

**THE DEVELOPMENT OF THE WINDOW IN
IRELAND c. 1560 – 1860, WITH AN ANALYSIS OF
THE IMPLICATIONS FOR CONSERVATION**

VOLUME ONE: AN HISTORICAL SURVEY

**VOLUME TWO: CONSERVATION PHILOSOPHY, INVENTORIES
AND DOCUMENTATION**

VOLUME THREE: ILLUSTRATIONS

VOLUME THREE

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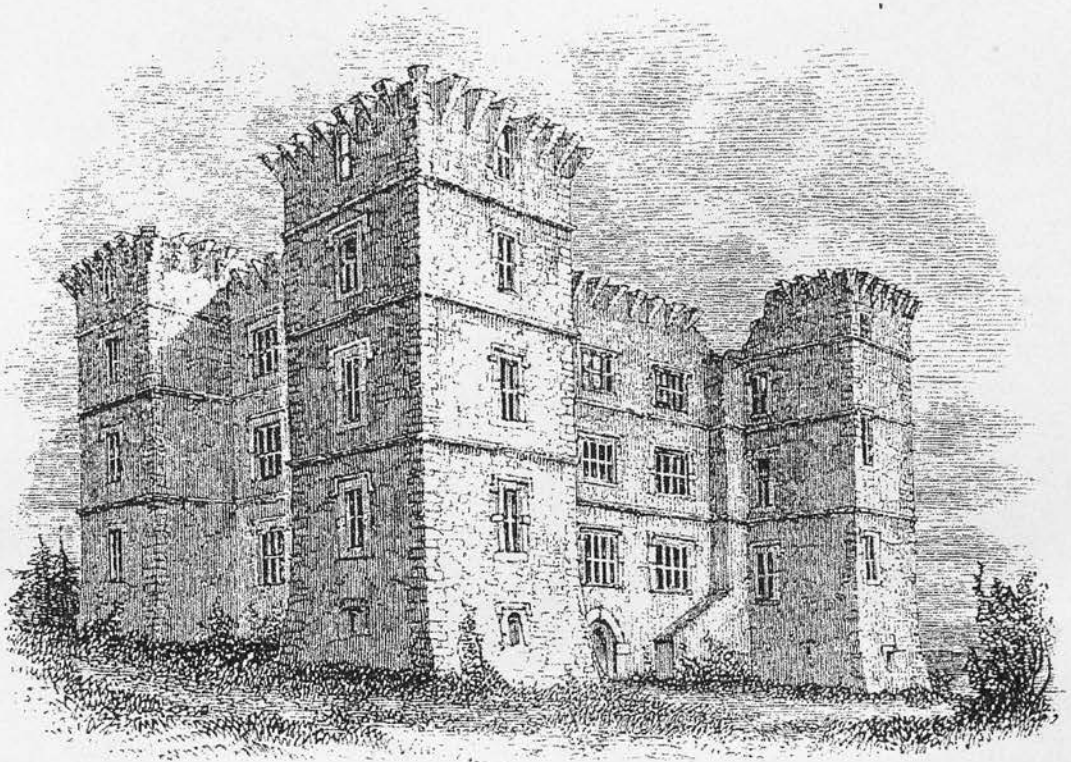


Plate 2 Kanturk Castle, Co. Cork

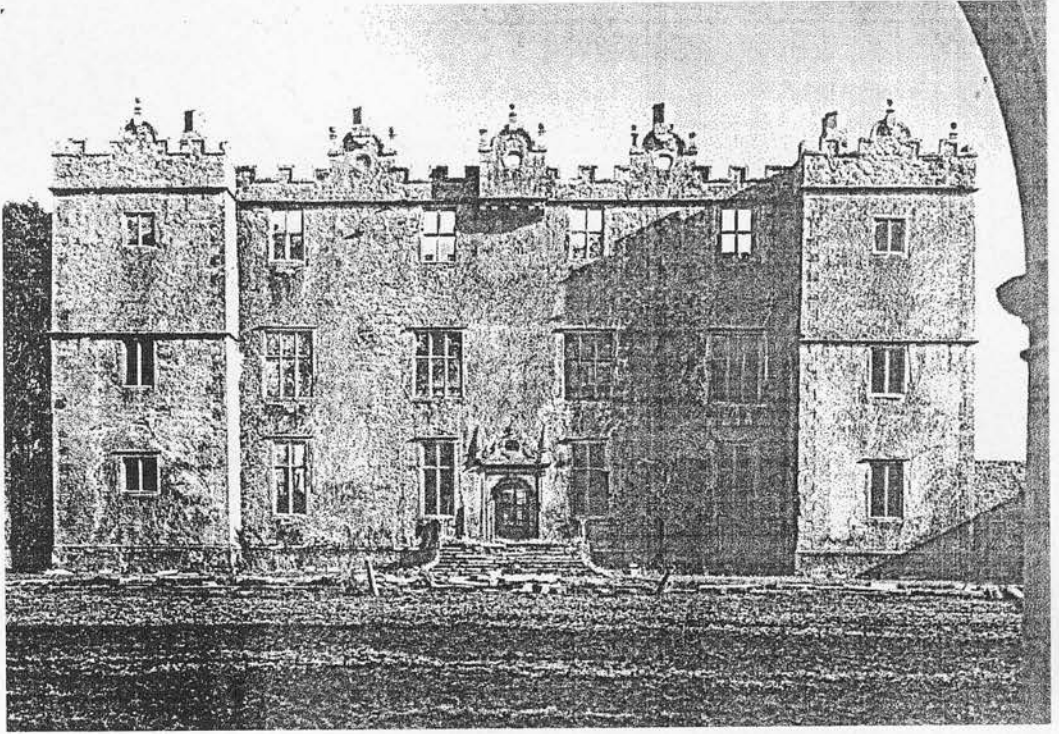


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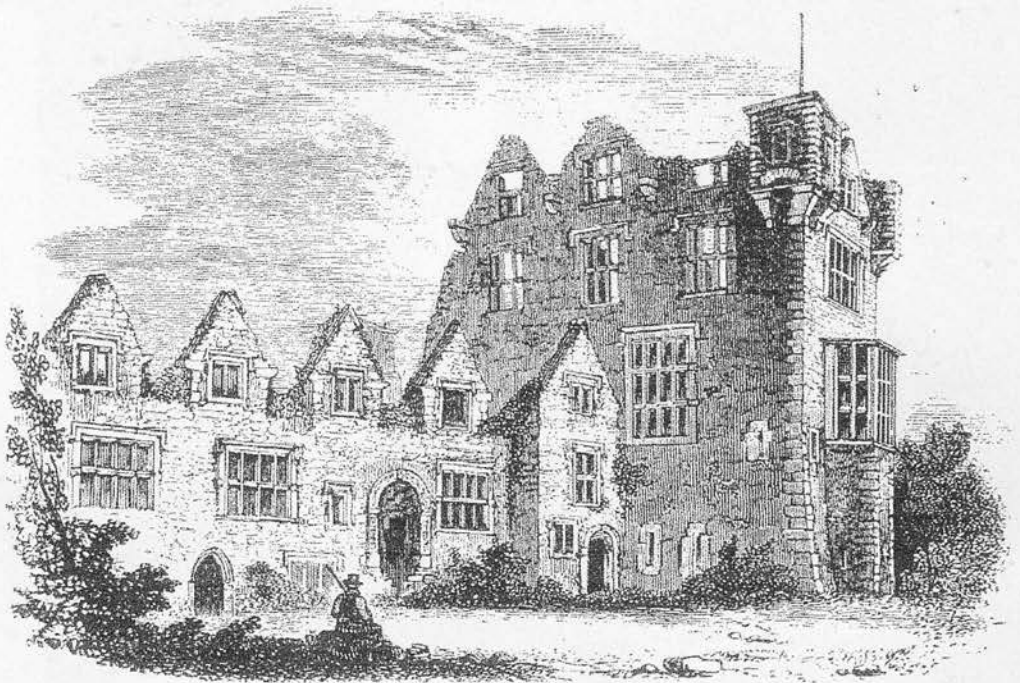


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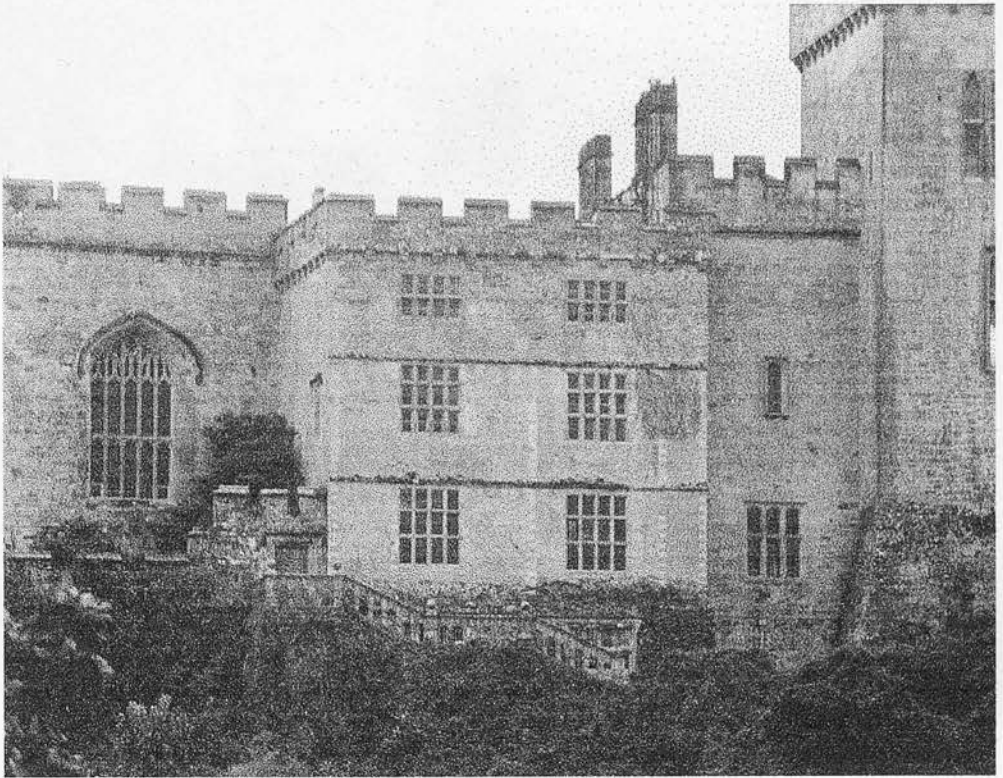


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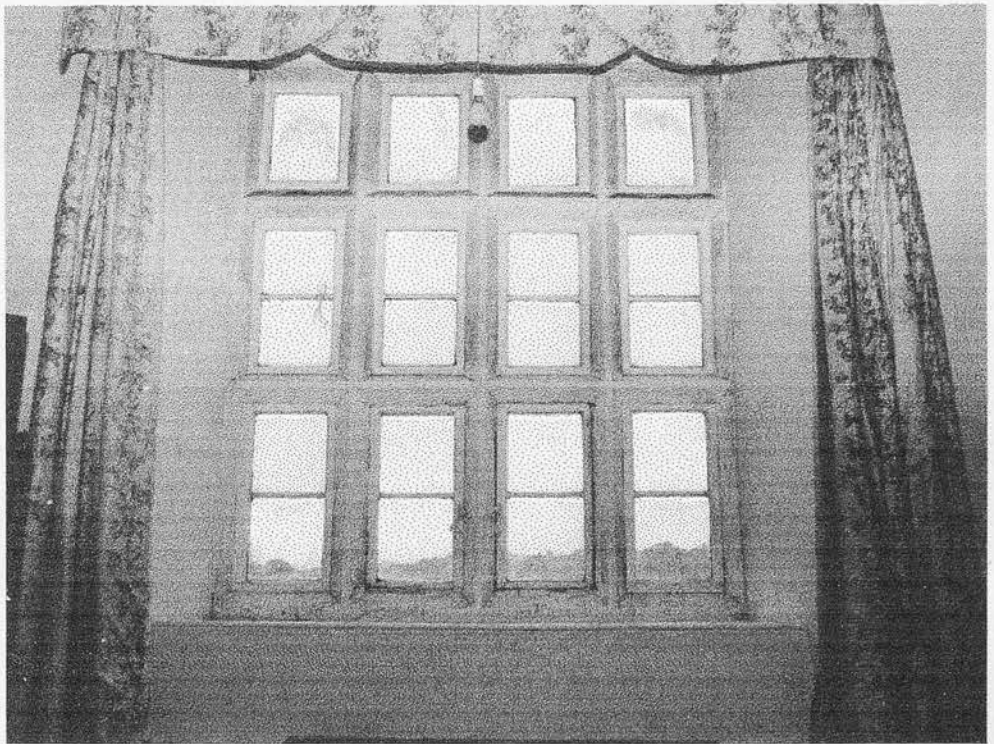


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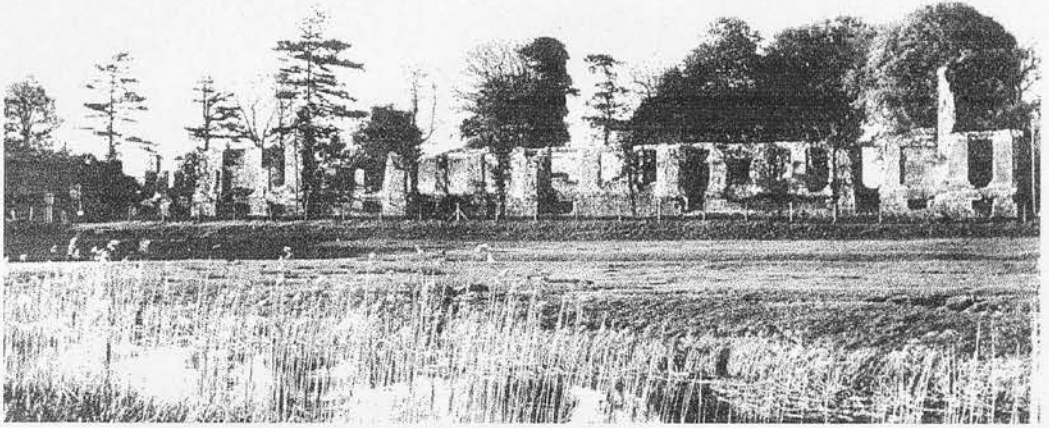


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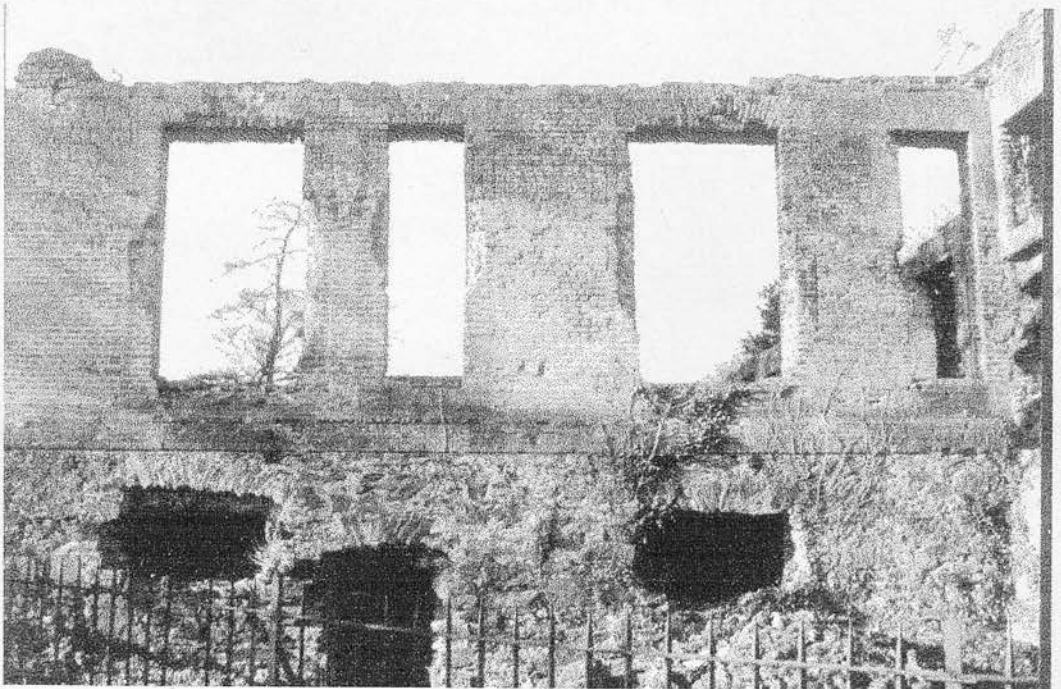


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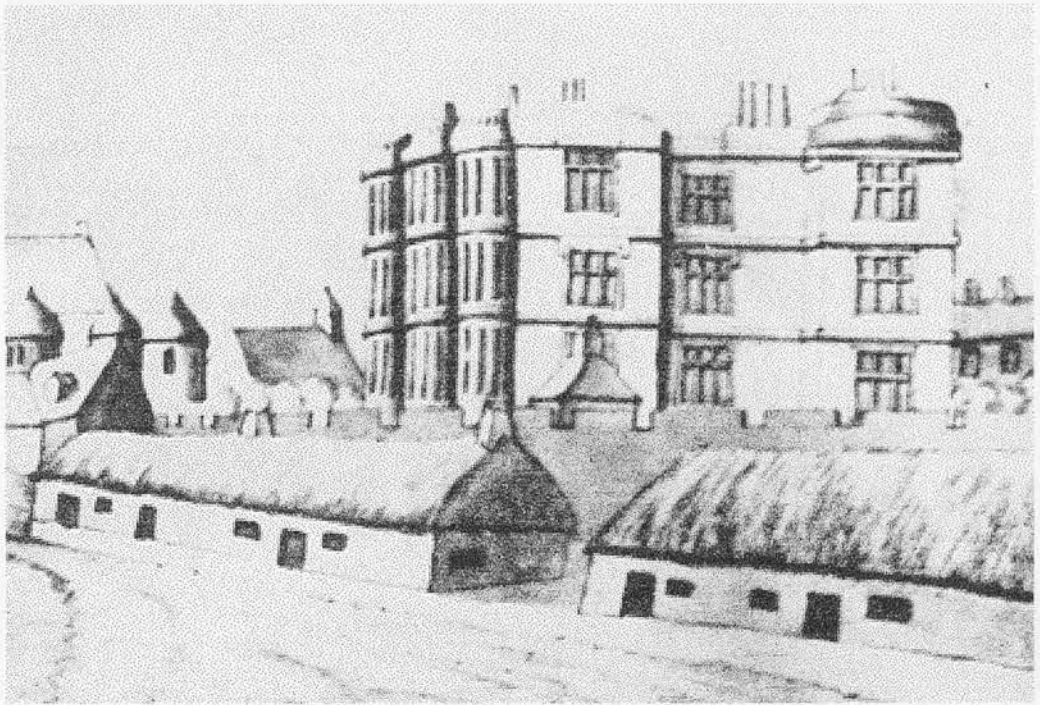


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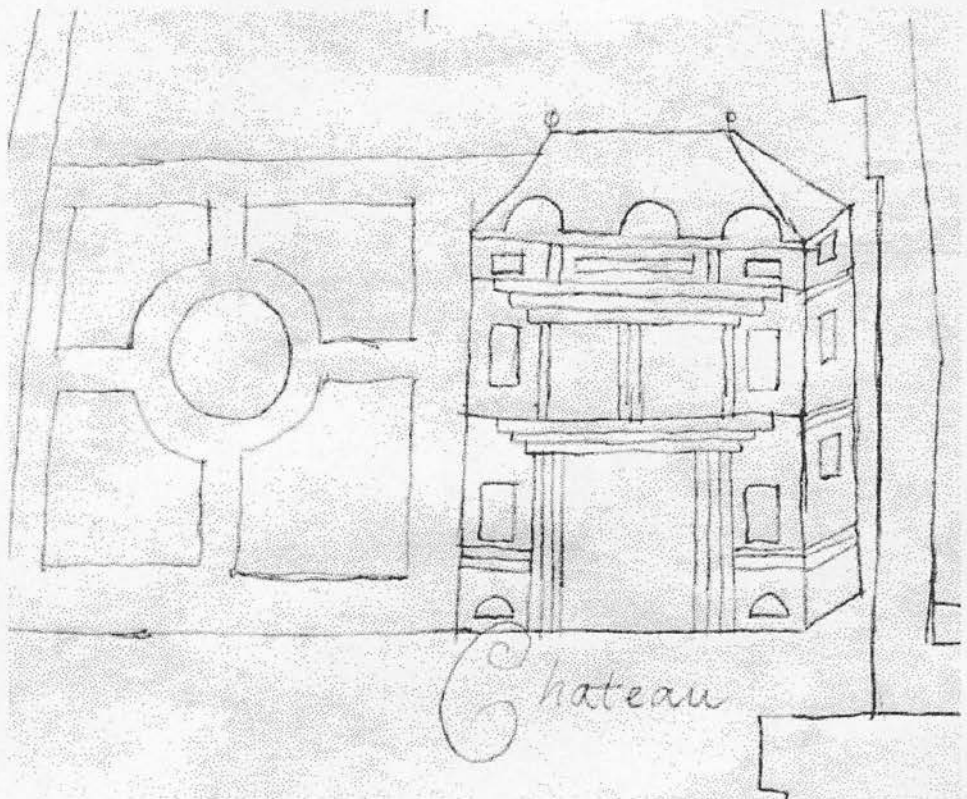


