.
86. Pub. Rec. Office Nth. Ireland, D654/117B.
87. *Commons' Jour.* V, app. cxxx, xll.
88. TCD, Dan. Aug. Beaufort's travel diary, mss. 4026, 56.
89. Richard Neve. *The city and country purchaser and builder's dictionary*, Lon. 1703,240.
90. *Commons' Jour.* V, app. ccxxxvii.
91. Irish Arch. Archive, photocopy, George Semple's proposal for St. Patrick's Hospital, George Semple's proposal for Public Offices.
92. TCD, mss. Thomas Kelly's accounts, Mun. P2/97/7.
93. TCD, mss. Obadiah Bolton's accounts, Mun. P2/144/1.
94. Nat Archives, Roy. Hosp. Kilmainham minutes, VII, 24 Apr. 1805, TCD Steevens' Hosp. minutes, 26 July 1799, RHK, 1/1.
95. John Nicholson, *The builder's practical guide*, Lon. 1830, 621.
96. Thomas Humphreys, *Irish builder's guide*, Dublin 1813, 169-171.
97. William Stitt, *The practical architect's ready assistant*, Dublin 1819, 337.
98. TCD, mss. Abraham Heatley's accounts, Mun. P2/2/31, P2/60.99. TCD, mss. Thomas Heatley's accounts, Mun. P2/90/7.

NOTES

Chapter 10

1. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.
2. Mary Clarke and Raymond Refaüssé, *Directory of Dublin Guilds*, Dub. 1993, 27.
3. CARD. V, 310; TCD, mss. William Vizer's accounts, Mun. P2/1/36, P2/2/48.
4. See chapter 12,
5. *Commons' Jour.* II, app. ccviii; Nat. Archives, Roy. Hosp. Kilmainham minutes, I, 17 Nov. 1692, RHK, 1/1.
6. TCD, mss. George Delane's accounts, Mun. P2/8/13, P2/38/14-17.
7. *Commons' Jour.* V, app. xxxii.
8. Nat. Archives, Roy. Hosp. Kilmainham minutes, II, 2 Aug. 1712, RHK, 1/1.
9. *Commons' Jour.* V, app. lxii; TCD, mss. John Rowlett's accounts, Mun. P2/61/18,19.
10. *Commons Jour.* V, lxxvii.
11. *Commons' Jour.* VI, app. ccxcix, cccxxii.
12. Dudley Westropp, *Irish Glass*, ed. Mary Boydell, Dublin 1978, 174.
13. Ibid, 173; Marsh's Lib. mss. Z3.1.3.P12.
14. Gerard Boate, *Ireland's natural history*, Lon. 1652, 87.
15. Marsh's Lib. mss. Z3.1.3.P12.
16. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 145.
17. Dudley Westropp, *Irish Glass*, ed. Mary Boydell, Dublin 1978, 168.
18. Pub. Rec. Office, Nth. Ireland, Mussenden papers. D 354/770.
19. *Commons' Jour.* XI, 222.
20. Dudley Westropp, *Irish Glass*, ed. Mary Boydell, Dublin 1978, 169.
21. Ibid, 169.
22. Gerard Boate, *Ireland's natural history*, Lon. 1652, 87.
23. Dudley Westropp, *Irish Glass*, ed. Mary Boydell, Dublin 1978, 24.

Chapter 10

24. Marsh's Lib. mss. Z3.1.3.P12.
25. Dudley Westropp, *Irish Glass*, ed. Mary Boydell, Dublin 1978, 31.
26. Ibid, 33.
27. Ibid, 68.
28. *Commons' Jour.* XI, 75.
29. Marsh's Lib. mss. Z3.1.3.P12.
30. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 41-42.
31. Ibid, 42
32. Ibid, 42.
33. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 145.
34. *Commons' Jour*, XI, 278.
35. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 145-147; H.J. Powell, *Glassmaking in England*, Lon. 1923, 38.
36. Dudley Westropp, *Irish glass*, ed. Mary Boydell, Dub. 1978, 49, 68.
37. *CARD*, V, 310.
38. Nat. Archives, Roy. Hosp. Kilmainham minutes, II, 16 Nov. 1711, RHK, 1/1.
39. TCD mss. George Delane's accounts, Mun. P2/24/10-13, P/32/9-11.
40. TCD mss. Joan Delane's accounts, Mun. P2/51/15.
41. TCD mss. John Rowlett's accounts, Mun. P2/61/18-19, P2/62/12-13, P2/70/18.
42. Nat. Lib. Irl. Castle Forward papers, mss. 10, 470.
43. *Commons' Jour.* V. app. lxii, app. lxxxvii.
44. Marie-Louise Legg, *The Synge letters*, Dub. 1996, 123.
45. *Commons' Jour.* V. app. lxxxvii.
46. Nat. Archives, Roy. Hosp. Kilmainham minutes, VI, 12 July 1778, RHK, 1/1.
47. *Commons' Jour.* VI, app. cccxxii.
48. Nat. Lib. Irl. Pakenham Mahon papers, mss. 10, 770.
49. *Commons' Jour* VII, 53.