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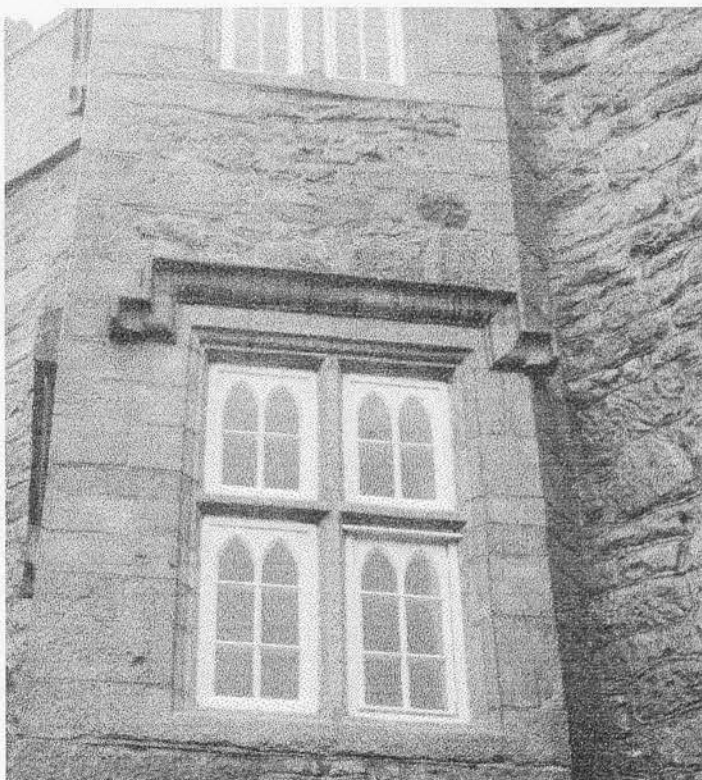


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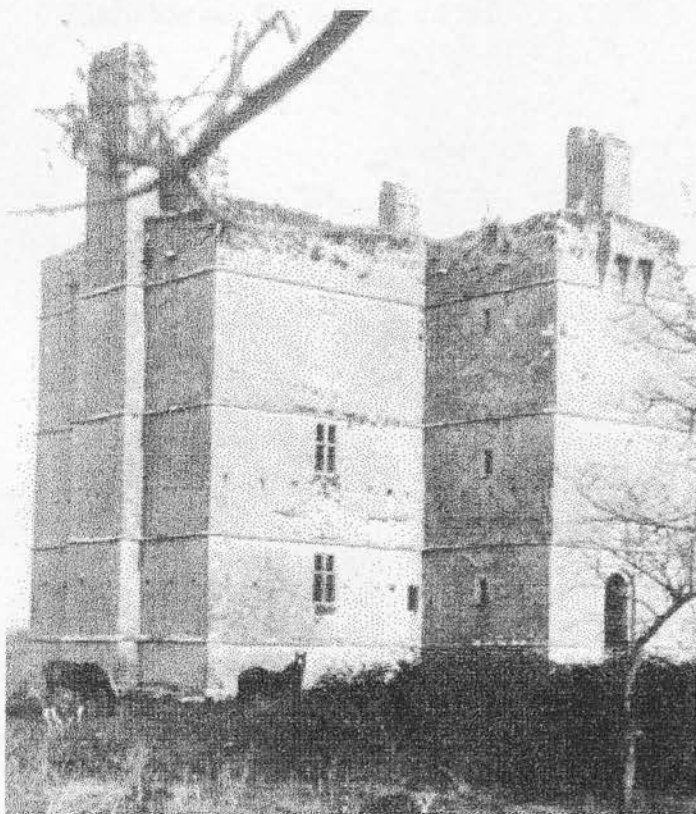


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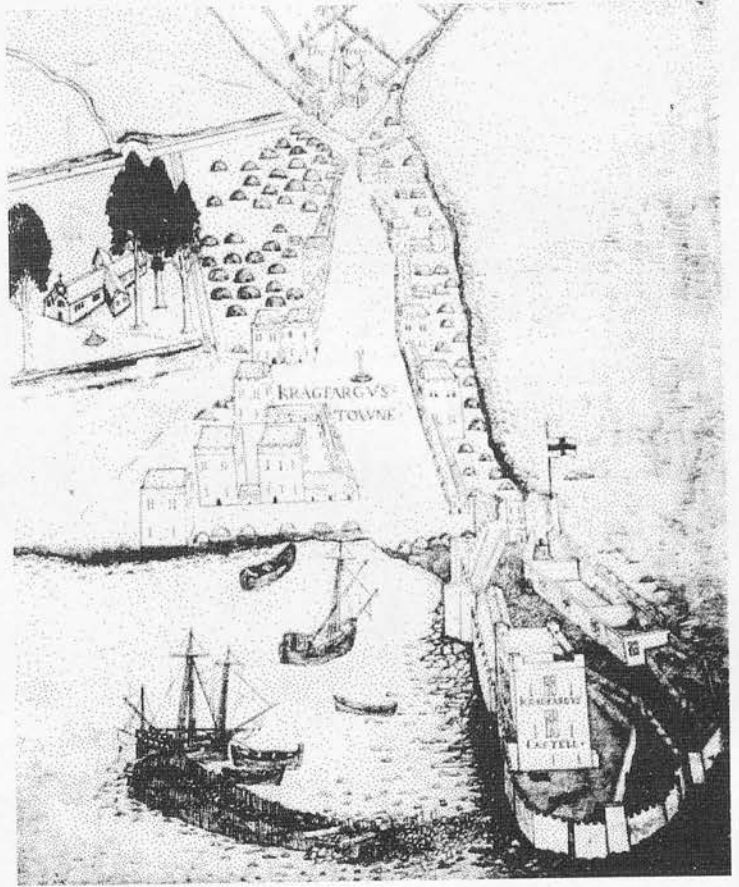


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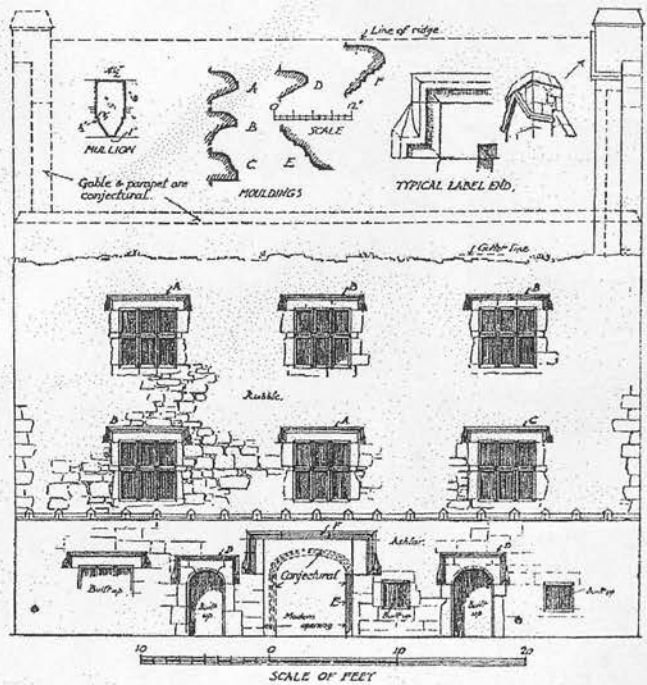


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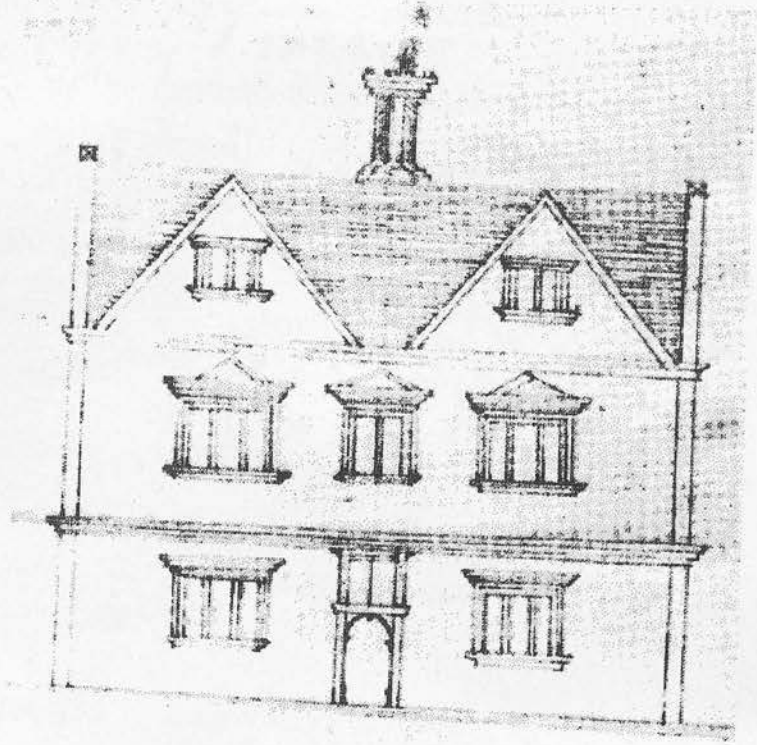


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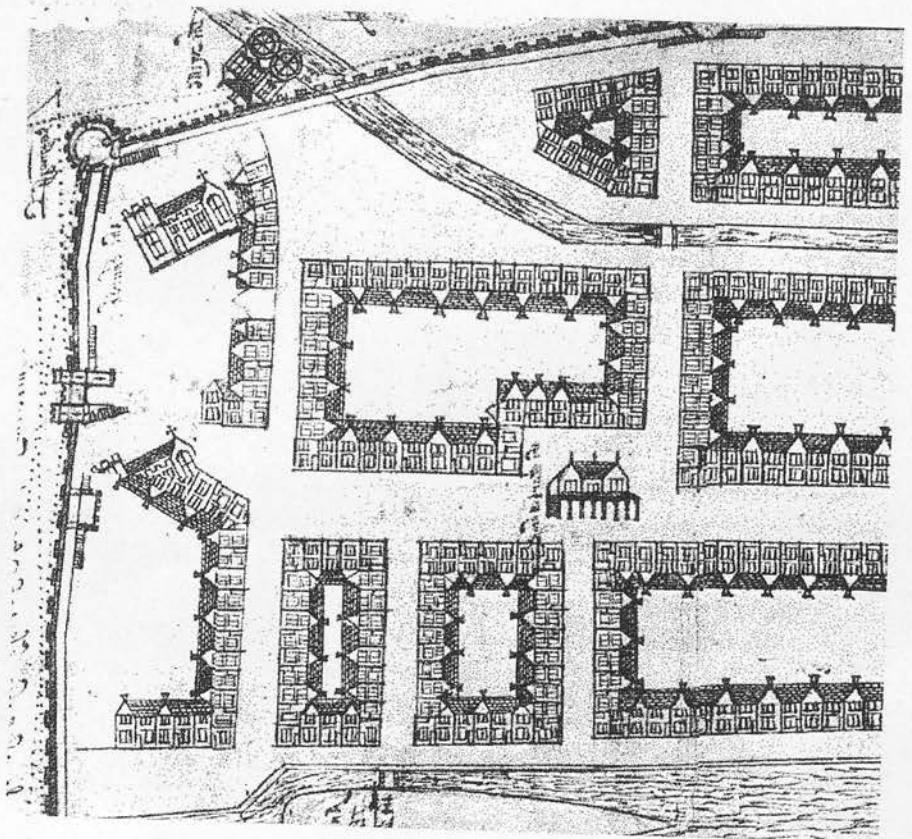


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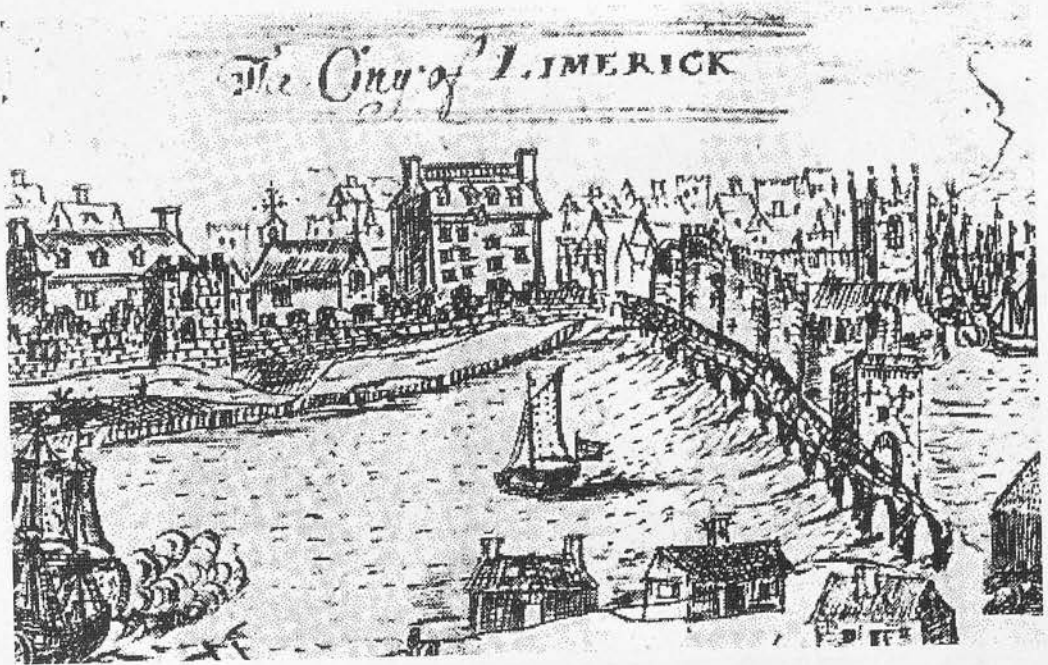


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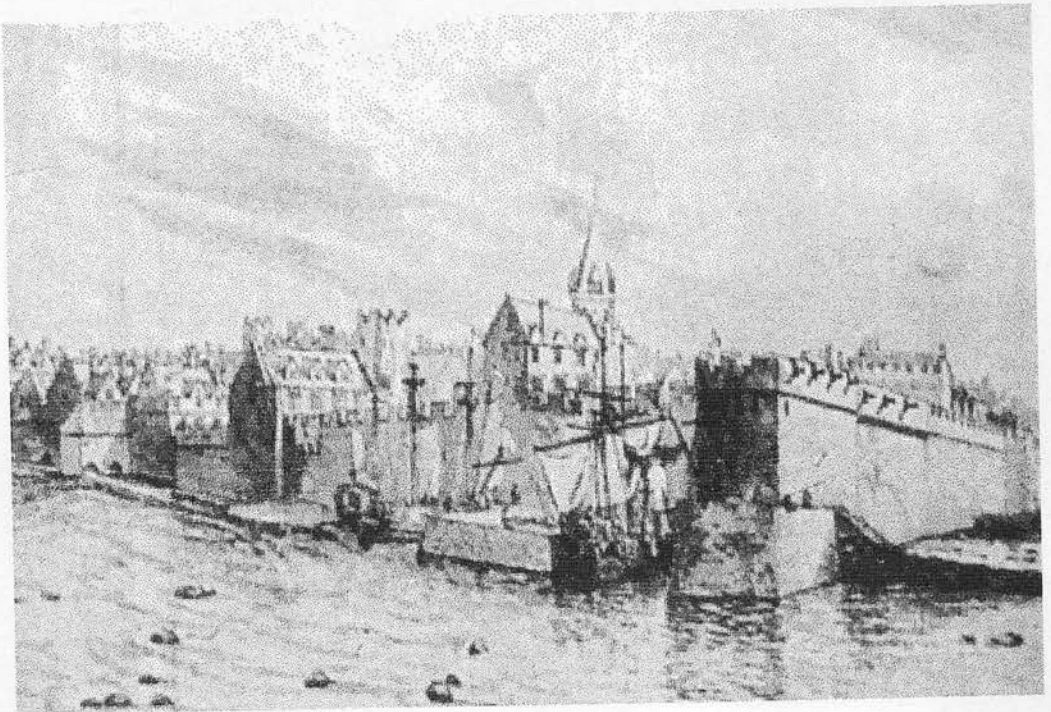


Plate 15 ii Galway City (c.1685)

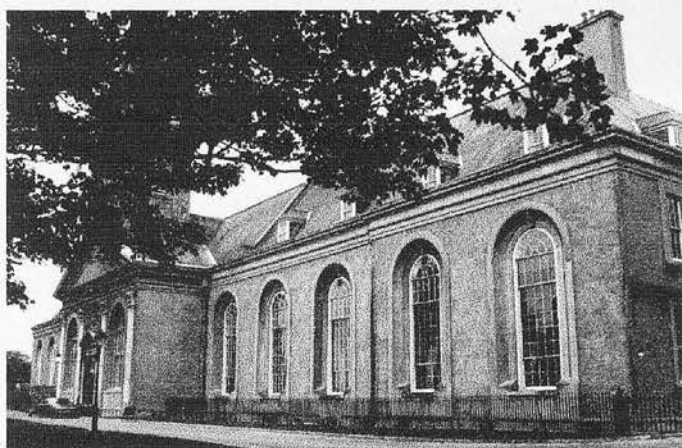
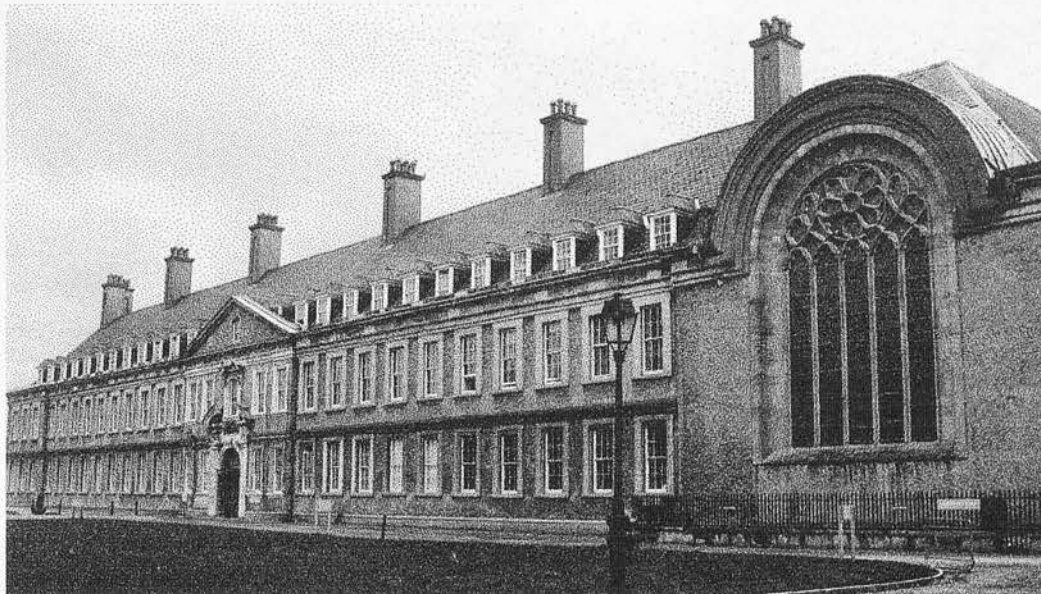