Chapter 10

50. Ibid, app. lv.
51. *Dublin Journal*, 1 May 1771.
52. Dudley Westropp, *Irish Glass*, Mary Boydell, ed. Dub. 1978, 63.
53. *Dublin Evening Post*, 1 March, 1798.
54. Dudley Westropp, *Irish glass*, ed. Mary Boydell, ed. Dub. 1978, 63.
55. Nat. Archives, Roy. Hosp. Kilmainham minutes, VI, 2 July 1778, RHK, 1/1.
56. *Commons' Jour*, V, app. lxii, app. lxvi, app. lxviii.
57. Nat. Archives, Roy. Hosp. Kilmainham minutes, VI, 5 March, 1777, RHK, 1/1.
58. DB Harden, "Domestic window glass", *Studies in building history*, ed. EM Jope Lon. 1961, 55.
59. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 42.
60. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 41-42.
61. Hist. Man. Commission Ormonde papers, n.s. V. 292.
62. TCD, mss. New building accounts, Mun. P2/52/11.
63. Brit. Lib. Egmont papers, ms. add 46964A, ff 35, 36.
64. Nat. Archives, Roy. Hosp. Kilmainham minutes, III 10 March 1711, V, 7 May 1761, V, 9 April 1763, VII, 5 March 1799, RHK, 1/1.
65. *Commons' Jour* II, app. cxcix.
66. TCD, mss. Joan Delane's accounts, Mun. P2/52/11.
67. Methods of erecting, supporting and governing charity schools, Dublin, 1719, 17-18 (Roy. Irish Acad. pamphlets, Box 164, tract 15)
68. Brit. Lib. Egmont papers, mss. add 46964A, ff 34-36.
69. *Commons' Jour*. V, app. ccclxvii.
70. TCD, mss. John Rowlett's accounts, Mun. P2/61/18.
71. Richard Neve, *The city and country purchaser and builder's dictionary*, Lon. 1703, 154.
72. Ibid, 153.
73. TCD, mss. George Delane's accounts, Mun. P2/24.
74. *Commons' Jour*. II app. cxcix.

Chapter 10

75. *Commons' Jour.* V app. lxii.
76. TCD, mss. John Sisson's accounts, Mun. P2/31/15, 16, 17, P2/37/69, 70, 71.
77. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 192.
78. James Malton, *A picturesque and descriptive view of the city of Dublin*, Lon. 1799.
79. H.J. Louw, "The origin of the sash window", *Jour Soc. of Arch. Historians*, XXVI (1983) 53.
80. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 108.
81. *Ibid*, 108.
82. TCD, mss. John Sisson's accounts, Mun. P2/31/15, P2/37/69.
83. Andrea Palladio, *The four books of architecture*, 1, 30.
84. *Ibid*, 30, the original Italian publication refers to a reduction of $\frac{1}{6}$ of the dimensions, but it is clear from the illustrations that $\frac{1}{6}$ of the width is intended.
85. Robert Pool and John Cash, *Views of the most remarkable public buildings, monuments and other edifices in the city of Dublin*, Dub. 1780.
86. Frederick O'Dwyer, "Proportion and the Georgian Window", *The Town*, proceedings of the Irish Georgian Soc. Conference 1995.
87. Wren used 9 over 6 Sashes in Hampton Court in the 1690's and Kent used them in 44 Berkeley Square in 1741. The use of 6 over 9 sashes can sometimes be encountered in London houses.
88. TCD, mss. John Rowlett's accounts, Mun, P2/61/18.
89. Raymond McGrath and AC Frost, *Glass in architecture and decoration*, Lon. 1937, 107.
90. *Ibid*, 239

NOTES

Chapter 11

1. Vitruvius, *The ten books on architecture*, VII, 206.
2. Georgio Vasari, *Lives of the most eminent painters, sculptors, architects*, Lon, 1864, V, 20.
3. TCD mss. Estimate for finishing the Library, Mun. P2/28.
4. *The case of Bartholomew Mosse, 1755*, (Un. Lib. Camb. Bradshaw coll.) 4464, Hib. O. 755.5.
5. TCD mss. Michael Stapleton's accounts, Mun. P2/174/16.
6. C.P. Curran, *Dublin Decorative plasterwork in the 17th and 18th centuries*, Lon. 1967, 3.
7. Peter Wilson, *Dublin directories*, Dub. 1777, 1797.
8. Nat. archives, Roy. Hosp. Kilmainham minutes, II, 20 April 1706, RHK, 1/1.
9. Nat.Lib.Irl. Flower papers, mss. 11455.
10. TCD mss. Pat and John Wall's accounts, P2/139
11. George Bankart, *The art of the plasterer*, Lond. 1908, 45.
12. C. P. Curran, "Dublin plasterwork" *Jour. Roy. Soc. Antiquaries Irl.* LXX, (1940) 36.
13. *CARD*, III, 111.
14. Edward McParland, "Trinity College, Dublin, I," *Country Life*, (6 May 1976) 1167.
15. Irish Arch.Archive, photocopy, Blessington Manor, Co. Wicklow accounts.
16. Geoffrey Beard, *Decorative Plasterwork in Great Britain*, Lon. 1975, 23.
17. *Ibid.* 12.
18. Vitruvius, *The ten books of architecture*, VII, 207.
19. Andreas F.A. Morel, *Andreas und Peter Anton Moosbrugger, Zur stuckdecoration des Rokoko in der Schweiz*, Bern. 1973, 23.
20. Geoffrey Beard, *Stucco and decorative plasterwork in Europe*, Lon. 1983, 10.
21. Joseph McDonnell, *Irish eighteenth-century stuccowork and its European sources*, Dub. 91, 13.
22. *The case of Bartholomew Mosse, 1755*, (Un Lib. Camb. Bradshaw coll.) 4464, Hib. O. 755.5.

Chapter 11

23. Dublin City Archives, typescript, Freedom rolls of the city of Dublin.
24. Joseph McDonnell, *Irish eighteenth-century stuccowork and its European sources*, Dublin. 91,
25. Ibid, 13.
26. Andreas F.A. Morel, *Andreas und Peter Anton Moosbrugger, Zur stuckdekoration des Rokoko in der Schweiz*, Bern.1973, 23.
27. Wren Soc. Vols. XV, preface, xix, xiviii.
28. Information from Seamus O hEocha.
29. Geoffrey Beard, *Decorative Plaster work in Great Britain*, Lon. 1973, 9.
30. Rolf Loeber, "Irish country houses and castles of the late Caroline period," *Bulletin Irish Geo. Soc.* XV1, Jan-June (1973) 20.
31. Marie-Louise Legg, *The Synge letters*, Dub. 1996, 30.
32. Pub. Rec. Office N. Irl. Caledon papers, mss. D2433/B/1/3/28.
33. Nat. Archives, Roy. Hosp. Kilmainham minutes, XVI, 11 Feb. 1842, RHK, 1/1.
34. Geoffrey Beard, *Decorative plasterwork in Great Britain*, Lond. 1973, 9.
35. Brian de Breffny, "Stucco Work by Patrick Osborne at Castletown Cox," *The Irish Ancestor*, XIII, I, 1981, 15.
36. TCD. mss. Pat and John Wall's accounts, Mun. p2/139.
37. Marie-Louise Legg, *the Synge letters*, Dub.1996, 43, 54, 116, 119, 123, 131, 154.
38. Pub. Rec. Office N. Irl. Abercorn papers, mss. D63/C/3/1.
39. Desmond Guinness and William Ryan, *Irish country houses and castles*, Lon. 1971, 164.
40. Brian de Breffny, "Stucco work by Patrick Osborne at Castletown Cox", *The Irish Ancestor*, XIII, 1 1981, 5.
41. *The case of Bartholomew Mosse, 1755*, (Un. Lib. Camb. Bradshaw coll.) 4464, Hib. O. 755.5.
42. Dub. Corp. Archives, typescript Freedom rolls of the city of Dublin.
43. CP Curran, "Dublin plaster work", *Jour. Roy. Soc. Antiquaries Irl.*, LXX, 1940, 36.
44. Ibid, 44.
45. Ibid, 39.