Plate 16 i-ii Royal Hospital, Kilmainham, Dublin, east and north elevations

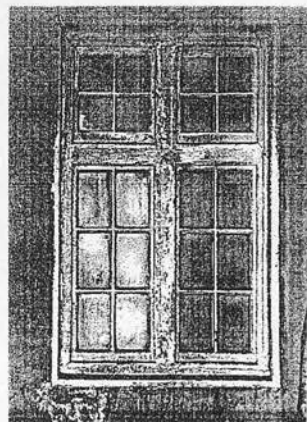


Plate 16 iii-iv Royal Hospital, courtyard windows



Plate 17 i Waringstown, Co. Down



Plate 17 ii Waringstown, side elevation



Plate 18 i Richhill, Co. Armagh

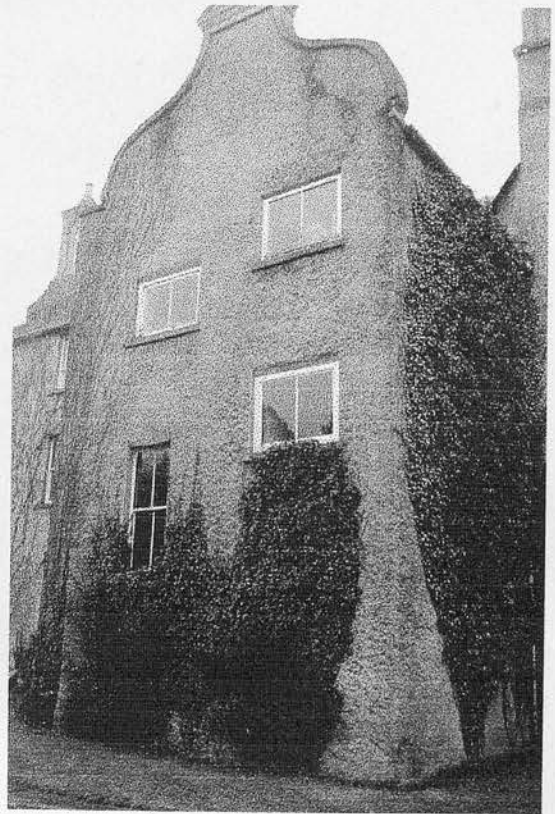


Plate 18 ii Richhill, stair projection

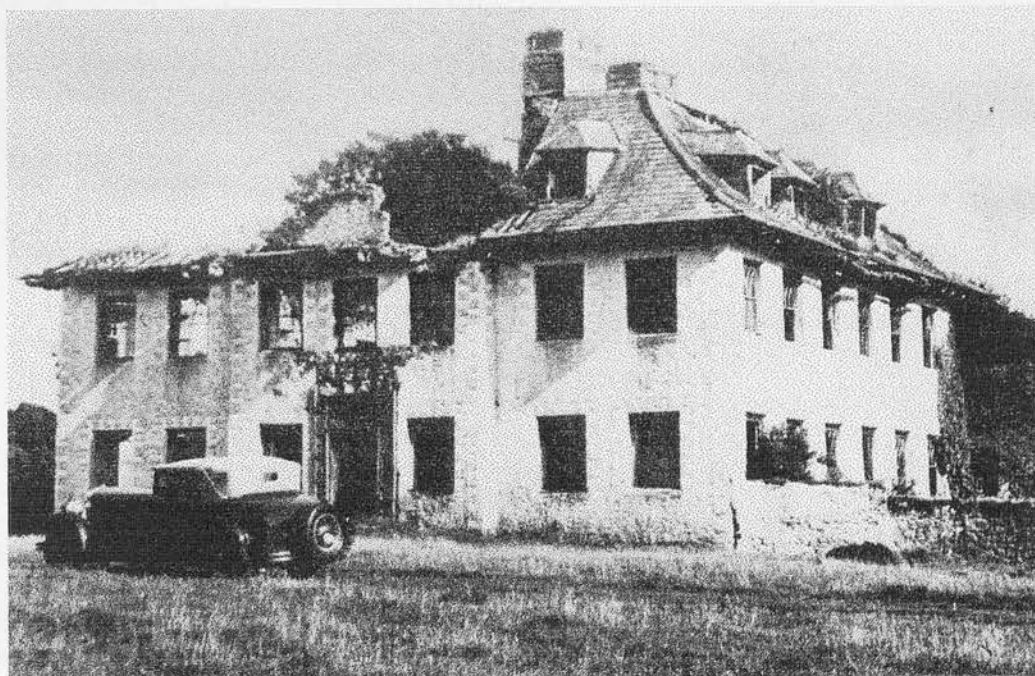


Plate 19 i Eyrecourt, Co. Galway



Plate 19 ii The doorcase, Eyrecourt (c.1860)

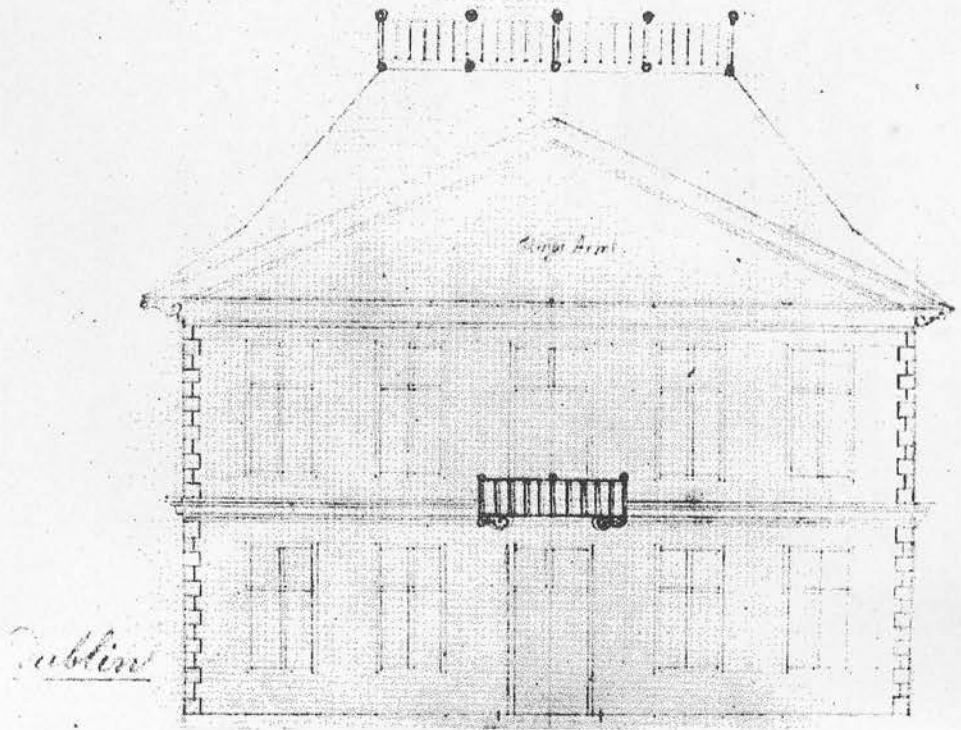


Plate 20 i Dublin Castle 'Grand Entrance'

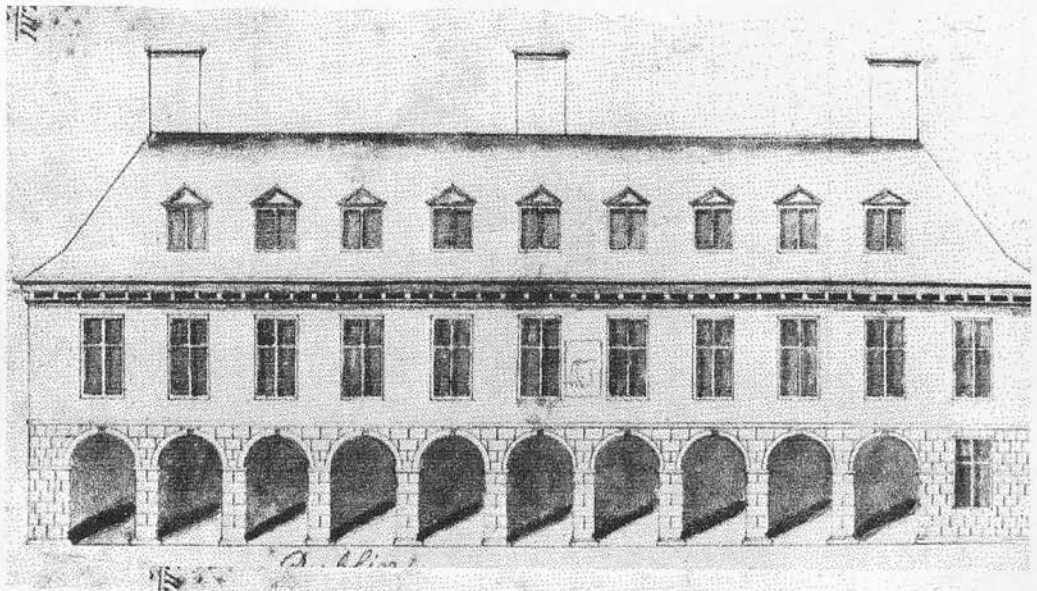


Plate 20 ii Dublin Castle 'Great New Building on Arches'

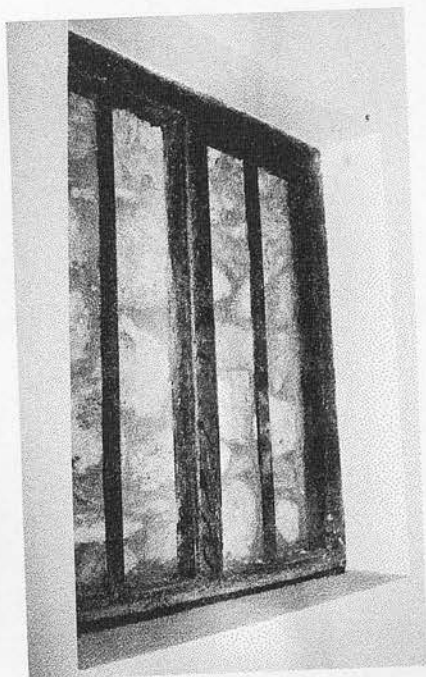
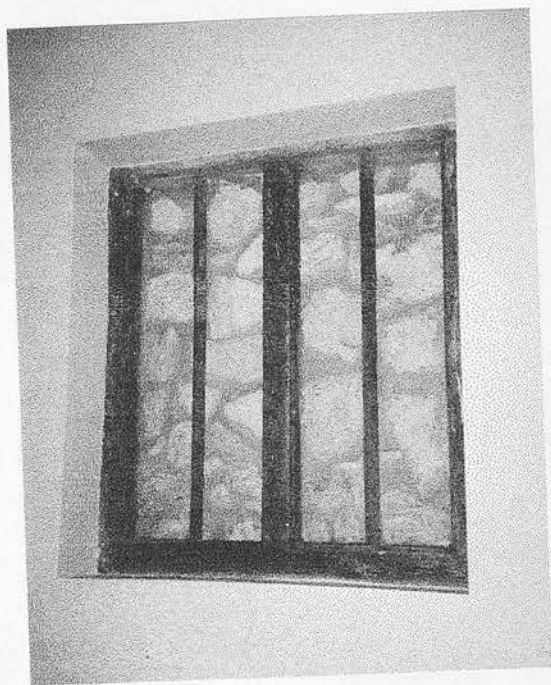


Plate 21 i-ii Ballybritten Castle, Co. Offaly

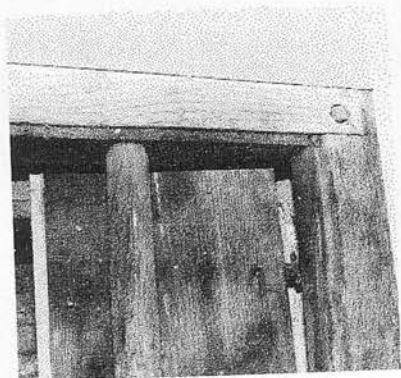


Plate 22 i-ii No. 28 The Parade, Donaghadee, Co. Down



Plate 23 i Assolas, Co. Cork, old front elevation

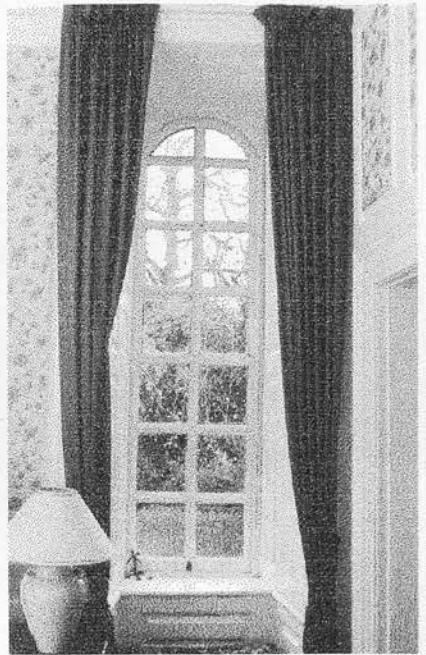


Plate 23 ii Assolas, first floor window



Plate 24 i Southwell Gifhouses, Kinsale, Co. Cork



Plate 24 ii Southwell Gifhouses, west range

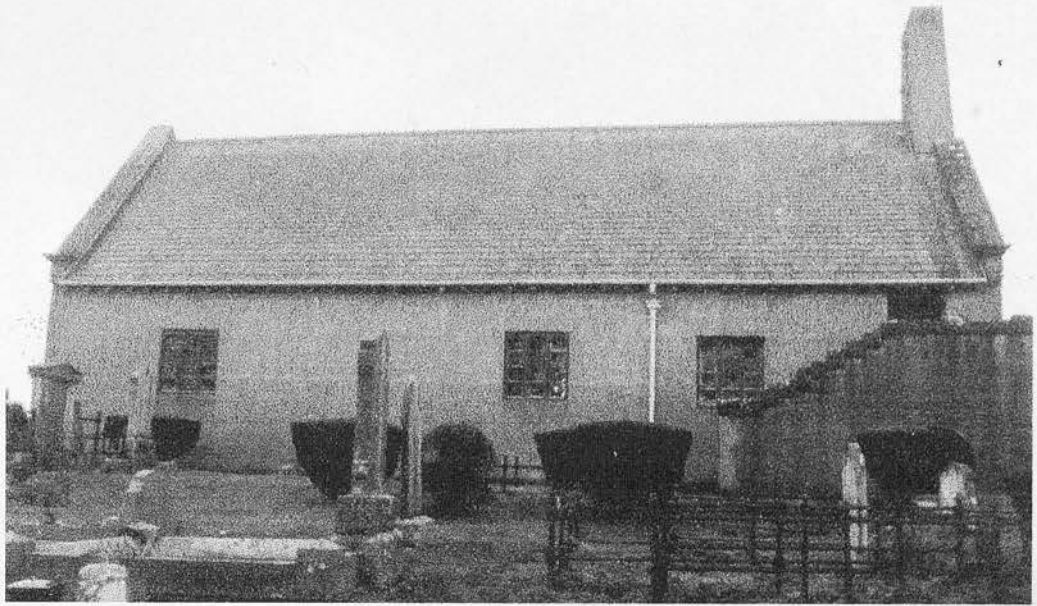


Plate 25 i Ballinderry Middle Church, Co. Antrim

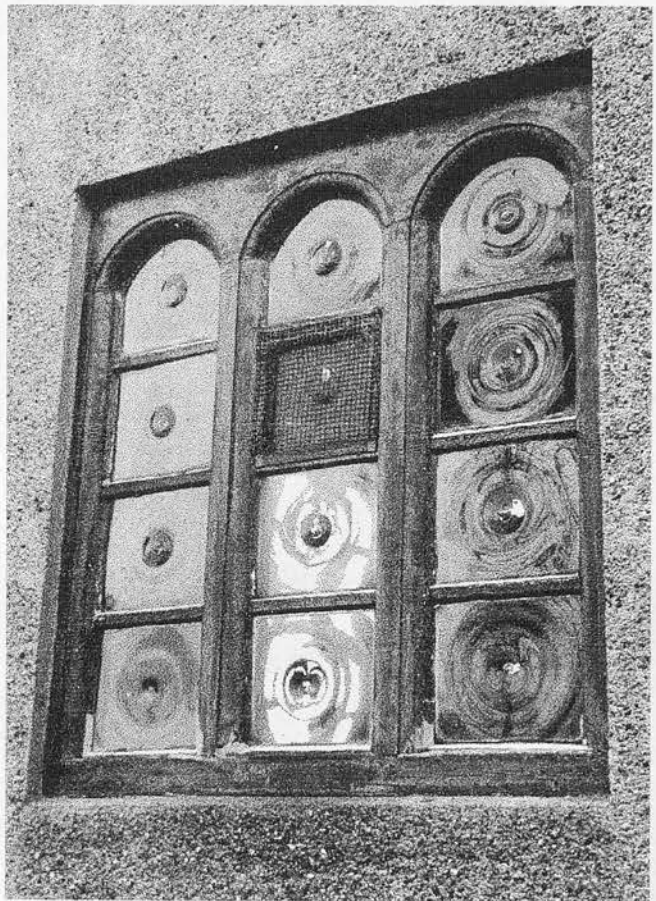


Plate 25 ii Ballinderry Middle Church, north side of nave

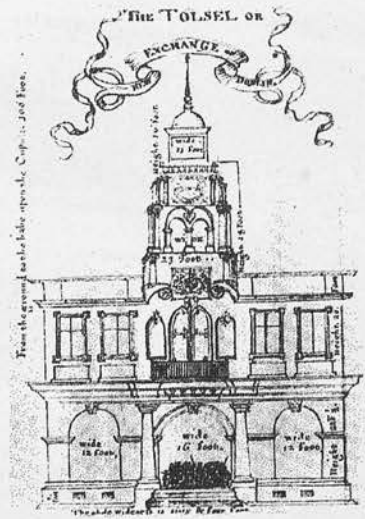


Plate 26 i Tholsel, Dublin (c.1681)

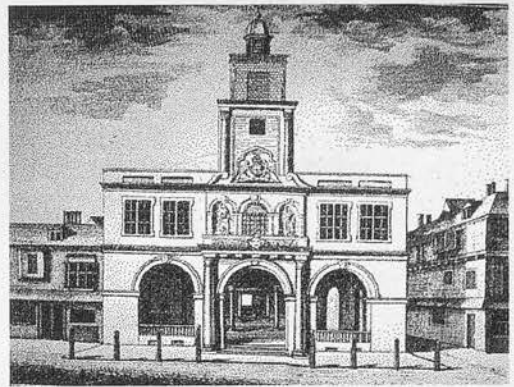


Plate 26 ii Tholsel, Dublin (1728)

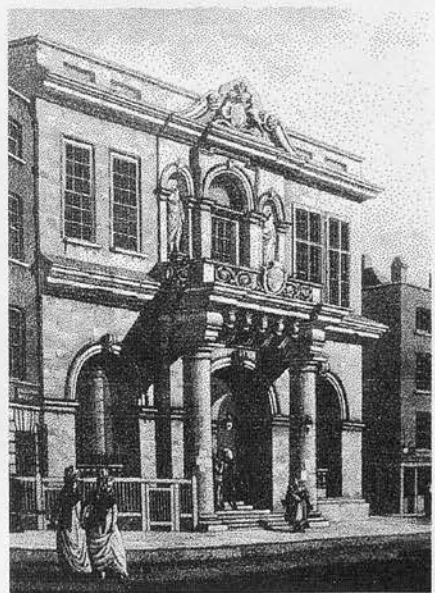


Plate 26 iii Tholsel, Dublin (c.1795)



Plate 27 Waringstown, window to south side elevation

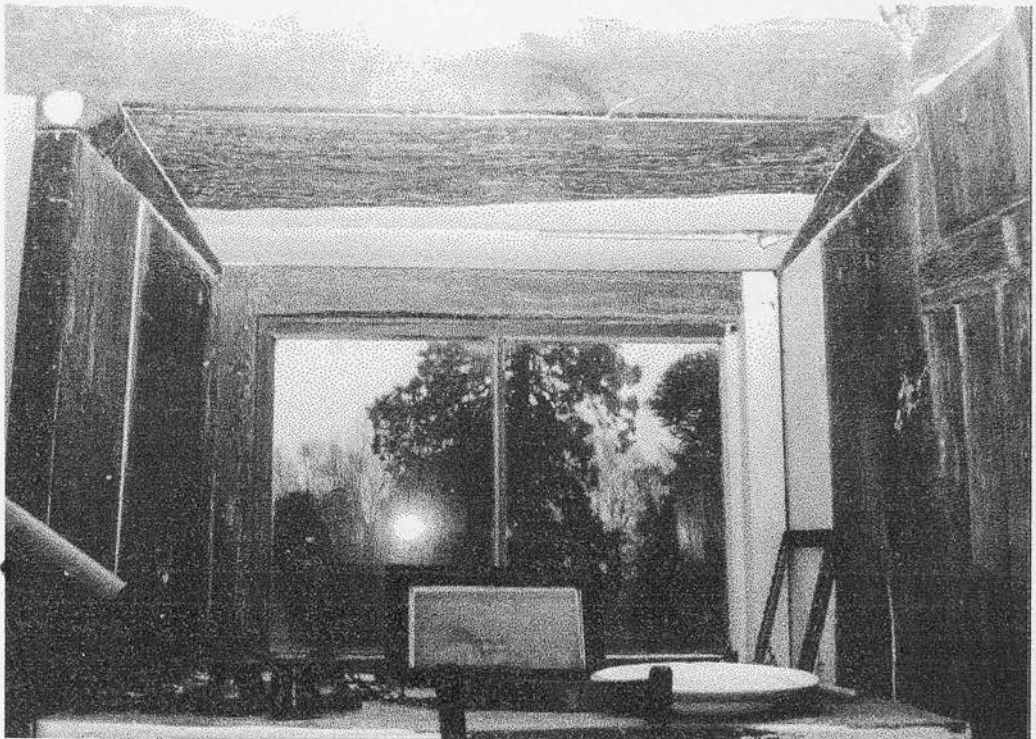


Plate 28 Richhill, stair window

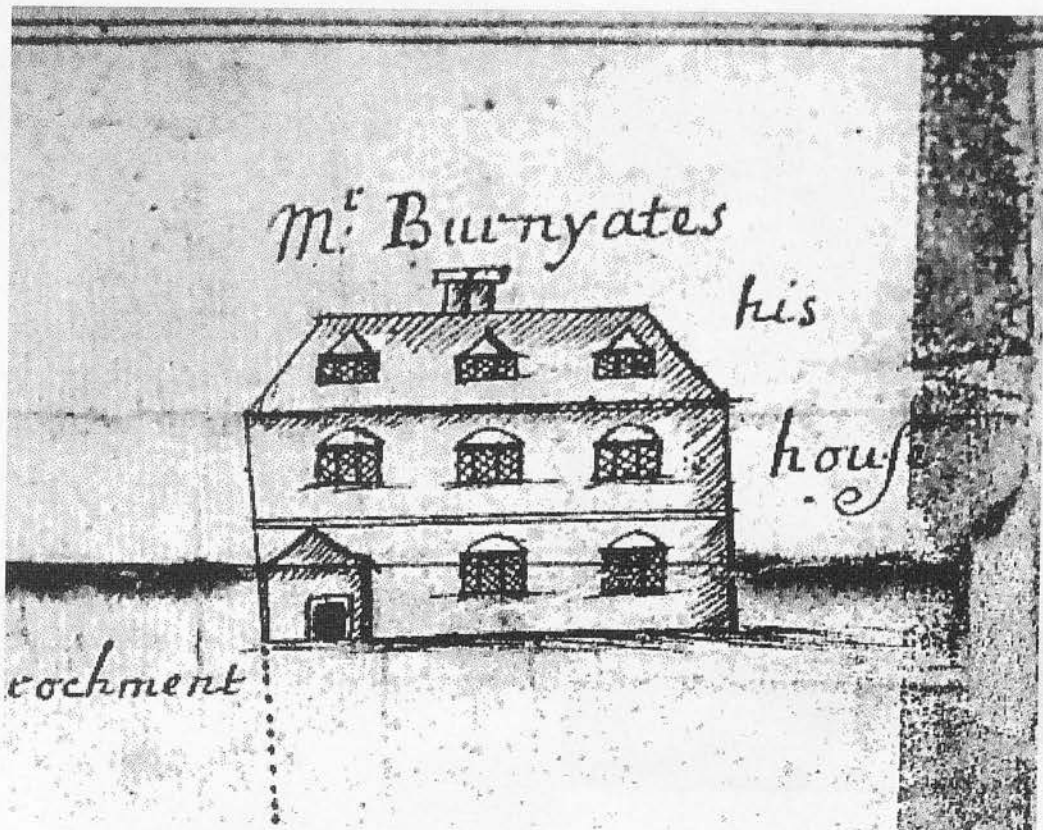


Plate 29 Mr Burnyates' House, Dublin (1680)