Chapter 11

46. CARD, XIV, 287.
47. CP. Curran, "Dublin plaster work", *Jour. Roy. Soc. Antiquaries Irl.* LXX, 1940, 46.

NOTES

Chapter 12

1. Dub. Corp Archives, typescript, Roll of freemen of the city of Dublin, Rudolfus Cotton 1600, Thomas Cotton 1650.
2. Nat. Museum, mss. loan 1258, "Charter of the guild of St. Luke the Evangelist, Dublin".
3. W.G. Strickland, *A dictionary of Irish artists*, Dub. 1913, I, 158.
4. *CARD*, V, 156, 156.
5. Nat. lib. Irl. mss. 12122, minutes of guild of St. Luke, 18 October 1679.
6. Jane Fenlon, "The painter stainers companies of Dublin and London", *New perspectives*, Fenlon, Figis, Marshall (eds.) Dublin. 1987, 103.
7. *Ibid*, 104.
8. *Ibid*, 102.
9. *Wilson's Dublin Directories*, 1755, 1764.
10. John Harris and Gordon Higgat, *Inigo Jones, complete architectural drawings*, Lon. 1989, 194.
11. *Ibid*, 194.
12. W.G. Strickland, *A dictionary of Irish Artists*, I, 157, 158.
13. *Ibid*, I, 157, 158.
14. *Ibid*, I, 157.
15. *Ibid*, I, 157.
16. *Ibid*, I, 158.
17. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.
18. Gilbert Collection, charter of the Dublin guild of bricklayers and plasterers. mss. 81.
19. *CARD*, V, 399, 400, 409.
20. Pub. Rec. Office Lon. T. Burgh's accounts, 5/6 Sept. 1707, WO/55/1984; Nat. Archives, Roy. Hosp. Kilmainham minutes, III, 8 August 1715, RHK, 1/1.
21. Nat. Archives, Roy Hosp. Kilmainham minutes, III, 8 August 1715, RHK, 1/1.
22. Richard Colley, *An account of the foundation of the Royal Hospital*, Dub. 1725, 23.
23. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.

Chapter 12

24. Nat. Lib. Irl. records of the guild of St. Luke, Vol. II, 1676-1724, minutes of 18 Oct. 1679. mss. 12122.
25. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.
26. Charles T. Keating. "The guild of cutlers, painter-stainers and stationers", *Jour. Roy. Soc. Antiquaries Irl.*, XXX 1900, 139.
27. WG Strickland, *A dictionary of Irish artists*, Dub. 1913, I, 156.
28. Nat. Lib. Irl. records of the guild of St. Luke, Vol. II, 1676-1724, minutes of 18 Oct. 1696. mss. 12122.
29. Gilbert Collection, charter of the Dublin guild of bricklayers and plasterers, mss. 81.
30. Henry Guinness, "Dublin trade guilds", *Jour. Roy. Soc. Antiquaries Irl.*, XXX, 1922, 162.
31. Rolf Loeber, *A biographical dictionary of architects in Ireland, 1600-1720*, Lon. 1981, 90.
32. Charles T. Keating, "The guild of cutlers, painter-stainers and stationers". *Jour. Roy. Soc. Antiquaries Irl.* XXX, 1900, 136.
33. W.G. Strickland, *A dictionary of Irish artists*, Dub. 1913, II, 251.
34. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.
35. Ibid.
36. Nat. Lib. Irl. records of the guild of St. Luke, Vol. II, 1676-1724, minutes of 18 Oct. 1701. mss. 12122.
37. Ibid, minutes of 18 Oct. 1706.
38. Ibid, minutes of 18 Oct. 1723.
39. Nat. Lib. Irl. records of the guild of St. Luke, Vol. III, 1677-1728, minutes of 15 Nov. 1726.
40. *CARD*, V, 145.
41. Ibid, 146.
42. Irish Georgian Soc. Report on Ledwithstown House, Mary McGrath, 1993.
43. Nat. Archives, Roy. Hosp. Kilmainham minutes, I, 5 April 1705, RHK, 1/1.
44. Ibid.
45. William Stitt, *The practical architect's ready assistant*, Dub. 1819, 346.
46. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 8.