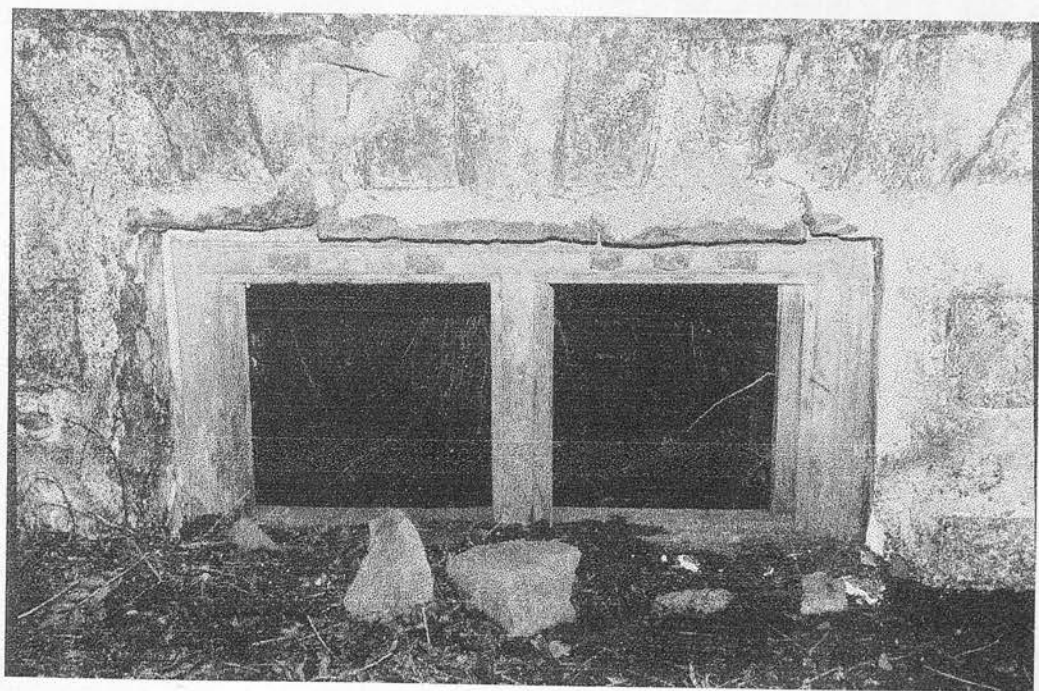


Plate 30 Eyrecourt, basement window, side elevation

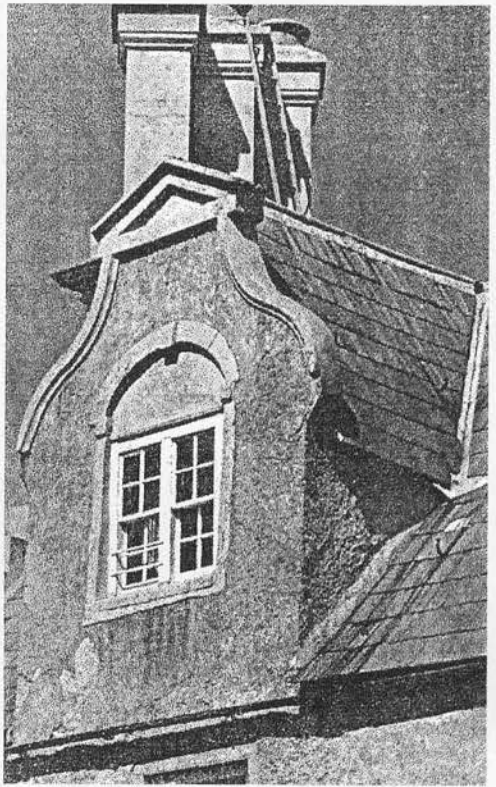


Plate 31 Waringstown, 'Holborn' gable

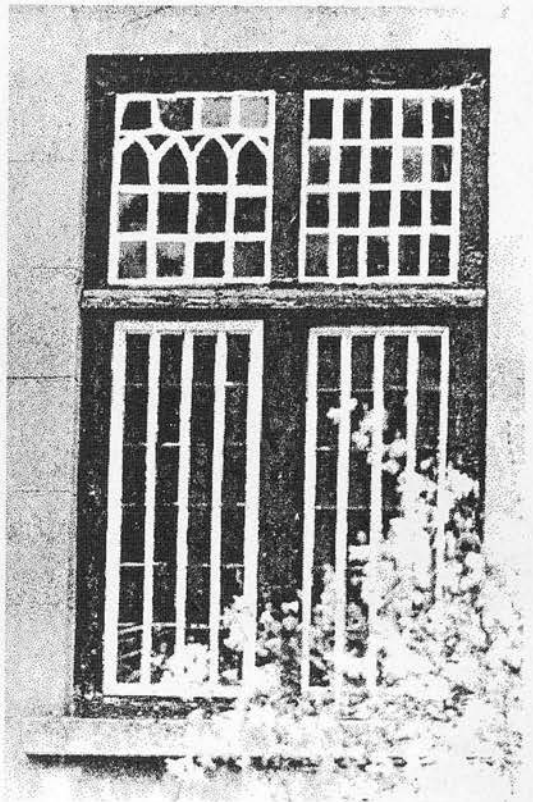


Plate 32 Kilkenny Diocesan Library window

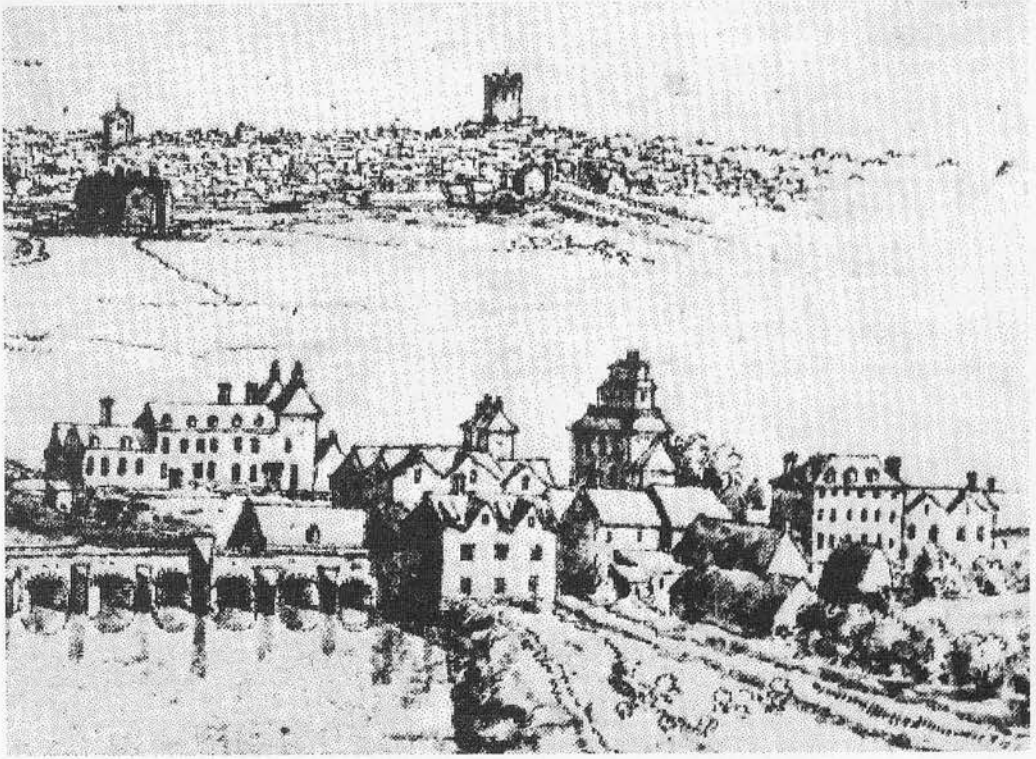


plate 33 i View of Islandbridge, near Dublin (c.1698)

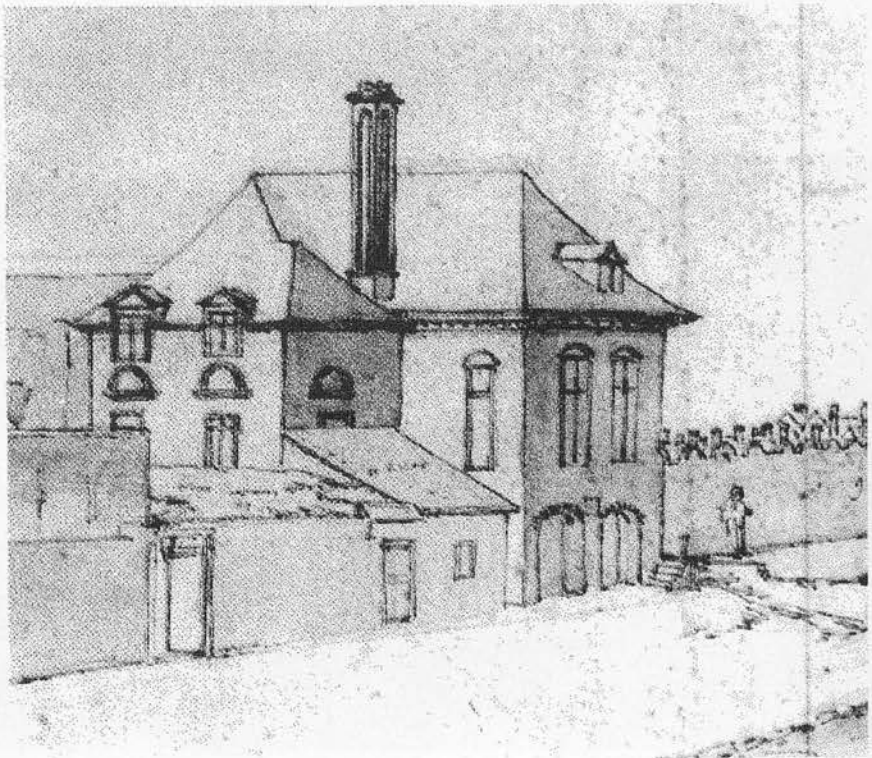


plate 33 ii House on the north bank of the Liffey, Dublin (c.1698)



plate 34 i View of Dublin (1728)

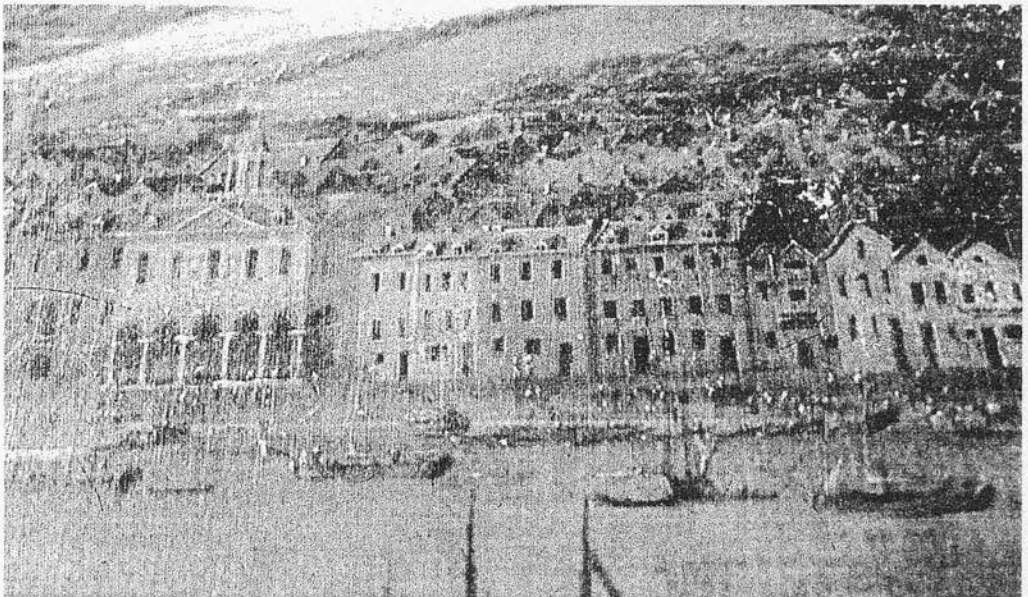


plate 34 ii View of Waterford (c.1730)



Plate 35 Doneraile Court, Co. Cork

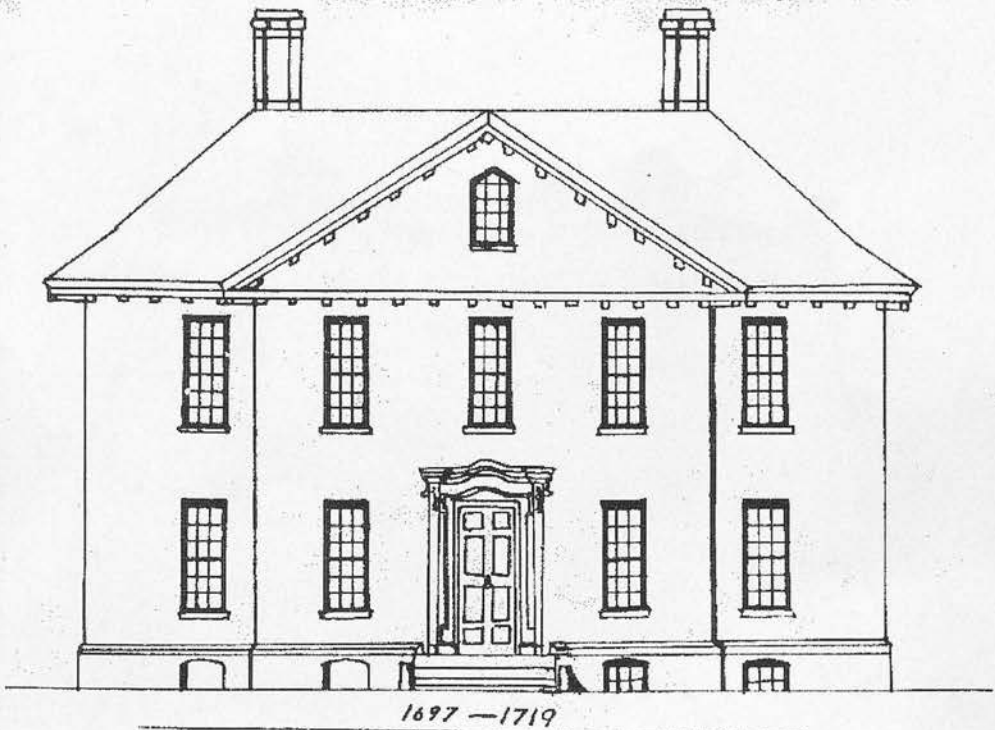


plate 36 Kilmacurragh, Co. Wicklow

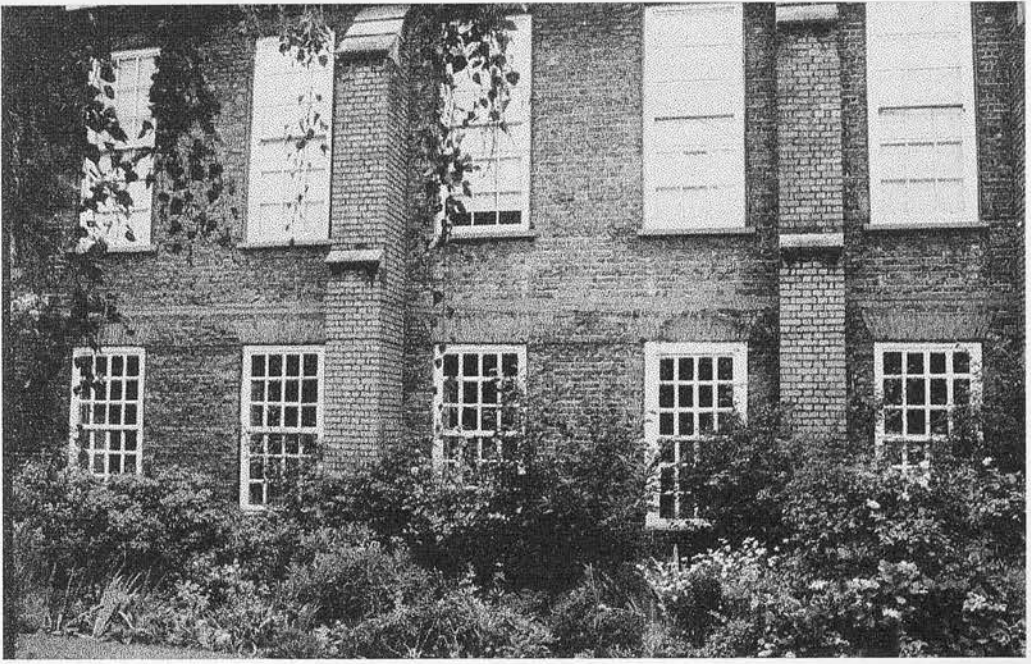


Plate 37 Marsh's Library, Dublin, courtyard elevation

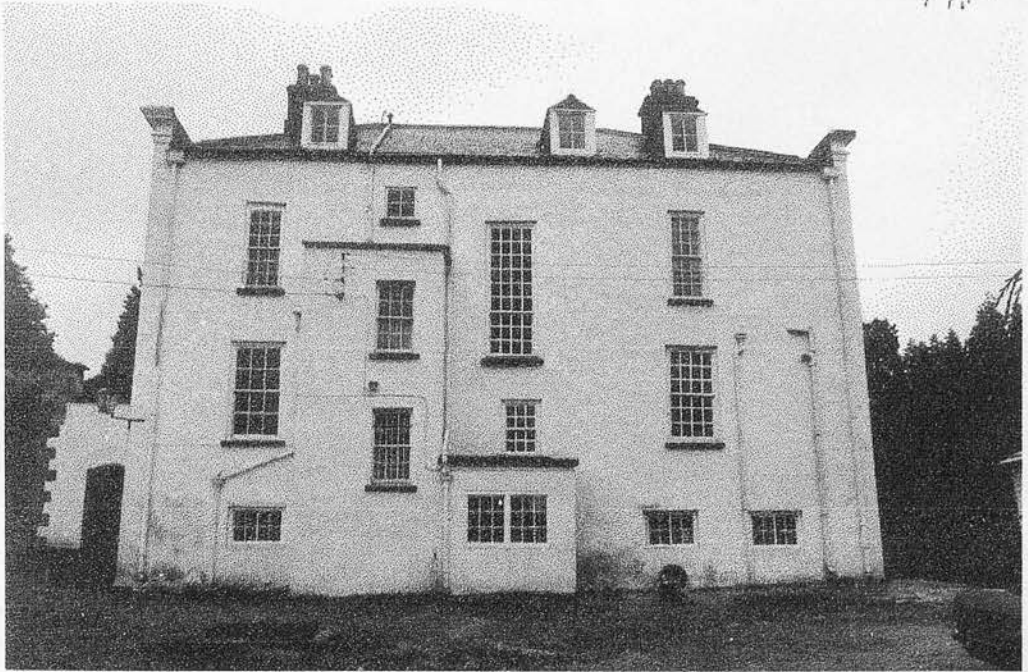
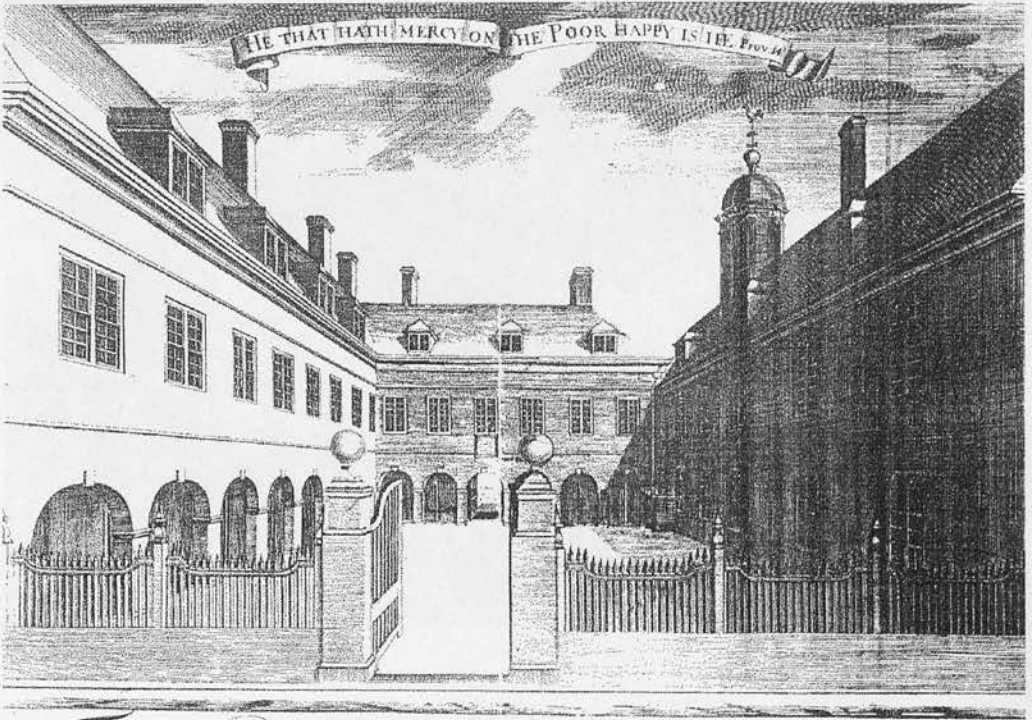


Plate 38 Castlelough, Co. Tipperary, rear elevation



The West Prospect of Betridges & Skiddy's Almshouses

Plate 39 i Betridges and Skiddy's Almshouses, Shandon, Cork (1721)

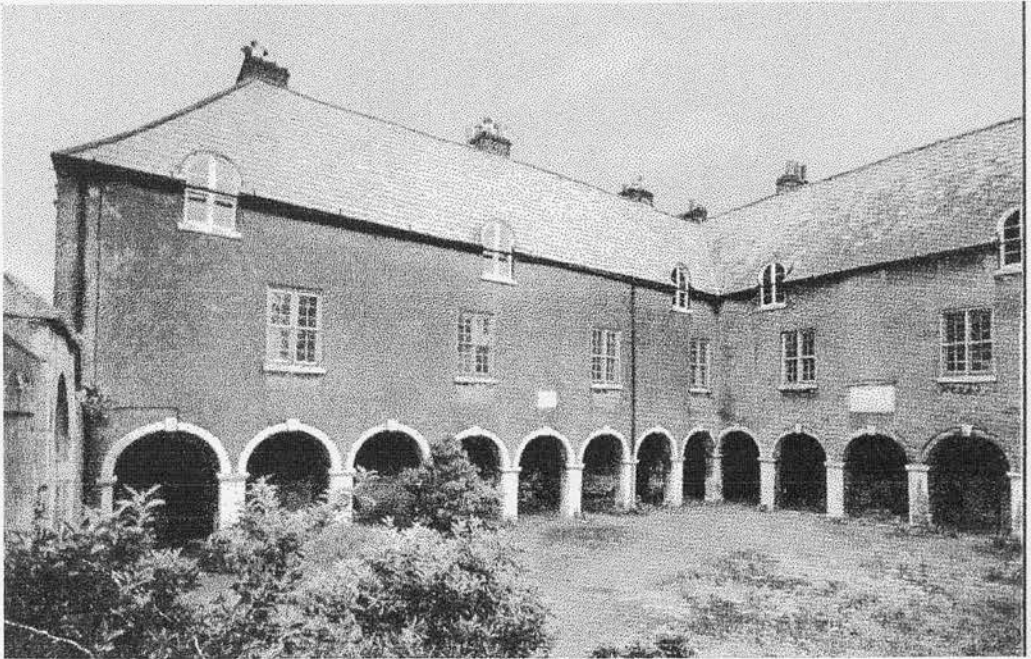


Plate 39 ii Skiddy's Almshouses

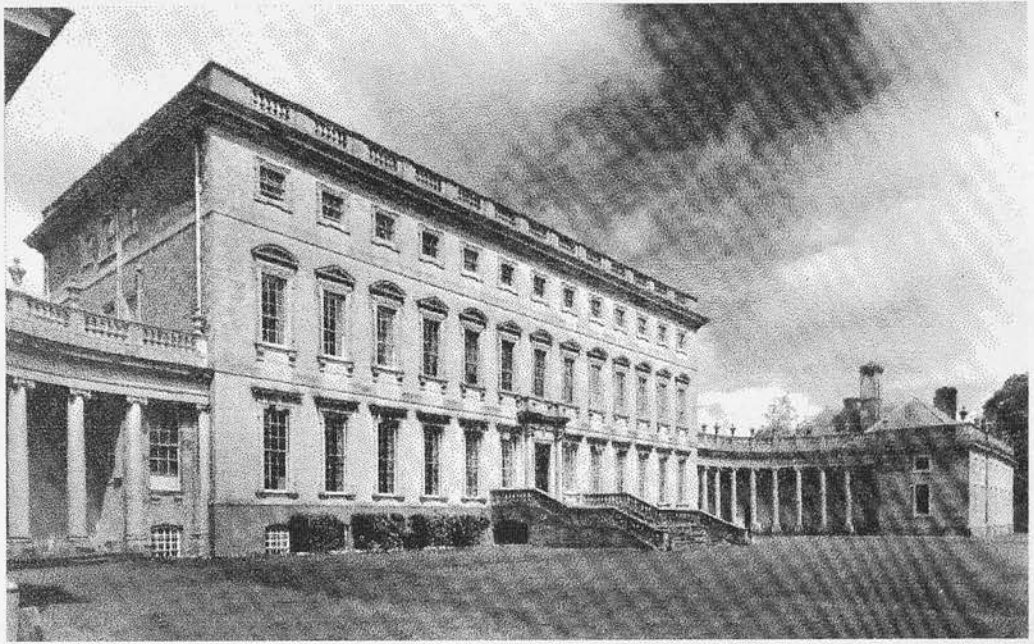


Plate 40 i Castletown, Co. Kildare



Plate 40 ii Castletown, basement window

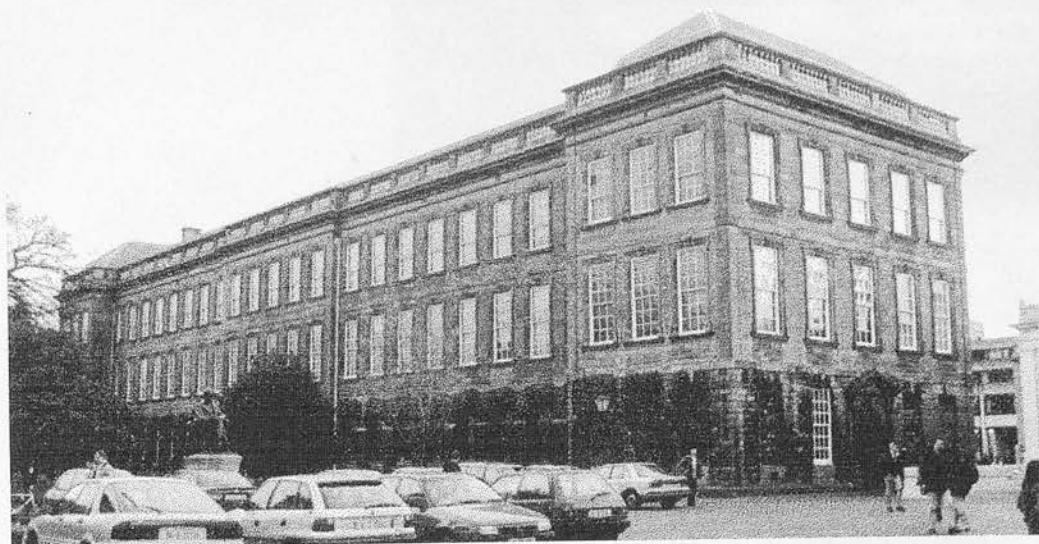
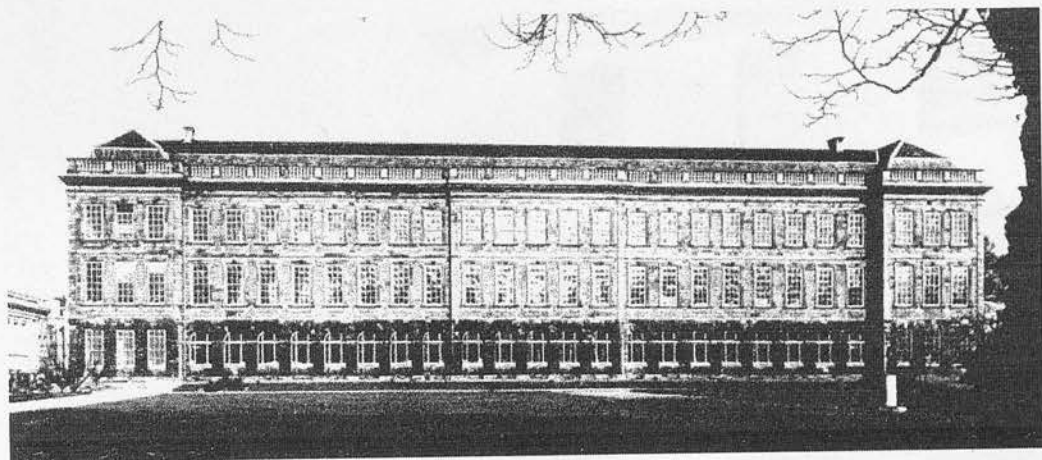


Plate 41 i-ii Trinity College Library

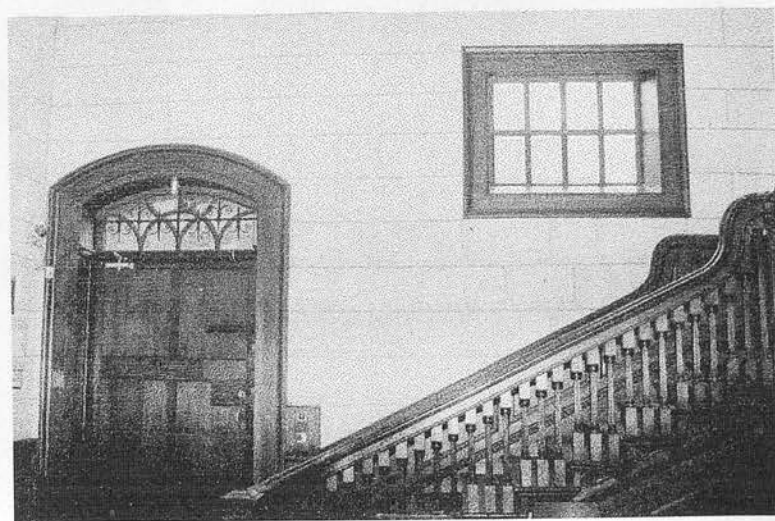


Plate 41 iii Trinity College Library, interior of gable end entrance



Plate 42 i The Brazen Head, Dublin

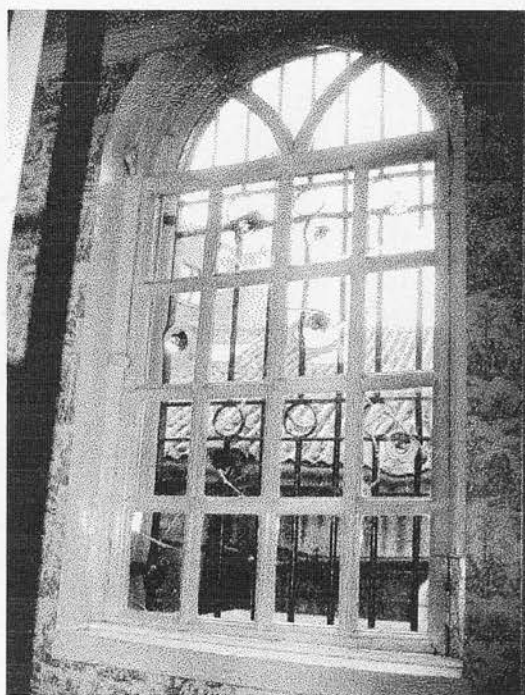
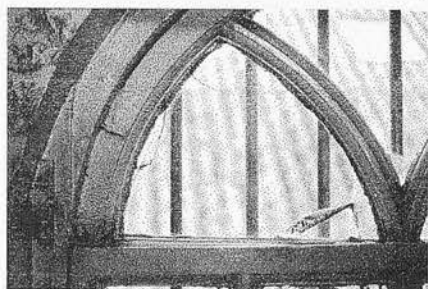


Plate 42 ii-iii Stairwell window, Brazen Head



Plate 43 i Beaulieu, Co. Louth

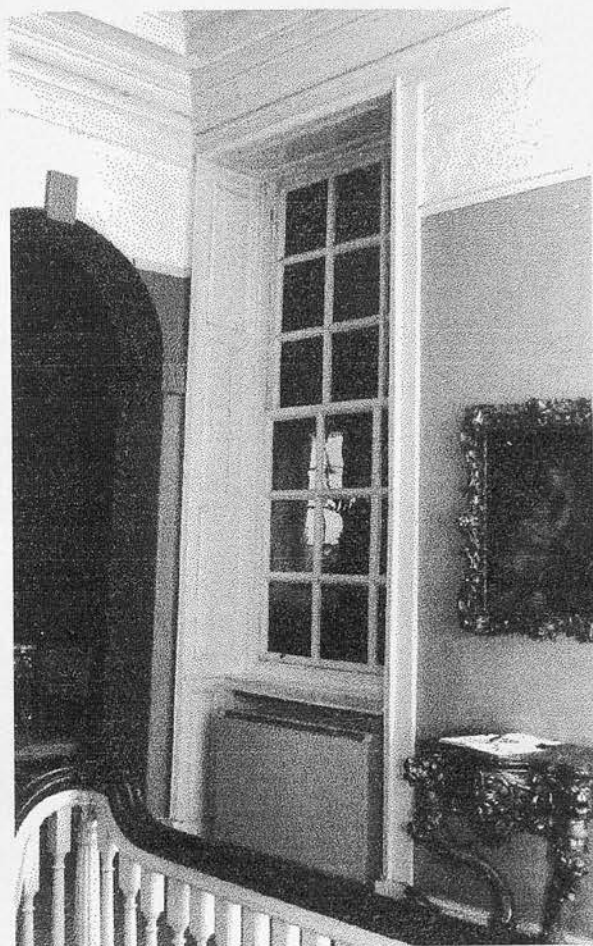


Plate 43 ii Beaulieu, internal sash-window



Plate 44 i Bellamont Forest, Co. Cavan



Plate 44 ii Bellamont Forest, side elevation



Plate 45 i Red House, Youghal, Co. Cork

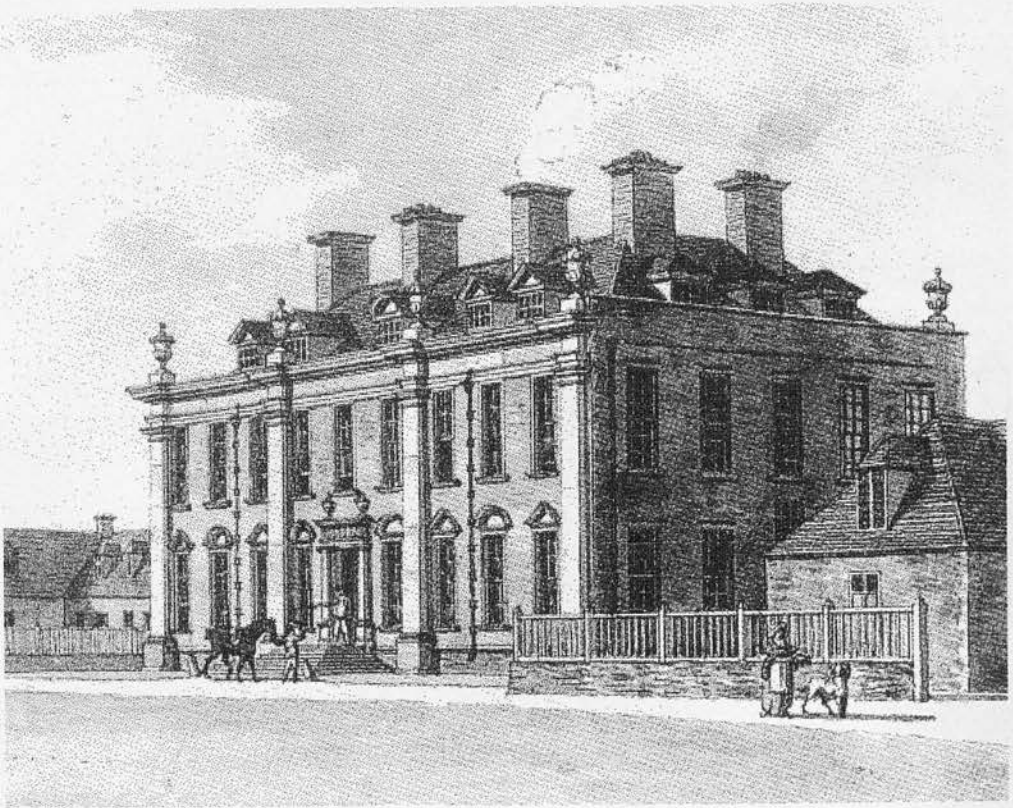


Plate 45 ii Castle Durrow, Co. Laois



Plate 46 Marsh's Library, original window

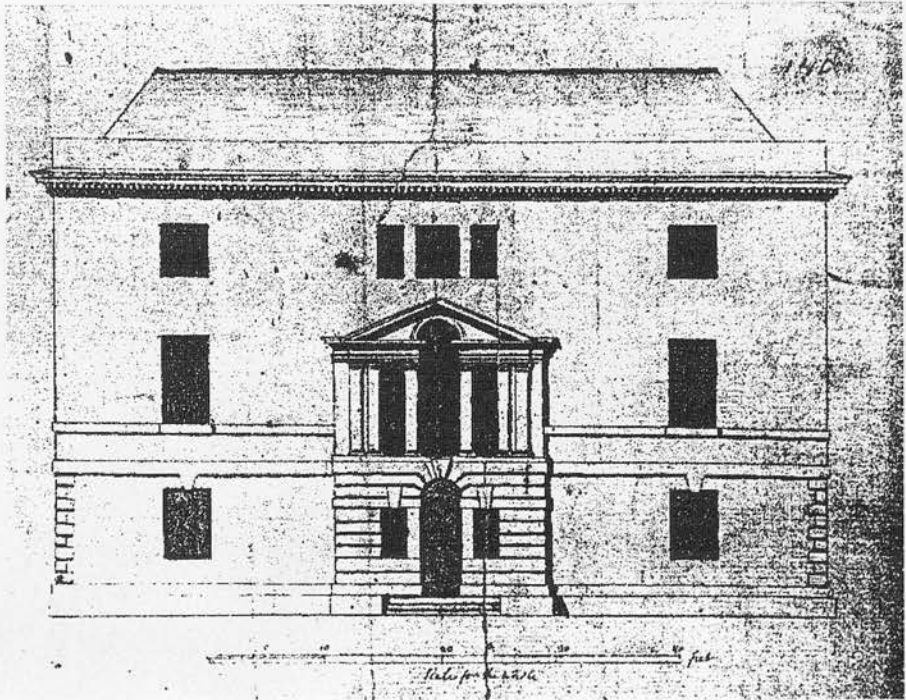


Plate 47 Drumcondra House, Co. Dublin (unexecuted design)