Chapter 12

47. Ibid, 16.
48. Irish Georgian Soc. Report on Ledwithstown House, Mary McGrath, 1993.
49. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 171.
50. Robert Dossie, *The handmaid to the arts*, Lon. 1764, 138.
51. Irish Georgian Soc. Report on Ledwithstown House, Mary McGrath, 1993.
52. Ibid.
53. Robert Dossie, *The handmaid to the arts*, Lon. 1764, 69.
54. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 30.
55. Irish Georgian Soc. Report on Ledwithstown House, Mary McGrath, 1993.
56. Robert Dossie, *The handmaid to the arts*, Lon. 1764, 54.
57. Ibid, 55.
58. Ibid, 50.
59. Ibid, 50.
60. TCD, mss. John Wall's accounts, Mun. P2/96
61. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 48, 98.
62. Ian Bristow, "Ready mixed paint in the eighteenth century", *Architectural Review*, April 1977, 246-248.
63. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 104.
64. Nat. Lib. Irl. Records of the guild of St. Luke, Vol I, byelaws, byelaw No. 24, mss.12121.
65. Charles T. Keating, "The guild of cutlers, painter stainers and stationers", *Roy. Soc. Antiquaries Irl.*, XXX, 1900, 139.
66. Nat. Lib. Irl. Minutes of guild of St. Luke, mss. 12123.
67. *Commons Jour.* IV, app. xxxii.
68. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 111.
69. Ian Bristow, "Ready mixed paint in the eighteenth century", *Architectural Review*, April 1977, 246-248.
70. TCD, mss. George Spike's accounts, Mun. P2/34/1.
71. TCD, mss. John Wall's accounts, Mun. P2/96.
72. TCD, mss. Pat and John Wall's accounts, Mun. P2/102.

Chapter 12

73. TCD, mss. Michael Stapleton's accounts, Mun. P152/14.
74. Pub. Rec. office, N. Irl. Caledon papers, mss. D2433/B/1/3/27.
75. William Stitt, *The practical architects ready assistant*, Dub. 1819, 348.
76. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 164.
77. *Ibid*, 163.
78. Roy. Irish Acad. mss. Charlemont correspondence, Chambers to Charlemont, 22 March 1769, 12/R/12.
79. Geoffrey Beard, *Decorative plasterwork in Great Britian*, Lon. 1975. 20.
80. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 172.
81. *Ibid*, 172.
82. *Ibid*, 173.
83. Robert Dossie, *The handmaid to the arts*, Lon. 1764, VI.
84. Roy. Irish Acad. mss. Charlemont correspondence, Chambers to Charlemont, 7 Sept. 1775, 12/R/13.
85. Robert Dossie, *The handmaid to the arts*, Lon. 1764, 188.
86. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 102.
87. Wilson's Dublin directories.
88. W.G. Strickland, *A dictionary of Irish artists*, Dub. 1913, II, 347.
89. *Ibid*, 274.
90. Wilson's Dublin directories, 1784, 1797.
91. Nat. Lib. Irl. minutes of the guild of St. Luke, 3 Apr. 1699, mss. 12123.
92. *Ibid*, 19 January 1702.
93. Dub. Corp. Archives, typescript, Roll of freemen of the city of Dublin.
94. *Commons' Jour*, IV, app. xxxii.
95. Nat. Archives, Roy. Hosp. Kilmainham minutes, V, 17 Jan. 1759, RHK, 1/1.
96. Ian Bristow, *Interior house painting colours and technology*, Lon. 1996, 111.

SELECTED BIBLIOGRAPHY

PRINTED SOURCES:

- Anon. *Hydrographia Hibernica or a review of the considerable rivers of Ireland*. [Place of publication unknown]: 1710.
- Anon. *History of a pickle herring, or the adventures of Buttermilk Jack*. Dublin: 1760.
- Bankart, George. *The art of the plasterer*. London: 1908.
- Beard, Geoffrey. *Decorative plasterwork in Great Britain*. London: 1975.
- Beard, Geoffrey. *Stucco and decorative plasterwork in Europe*. London: 1983.
- Boate, Gerard. *Ireland's natural history*. London: 1652.
- Boucher, William. *A treatise on forest trees*. Dublin: 1776.
- Boyers, D. *The builder's companion*. London: 1801.
- Brash, Richard. "Notes on the Ancient Ecclesiastical Architecture of Ireland." *Irish Builder*, 15 January 1874.
- Brett, C.E.B. *Roger Mulholland Architect, of Belfast, 1740 - 1818*. Belfast: 1976.
- Bristow, Ian. *Interior house painting colours and technology 1615 - 1840*. London: 1996.
- Burroughs, Malcolm. "Measures of Architecture 1750 - 1850." *Chartered Quantity Surveyor*, December, 1980.
- Bush, John. *Hibernia Curiosa, a Letter from a gentleman in Dublin to his friend at Dover in Kent*. London: 1769.
- Campbell, Robert. *The London tradesman*. London: 1747.
- Casey, Christine. "Books and Builders". Ph. D. Thesis. TCD: 1991.
- Casey, Christine. "De Architectura: an Irish gloss." *Architectural History* 37: 1994.
- Caulfield, Richard, ed. *The Council Book of the Corporation of Kinsale from 1625 to 1800*. Guilford: 1879.
- Clarke, Linda. *Building capitalism*. London: 1992.
- Clarke, Mary, and Rafusse, Raymond. *Directory of historic Dublin guilds*. Dublin: 1993.
- Clune, Rev. George. *The medieval guild system*. Dublin: 1943.

- Colley, Richard. *An account of the foundation of the Royal Hospital of King Charles II etc., near Dublin*. Dublin: 1725.
- Craig, Maurice. *Dublin 1660 - 1860, A social and architectural history*. London: 1952.
- Craig, Maurice. *Classic Irish houses of the middle size*. London: 1976.
- Craig, Maurice. *The architecture of Ireland from the earliest times to 1880*. London: 1982.
- Curran, C.P. *Dublin decorative plasterwork in the 17th and 18th centuries*. London: 1967.
- Curran, C.P. "Dublin Plasterwork." *Journal of the Royal Society of Antiquaries of Ireland*. Vol. LXX (1940).
- Curran, C.P. "The Architecture of the Bank" in F.G. Hall, *The Bank of Ireland*. Dublin: 1949.
- Darling, John. *The carpenter's rule made easy*. London: 1727.
- De Breffny, Brian. "Stuccowork by Patrick Osborne at Castletown Cox". *The Irish Ancestor*. XIII:I (1981).
- Dobbs, Arthur. *Observations of the trade and improvements of Ireland*. Dublin: 1729.
- Dossie, Robert. *The handmaid to the arts*. London: 1764.
- Doughty, Philip. "The Stones of Armagh", in *The Buildings of Armagh*. Prepared by Robert McKinstry, Richard Oram, Roger Weatherup and Primrose Wilson. Belfast: 1992.
- Dublin Evening Post*
- Faulkner's Dublin Journal*
- Fenlon, Jane. "The Painter Stainers' Companies of London and Dublin", in Fenlon, Jane; Figgis, Nicola and Marshall, Catherine, eds. *New Perspectives*. Dublin: 1987.
- Freeman's Journal*
- Gilbert, Sir John T. et al. 18 vols. *Calendar of the ancient records of Dublin*. Dublin 1889 - 1992.
- Gogarty, Rev. T. *Council Book of the Corporation of Drogheda*. Drogheda: 1915.
- Grosart, Rev. A.B., ed. *The Lismore Papers*. First Series. London: 1886 - 1888.
- Guinness, Desmond and Ryan, William. *Irish houses and castles*. London: 1971.
- Guinness, Henry. "Dublin Trade Guilds". *Journal of the Royal Society of Antiquaries of Ireland*. Vol. XXII (1922).

- Harden, D.B. "Domestic Windowglass". In E.M. Jope (ed.) *Studies in building history*. London: 1961.
- Harris, John and Higgart, Gordon. *Inigo Jones: complete architectural drawings*. London: 1989.
- Hawney, William. *The complete measurer*. London: 1717.
- Herbert, Robert. "The Trade Guilds of Limerick". *North Munster Antiquarian Journal*. II, No. 1. Spring, 1940.
- Historic Manuscripts Commission V. New series.
- Hodgson, Levi. *The modern measurer*. Dublin: 1793.
- Hoppus, E. *Practical measuring made easy*. London: 1736.
- Humphreys, Thomas. *The Irish builder's guide*. Dublin: 1813.
- Jones, Huw. "Wren Tests Restorers." *New Civil Engineer*, 27 October 1988.
- Jope, E.M. "Fortification to Architecture in the North of Ireland, 1570 - 1700." *Ulster Journal of Archaeology*. Vol. 23 (1960).
- Journals of the House of Commons of the Kingdom of Ireland*. 19 Vols. Dublin: 1796 - 1800.
- Keating, Charles T. "The Guild of Cutlers, Painter Stainers and Stationers." *Royal Society of Antiquaries of Ireland Journal*. Vol. XXX (1900).
- Kelly, James, ed. *The Letters of Lord Chief Baron Edward Willes*. Aberystwyth: 1990.
- Kirkpatrick, Percy. *The History of Dr. Steeven's Hospital*. Dublin: 1924.
- Langley, Batty. *The Builder's Vade Mecum*. Dublin: 1729.
- Langley, Batty. *The city and country builder's and workman's treasury of designs*. London: 1741.
- Legg, Marie Louise. *The Synge Letters*. Dublin: 1996.
- Loeber, Rolf. *A biographical dictionary of architects in Ireland 1600 - 1720*. London: 1981.
- Louw, H. "The Origins of the Sash-Window." *Architectural History*. Vol. XVI (1983).
- Malton, James. *A picturesque and descriptive view of the City of Dublin*. London: 1792 - 99.
- Maxwell, Constantia. *Country and towns in Ireland under the Georges*. London: 1940.