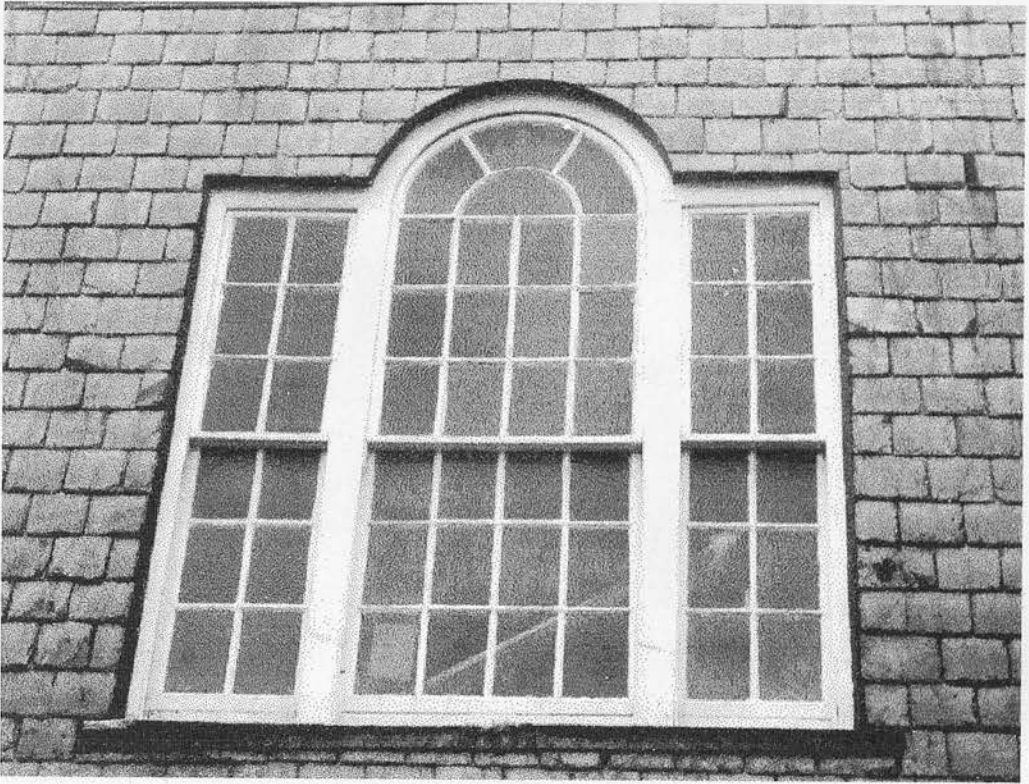


Plate 48 Kinsale Co. Cork, courthouse



Plate 49 Trinity College Library, original entrance



Plate 52 i Ballyhaise, Co. Cavan



Plate 52 ii Ballyhaise, rear elevation



Plate 53 Ledwithstown, Co. Longford

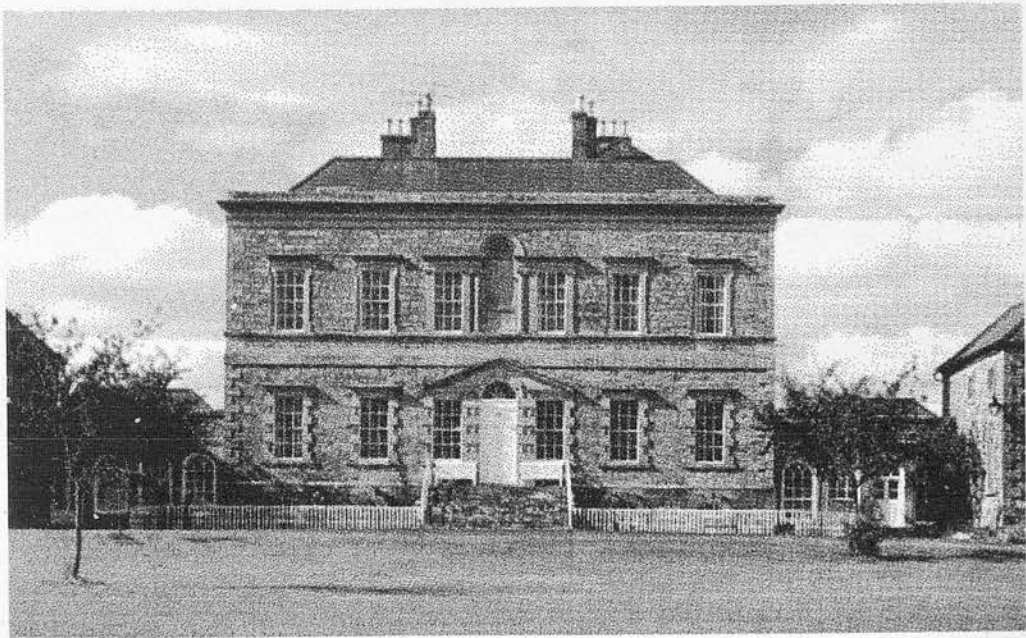


Plate 54 Bellinter, Co. Meath

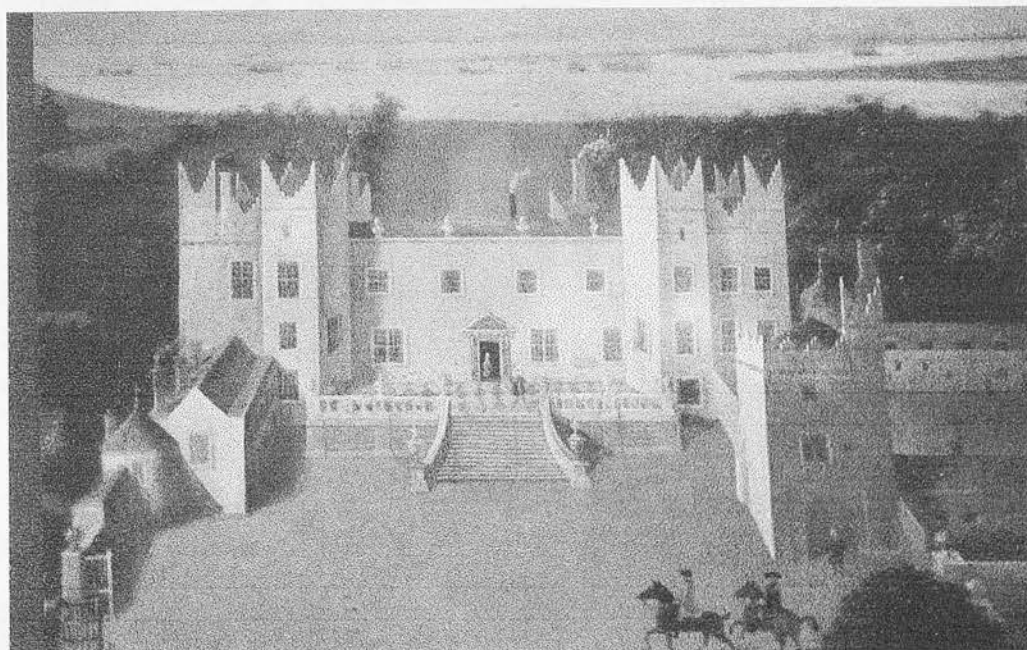


Plate 55 i Howth Castle, Co. Dublin (c.1740)



Plate 55 ii Howth Castle, stair window

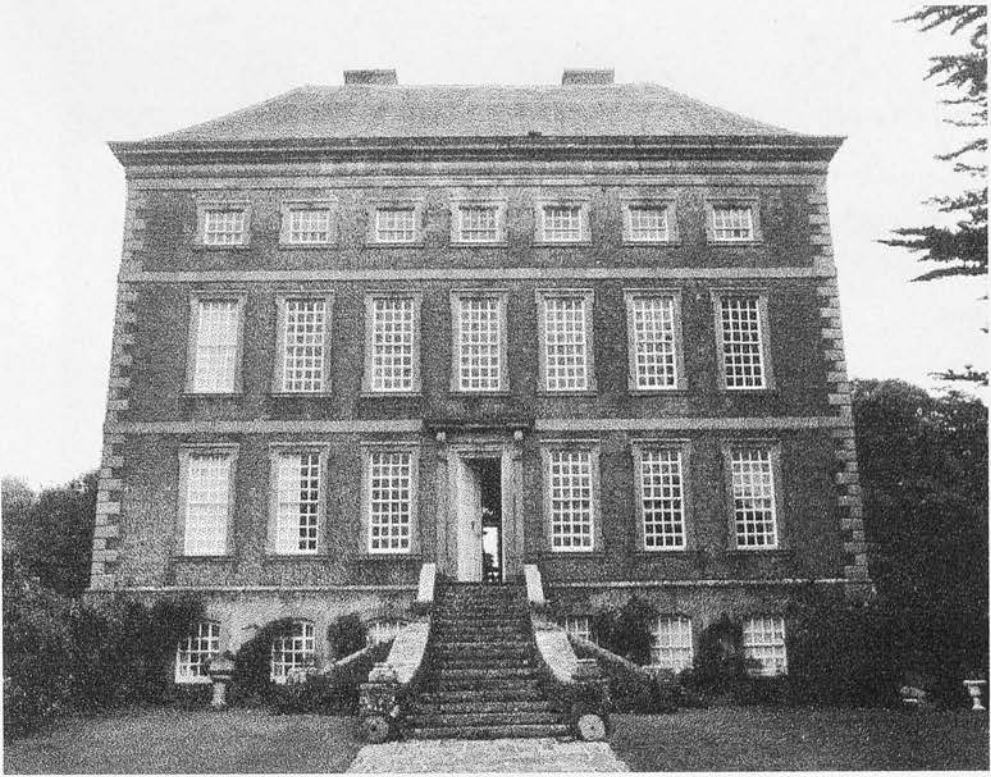


Plate 56 Mount Ievers Court, Co. Clare

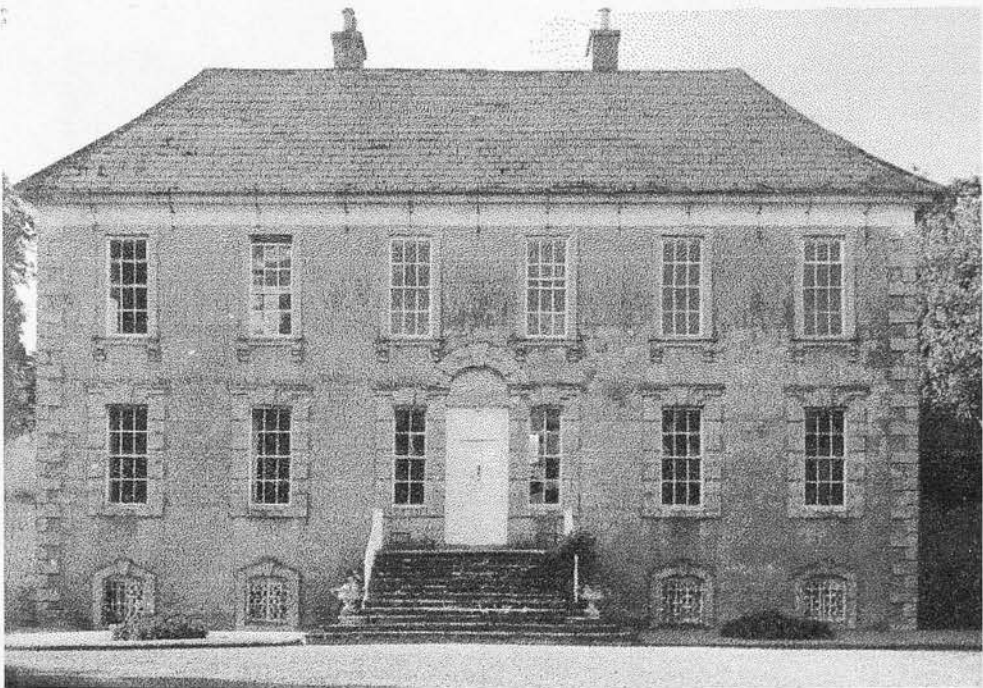


Plate 57 Bonnettstown Hall, Co. Kilkenny



Plate 58 No. 13 Henrietta Street, Dublin



Plate 59 Bishop's Palace Robing Room, Kilkenny

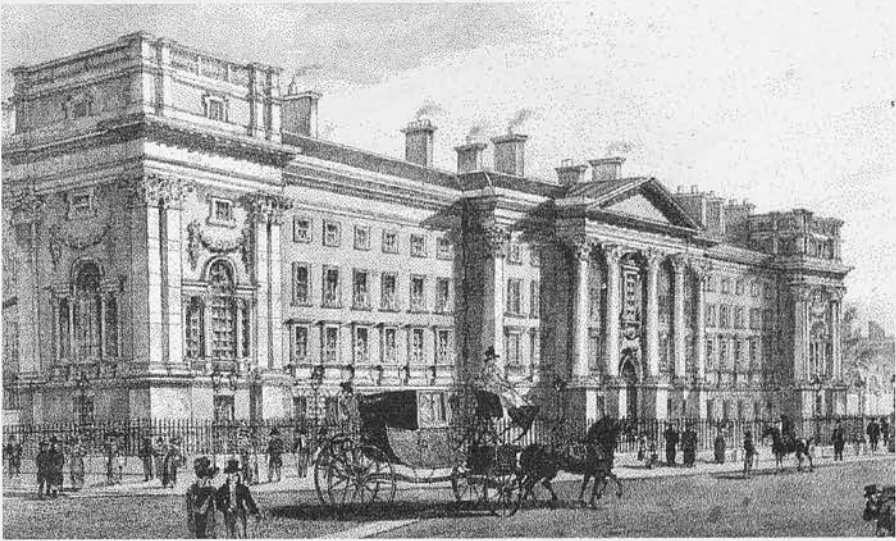


Plate 60 i Trinity College West Front

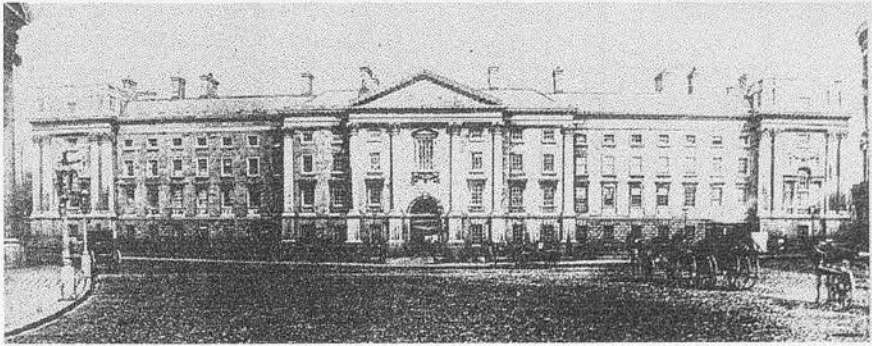


Plate 60 ii West Front (c. 1860)

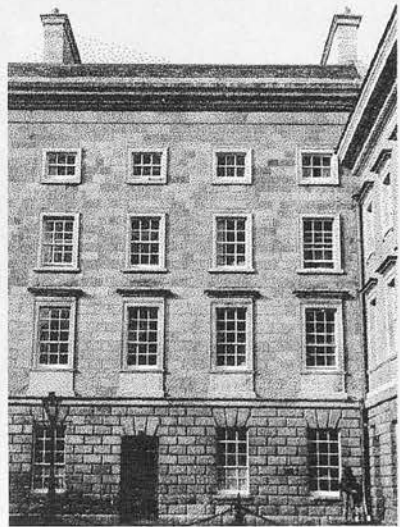


Plate 60 iii West Front, part of Front Square elevation

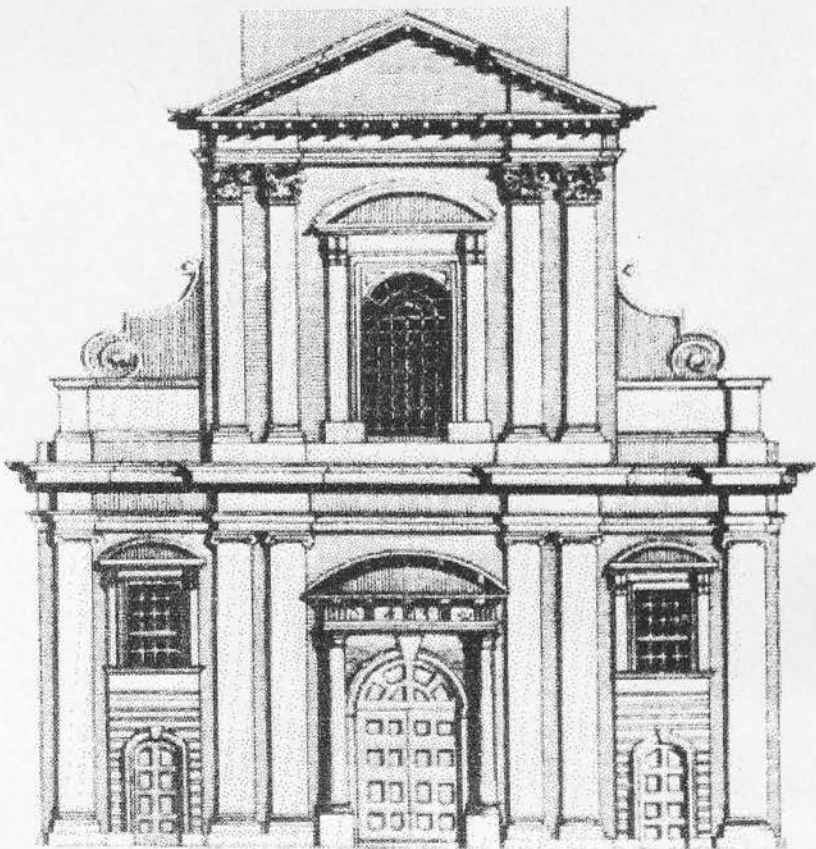


Plate 61 i St. Werburgh's Church, Dublin (1780)

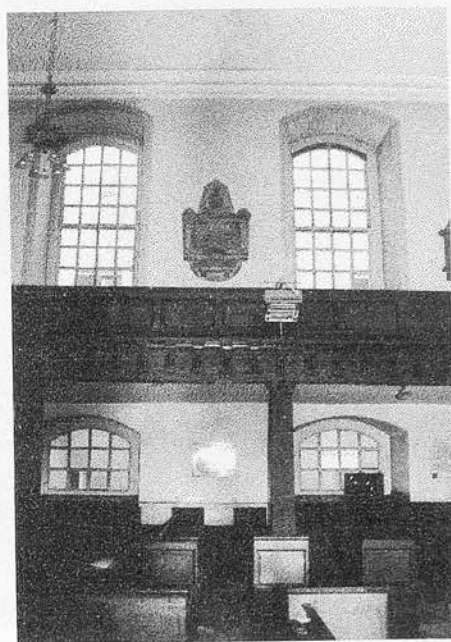


Plate 61 ii St. Werburgh's, nave windows

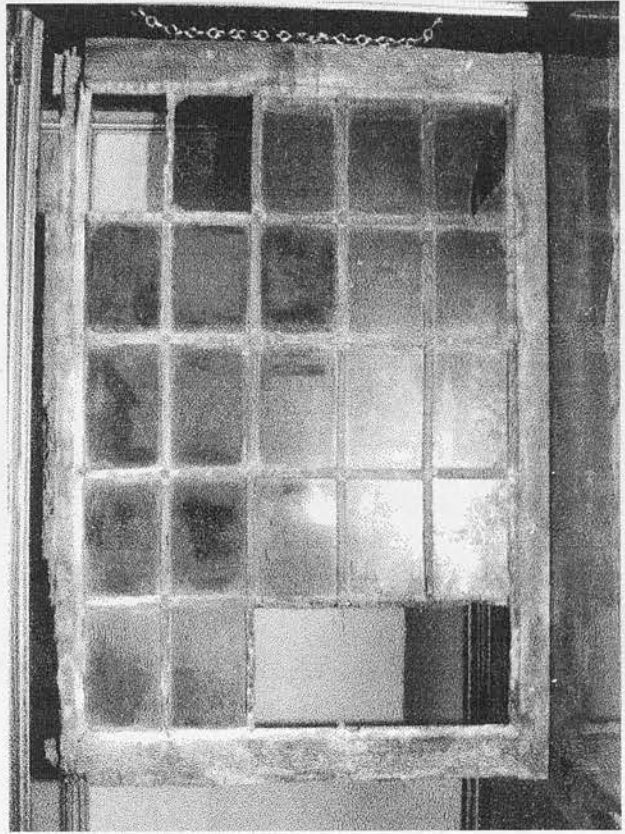


Plate 62 Rathfarnham Castle, Co. Dublin, uncovered light

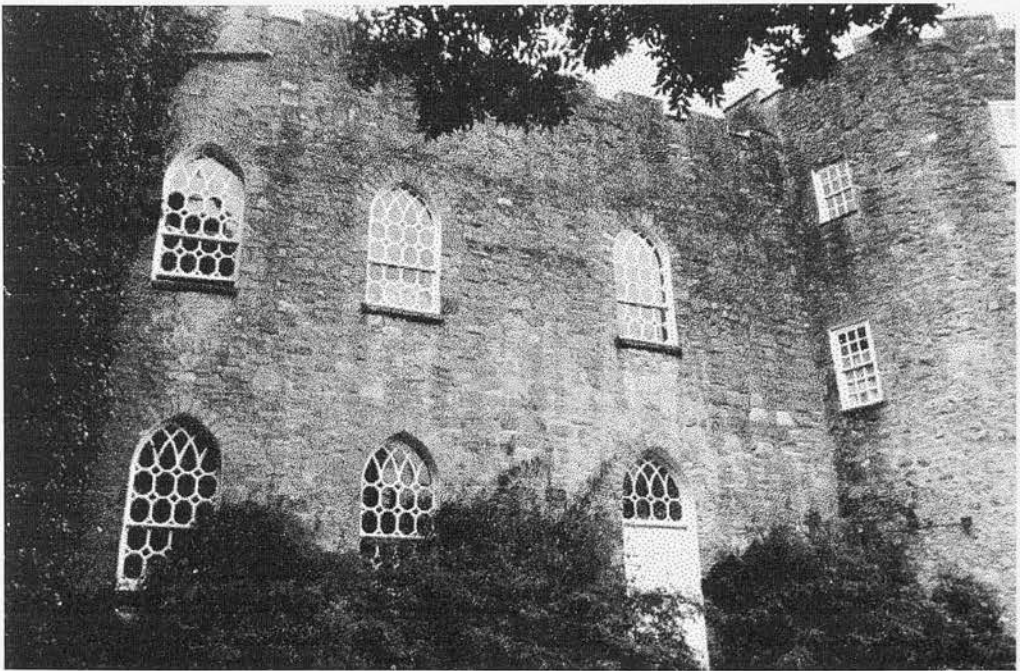


Plate 63 Leixlip Castle, Co. Kildare

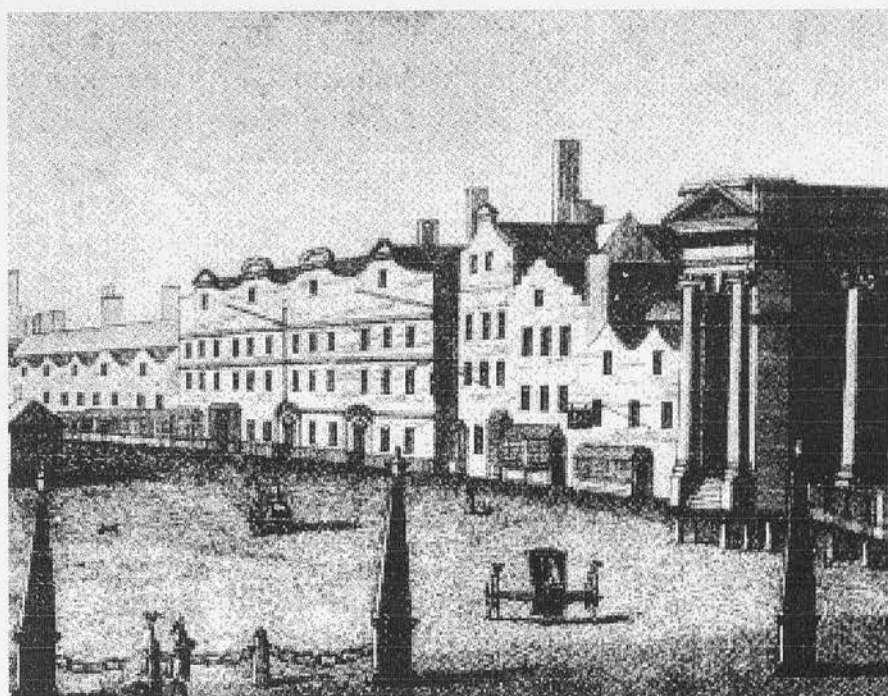


Plate 64 i Dame Street, Dublin (c.1753)

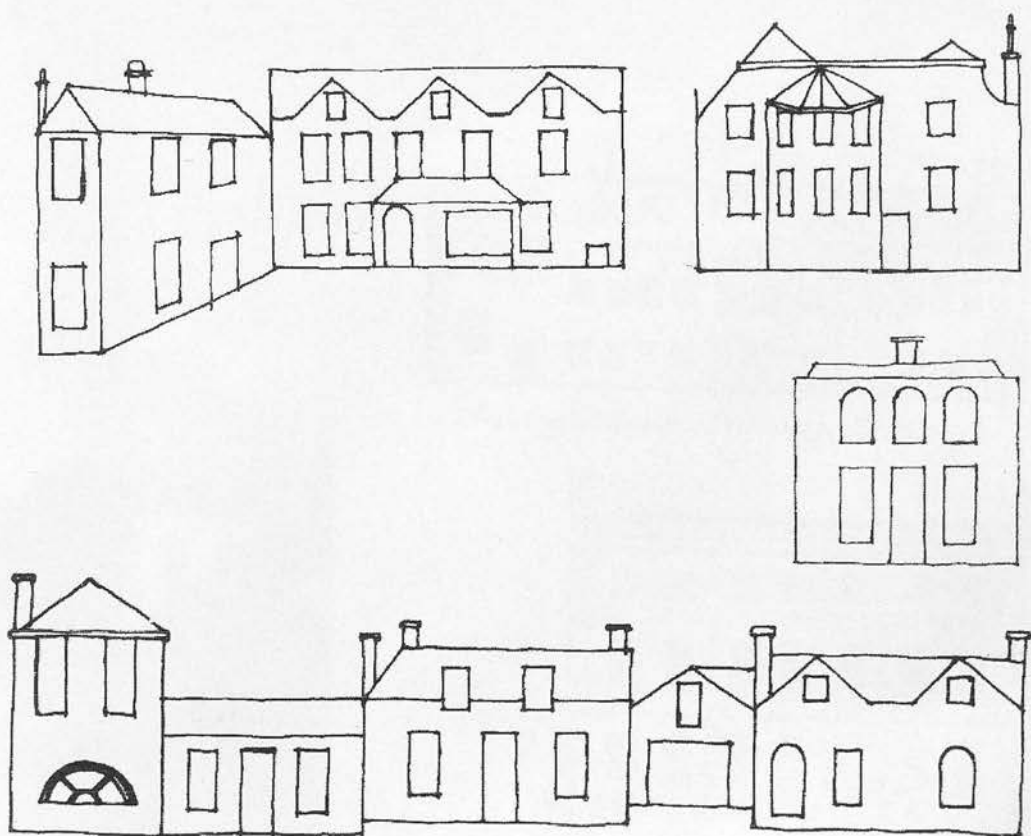


Plate 64 ii House elevations, Fitzwilliam Estate, Dublin (1762)

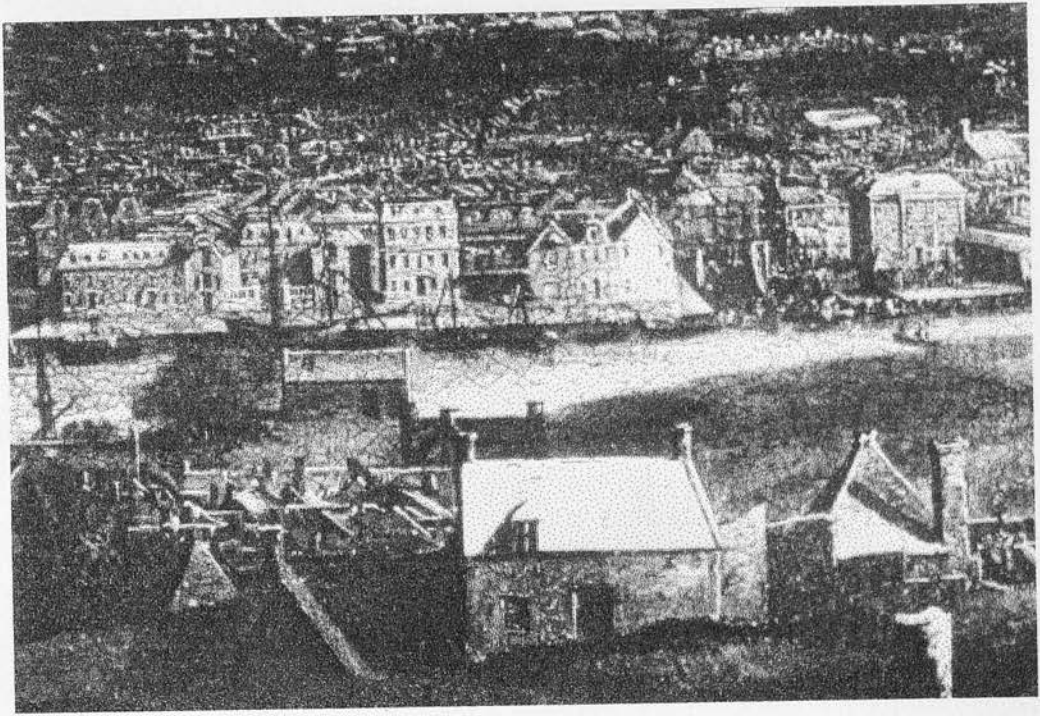
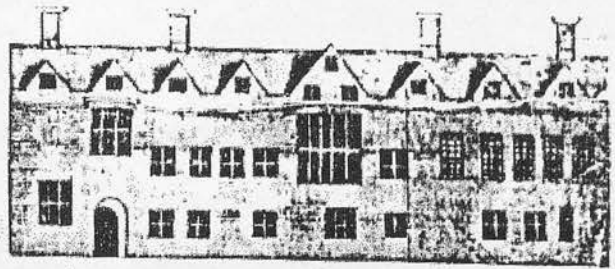
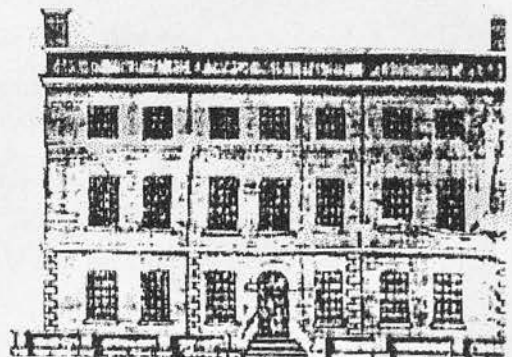


Plate 65 i Cork City (mid 18th-century)



The Front of the Lord Primate's Palace



The Front of Lord Chief Justice Singleton's

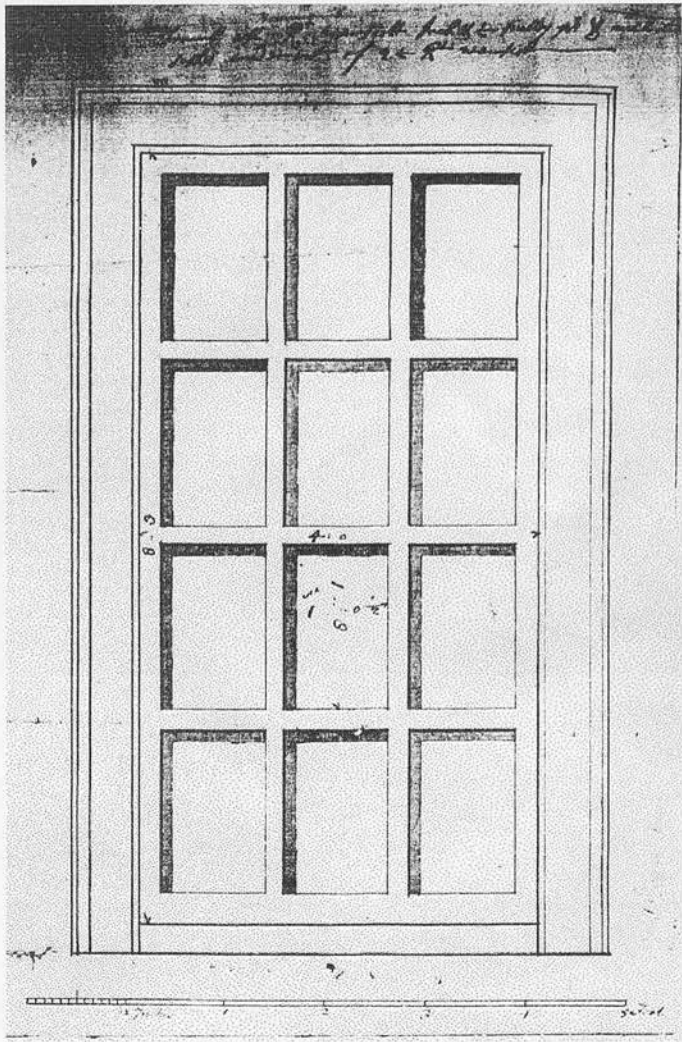


Plate 66 Drawing of a sash-window (c.1740)

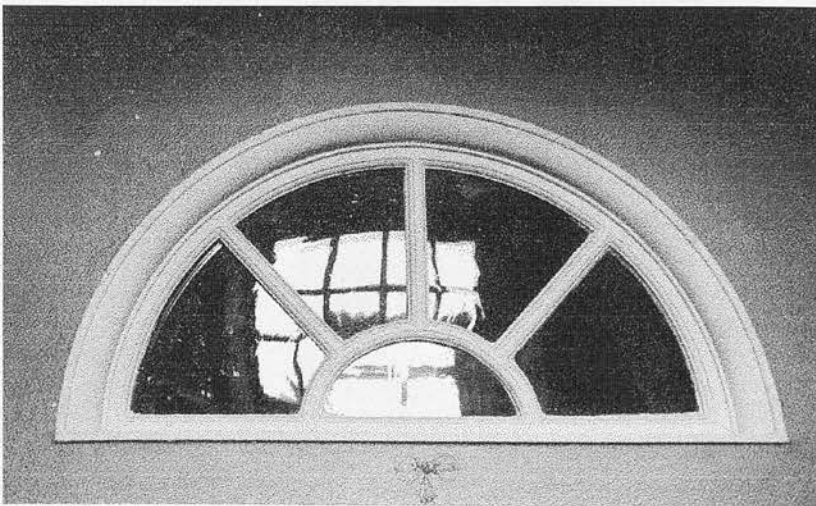


Plate 67 Leixlip Castle, internal light



Plate 68 Bellamont Forest, lantern



Plate 69 Ballyhaise, rear elevation, basement



Plate 70 i Nos. 2-3 Patrick Street, Kilkenny



Plate 70 ii Nos. 2-3 Patrick Street, basement windows

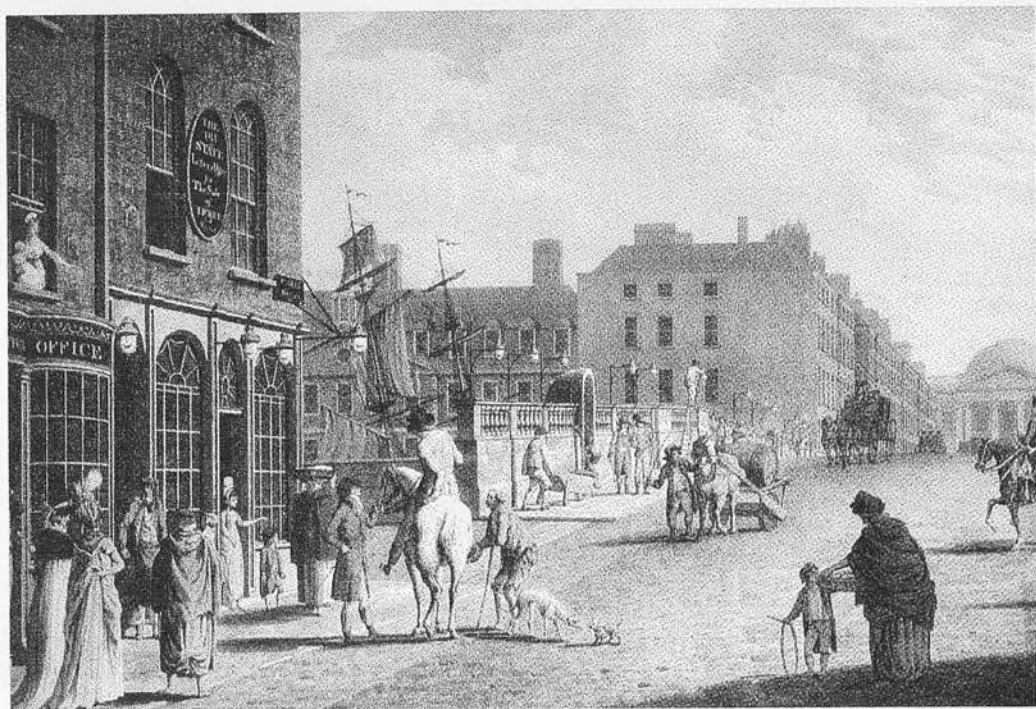


Plate 71 i Capel Street Bridge, Dublin (c. 1792)



Plate 71 ii View of Limerick (King's Island) (1819)



Plate 72 i Nenagh, Co. Tipperary

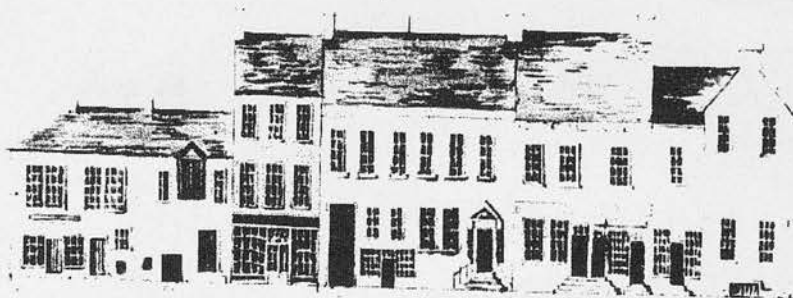


Plate 72 ii Houses at Coleraine, Co. Derry (1816)

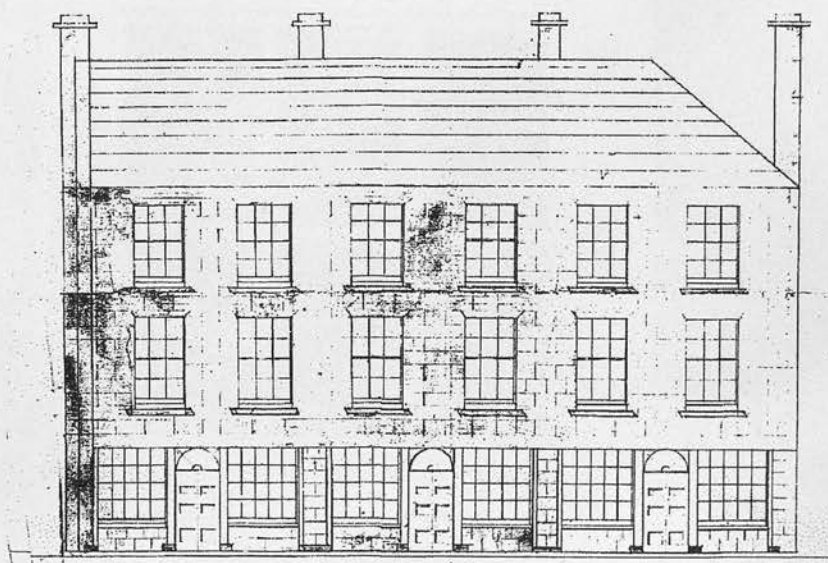


Plate 72 iii Residential shops planned for Dungarvan, Co. Waterford (1824)

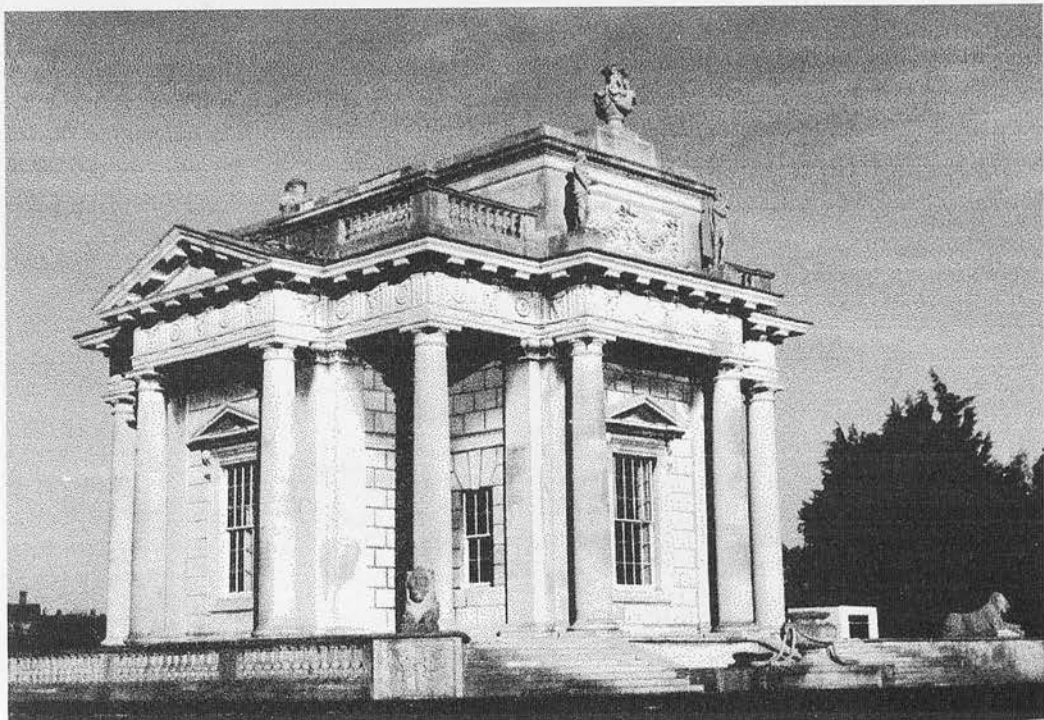


Plate 73 i Casino, Marino, Co. Dublin



Plate 73 ii Casino, original over-door light at doorway to basement



Plate 74 i Nos. 21-4 Upper Merrion Street, Dublin (24 in foreground)