- McCracken, Eileen. *The Irish woods since Tudor times*. Belfast: 1971.
- McDonnell, Joseph. *Irish 18th century stuccowork and its European sources*. Dublin: 1991.
- McGrath, Raymond and Frost, A.C. *Glass in architecture and decoration*. London: 1937.
- McParland, Edward. *James Gandon, Vitruvius Hibernicus*. London: 1985.
- McParland, Edward. "Trinity College Dublin I". *Country Life*, 6 May, 1976.
- McParland, Edward. "The Surveyor General in Ireland", in *Architectural History*, Vol. 38, 1995.
- McVeagh, John, ed. *Richard Pococke's Irish Tours*. Dublin: 1995.
- Miller, Thomas. *The concise practical measurer*. London: 1749.
- Moody, T.W. and Vaughan, W.E. Eds. *A new history of Ireland IV: eighteenth-century Ireland 1692 - 1800*. Oxford: 1986.
- Morel, Andreas F.A. *Andreas und Peter Anton Moosbrugger. Zur stuckdecoration des rokoko in der Schwerz*. Berne: 1973.
- Moxon, Joseph. *Mechanick exercises*. London: 1695; 1703.
- Neely, W.G. *Kilkenny: an urban history*. Belfast: 1989.
- Neve, Richard. *The city and country purchaser and builder's dictionary*. London: 1703.
- Nicholson, John. *The builder's practical guide*. London: 1830.
- O'Dwyer, Frederick. "Proportion and the Georgian Window." *The Town - conservation in the urban area*. Report of The Irish Georgian Society Conference, February 1995.
- Pain, William. *The builder's companion*. London: 1758.
- Pain, William. *The practical house carpenter*. London: 1794.
- Palladio, Andrea. *The four books of architecture*.
- Patterson, T.G.F. *Harvest Home*. Dundalk: 1925.
- Pool, Robert and Cash, John. *Views of the most remarkable public buildings, monuments and other edifices in the city of Dublin*. Dublin: 1780.
- Price, Francis. *The British carpenter: A treatise on carpentry*. London: 1733.
- Rankin, Peter. *Irish building ventures of the Earl Bishop of Derry 1730 - 1803*. Belfast: 1972.

- Rudd, Mary Amelia. *Records of the Rudd family*. Bristol: 1920.
- Rutty, Dr. John. *An essay towards a natural history of Co. Dublin*. Dublin: 1774.
- Semple, George. *A treatise on the art of building in water*. Dublin: 1776.
- Severen, Ken. *Charleston, antebellum architecture and civic destiny*. Knoxville: 1988.
- Severen, Ken. "The Rebuilding of St. Werburgh's Church." *Bulletin of the Irish Georgian Society*. Vol. 35 (1993).
- Smith, James. *The carpenter's companion*. London: 1733.
- Stitt, Willaim. *The practical architect's ready assistant*. Dublin: 1819.
- Strickland, Walter. *Dictionary of Irish artists*. 2 vols. Dublin: 1913.
- Stubbs, J.W. *History of the University of Dublin from its foundation to the end of the eighteenth-century*. Dublin: 1889.
- The Belfast Newsletter*
- The Builder*
- The Georgian Society Records of Eighteenth-Century Domestic Architecture and Decoration in Dublin*. 5 vols. Dublin: 1909 - 1913.
- The Journal of the House of Commons of the Kingdom of Ireland*. 18 vols. Vols. II to XI. Dublin: 1692 - 1784.
- The Wren Society Volumes*. 20 vols. Oxford: 1924 - 1943.
- Thompson, F.M.L. *Chartered Surveyors: the growth of a profession*. London: 1968.
- Truxes, Thomas. *Irish American trade*. Cambridge: 1988.
- Turpin, John. *A school of art in Dublin since the eighteenth century*. Dublin: 1995.
- Vasari, Giorgio. *Lives of the most eminent painters, sculptors, architects*. 8 vols. London: 1864.
- Vitruvius [Marcus Vitruvius Pollio]. *The ten books of architecture*.
- Ware, Isaac. *A complete body of architecture*. London: 1735.
- Westropp, Dudley. *Irish glass*. Ed. Mary Boydell. Dublin: 1978.
- Wilkinson, George. *Practical geology and ancient architecture of Ireland*. London: 1845.
- Wilson, Peter. *Dublin Directories*. Dublin: 1752 - 1800.
- Windele, John. *Historical and descriptive notices of the City of Cork*. Cork: 1843.

Wittkover, Rudolf. *Palladio and English Palladianism*. London: 1994.

Yeomans, David T. "Early Carpenters' Manuals 1592 - 1820." *Building History*. Vol. 2 (1986).

Yeomans, David T. "Managing Eighteenth-Century Buildings." *Construction History*. Vol. 4 (1988).

Yeomans, David T. *The Architect and the Carpenter*. London: 1992.

Young, Arthur. *A Tour in Ireland*. 2 vols. Dublin: 1780.

MANUSCRIPT SOURCES

BELFAST

Public Record Office of Northern Ireland

Abercorn Papers

Blessington House Papers

Bristol Papers

Downhill Papers

Londonderry Papers

Mount Stewart Papers

Mussenden Papers

Wilmot Papers [typescript]

CORK

City Archives

Christ Church Vestry Accounts, 1664 - 1709.

DUBLIN

Dublin City Archive

Roll of Members of the Carpenters' Guild, 1656 [typescript]
Freedom Rolls of the City of Dublin

Dublin City Library, Pearse Street

Charter of Dublin Guild of Bricklayers and Plasterers, 1670.

Genealogical Office

The Betham Collection [new series]. Abstracts of Wills

Irish Architectural Archive

Boyle Papers. Accounts of Blessington House, Co. Wicklow

Drogheda Schoolmaster's House Folio

George Semple's proposal for Public Offices, 1758

George Semple's proposal for St. Patrick's Hospital, 1749

Michael Wills' Cash Book, 1731 - 1777

The General Accompt of Thomas Eyre

Thomas Eyre's Letterbook, 1756 - 1765

Irish Georgian Society

Report on Ledwithstown House by Mary McGrath, 1993

National Archives

Ball Accounts, 1733 - 1757

Royal Hospital, Kilmainham - Minutes of the Board of Governors.

National Library of Ireland

Blue Coat School Papers

Castleforward Papers

Charlemont correspondence

Clements Papers

Flower Papers

Indexed Abstracts of Deeds

Kells' Church Accounts

Kilmainham Papers

Pakenham Mahon Papers

Papers of the Incorporated Society for the Promotion of Protestant Schools [microfilm]
1760 - 1828

Records of the Guild of St. Luke the Evangelist. Vols. I - III. 1676 - 1728

Sexton Pery Papers

National Museum

Charter of the Guild of St. Luke the Evangelist, Dublin

Registry of Deeds

Indexed Abstracts of Deeds

Royal Irish Academy

Charlemont Correspondence

Papers of the Incorporated Society for the Promotion of Protestant Schools (Microfilm)
1760 - 1828.

Trinity College Dublin

Diary of Daniel Augustus Beaufort

Muniment Records, P2 series

Steevens Hospital - Building Accounts, 1720 - 1728

Steevens Hospital - Minute Books of the Board of Governors, 1782 - 1806; 1806 -
1819; 1819 - 1831

LIMERICK

Limerick City Archive

Minutes of the Limerick Guild of Masons, Bricklayers, Slaters, Plasterers, Paviours,
Painters and Limeburners: 1747 - 1756.

LONDON**British Architectural Library [RIBA]**

Correspondence of Sir William Chambers

Diary of C.R. Cockerell

Robert Mylne's Site Notes of Construction of Blackfriars Bridge, 1763 - 1766

British Library

Egmont papers

Public Record Office

Export - Import Ledgers, 1698 - 1829 (Cust. 15)