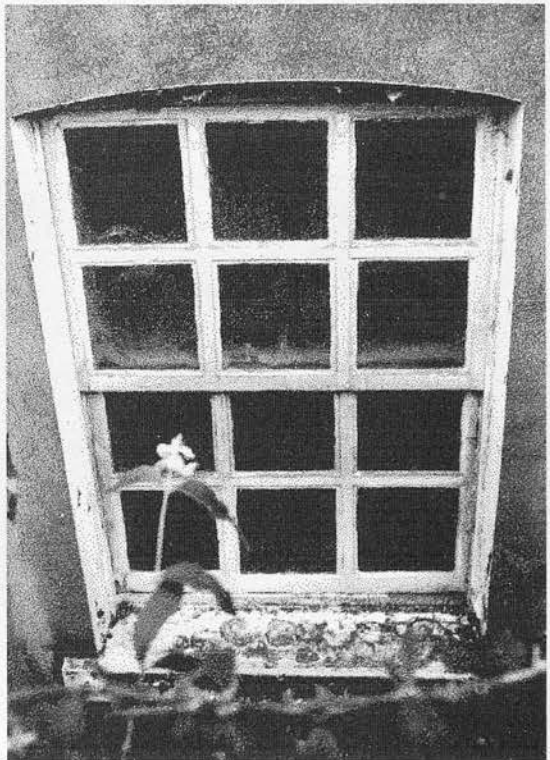


Plate 74 ii No. 23 Upper Merrion Street, basement window



Plate 75 Castletown Cox, Co. Kilkenny

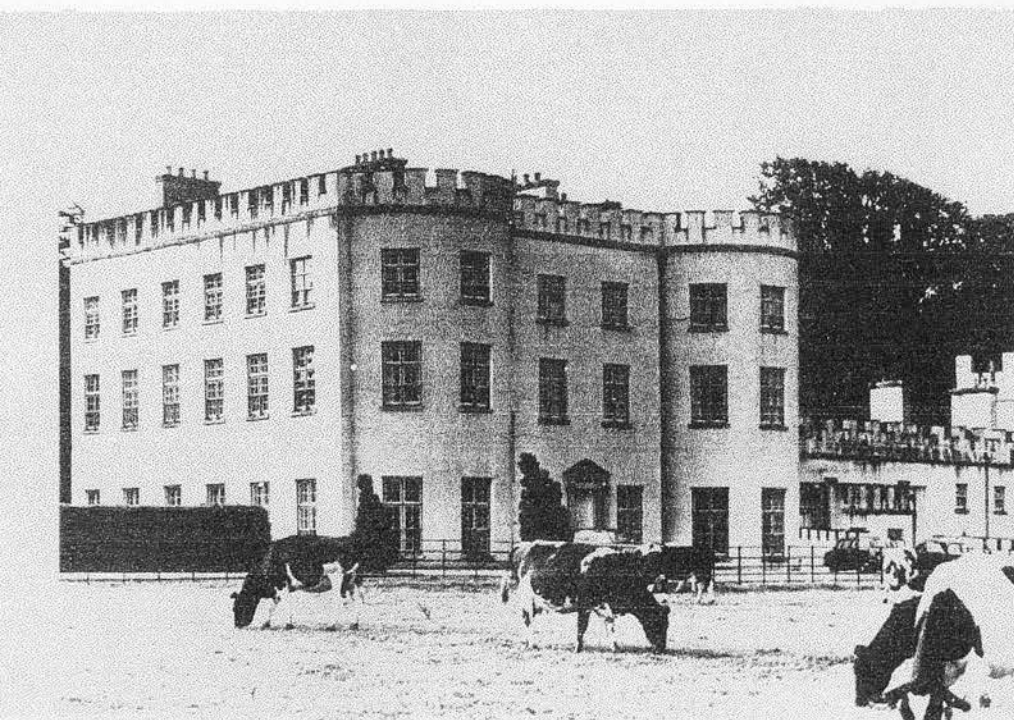


Plate 76 Glin Castle, Co. Limerick

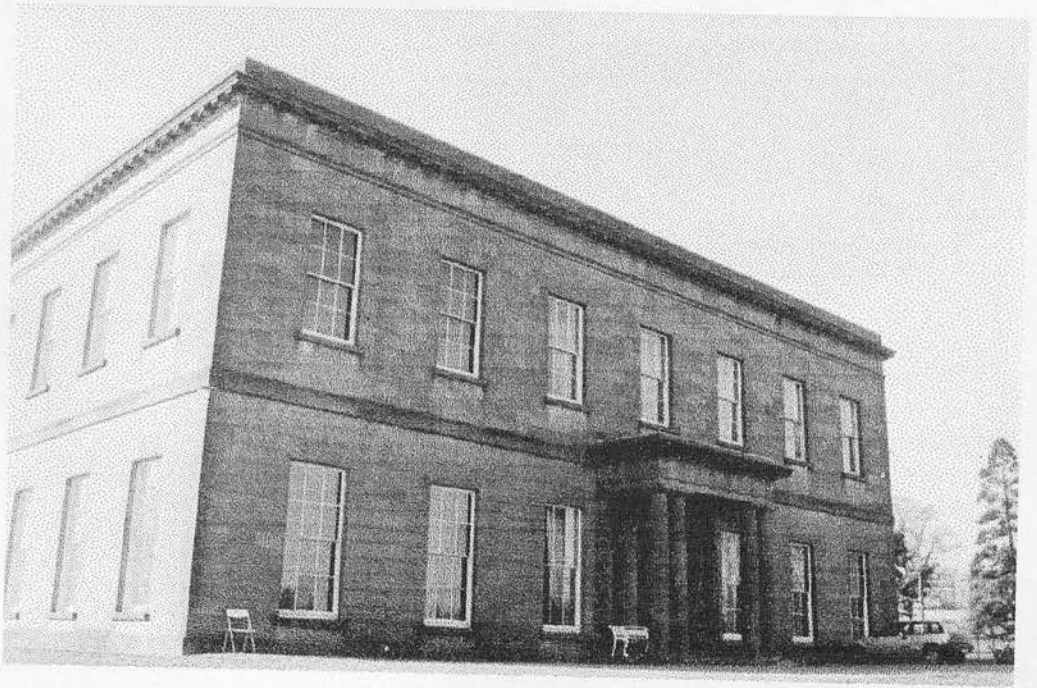


Plate 77 Townley Hall, Co. Louth



Plate 78 Gilson School, Co. Meath

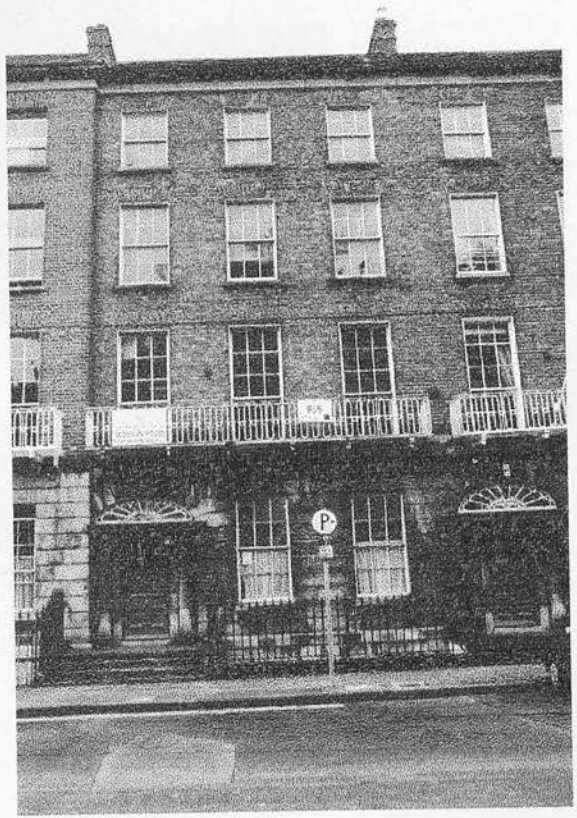


Plate 79 No. 2 Pery Square, Limerick

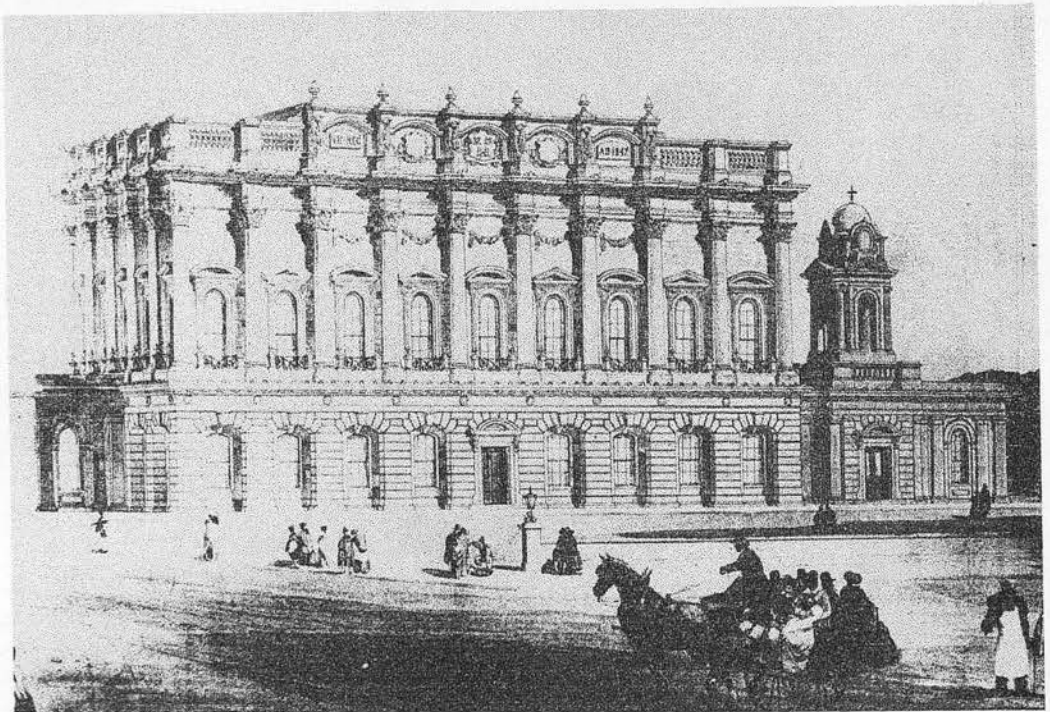


Plate 80 Heuston (Kingsbridge) Station, Dublin (1847)

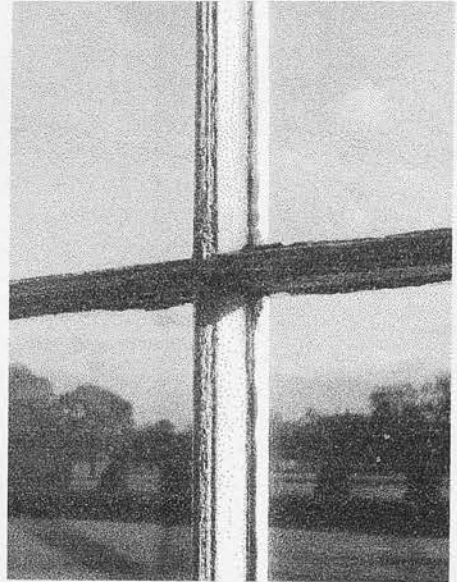
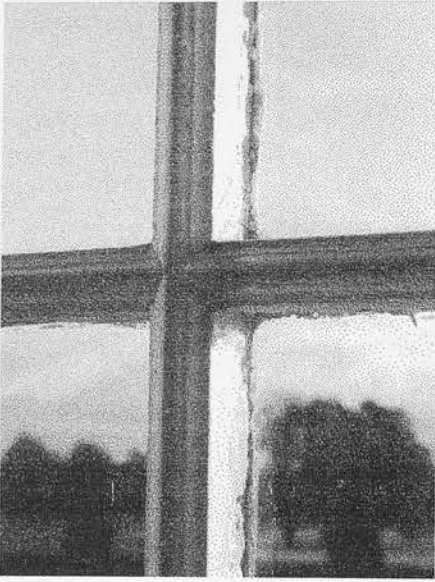


Plate 81 Castletown, glazing bars of 1760s and 1790s

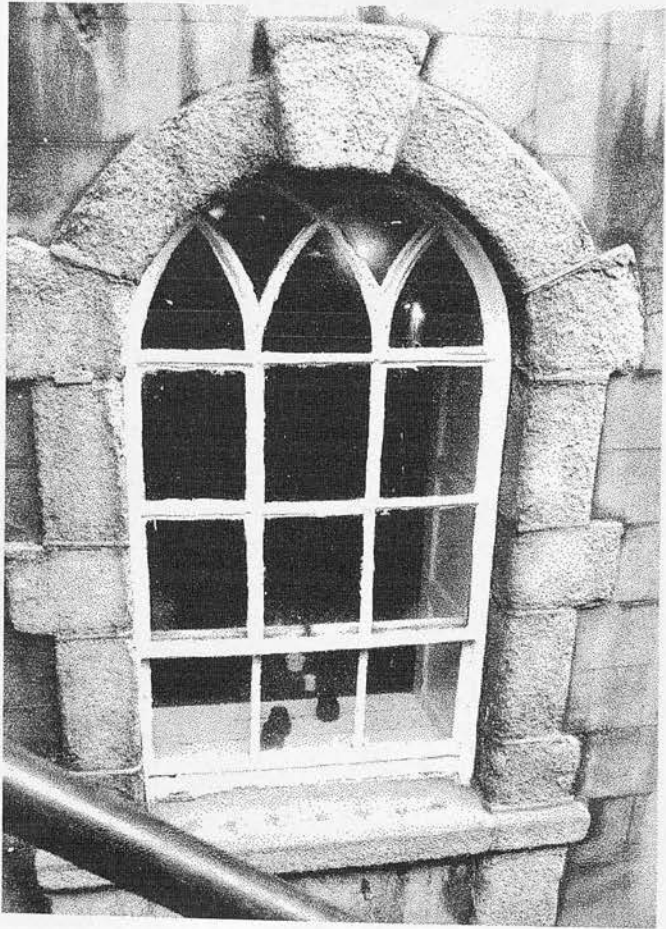


Plate 82 Powerscourt House, Dublin, basement window

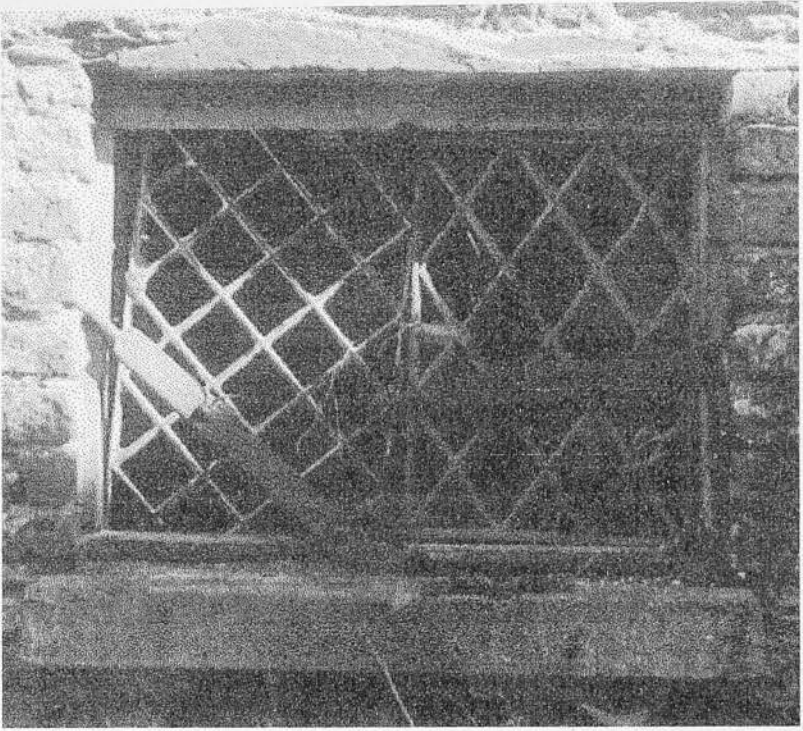


Plate 83 Carstown, square and long cast iron quarry lights

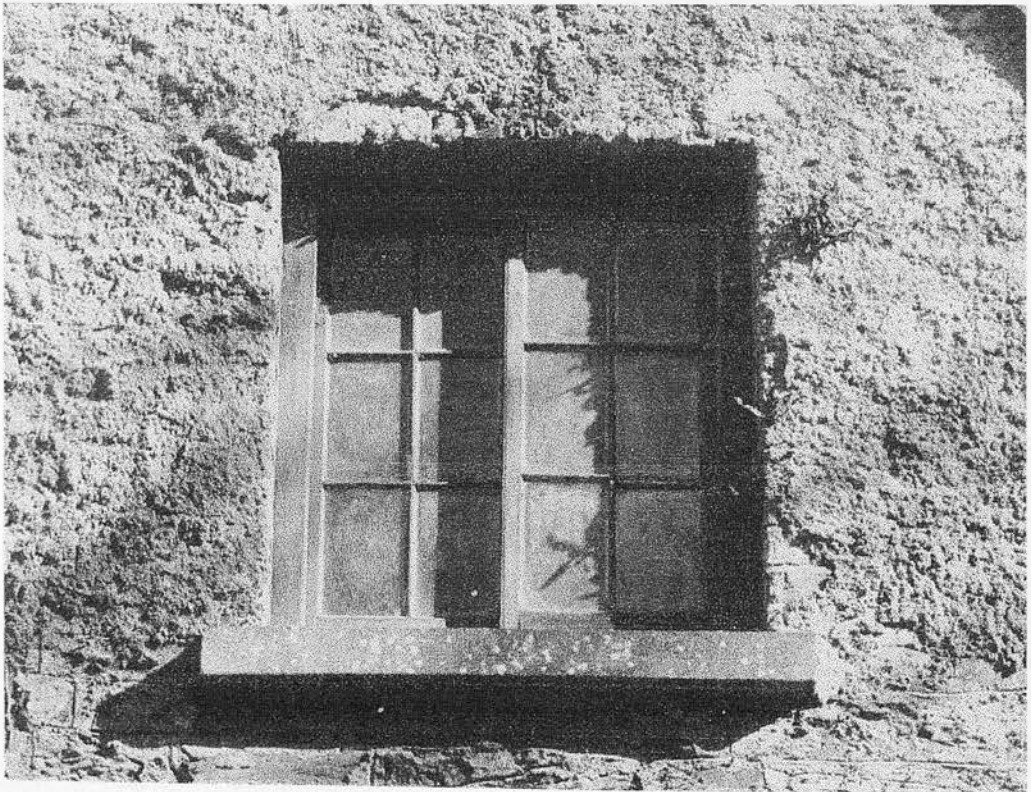


Plate 84 Carstown, horizontal sliding sash

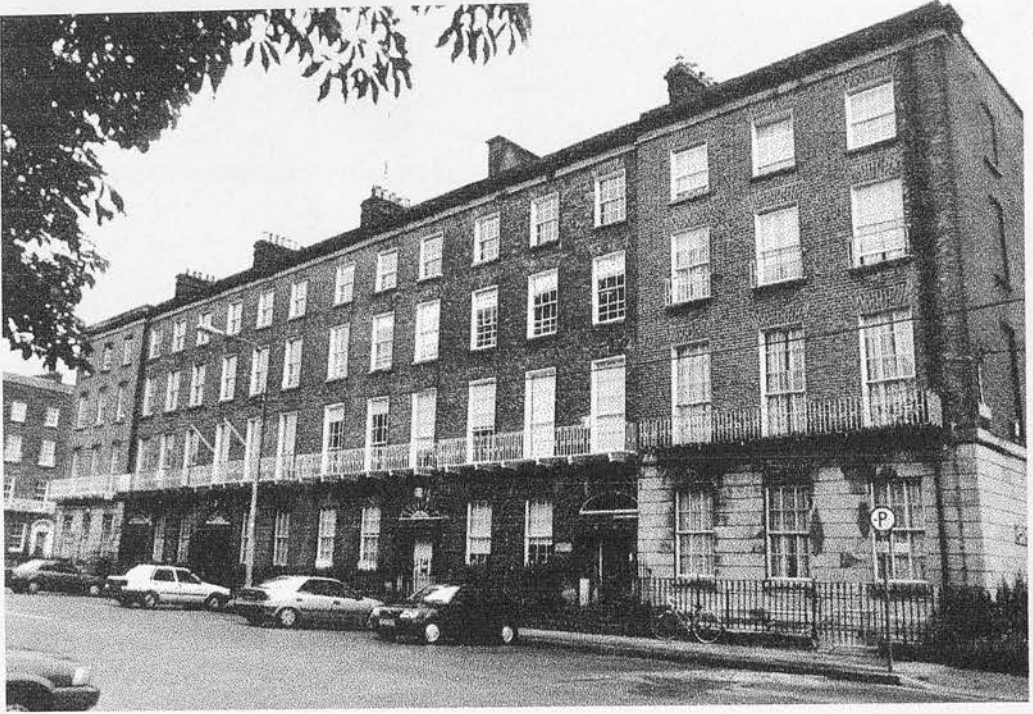


Plate 85 Nos. 1-6 Pery Square, Limerick

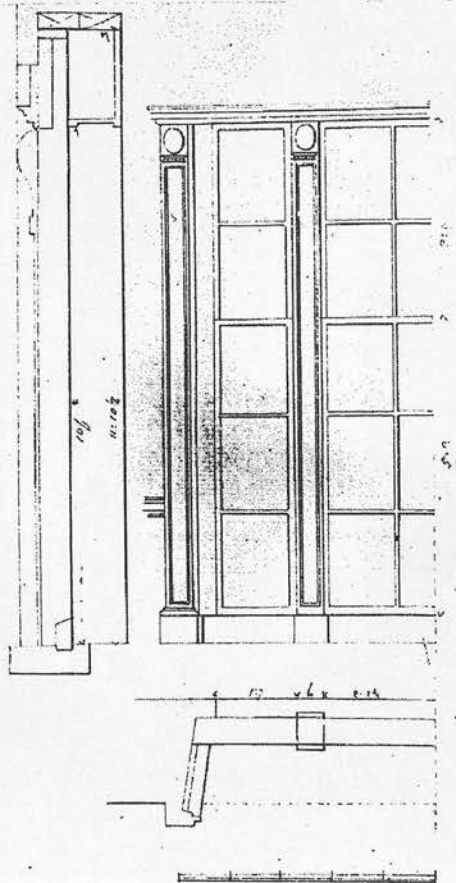


Plate 86 Emsworth, Co. Dublin, sash door

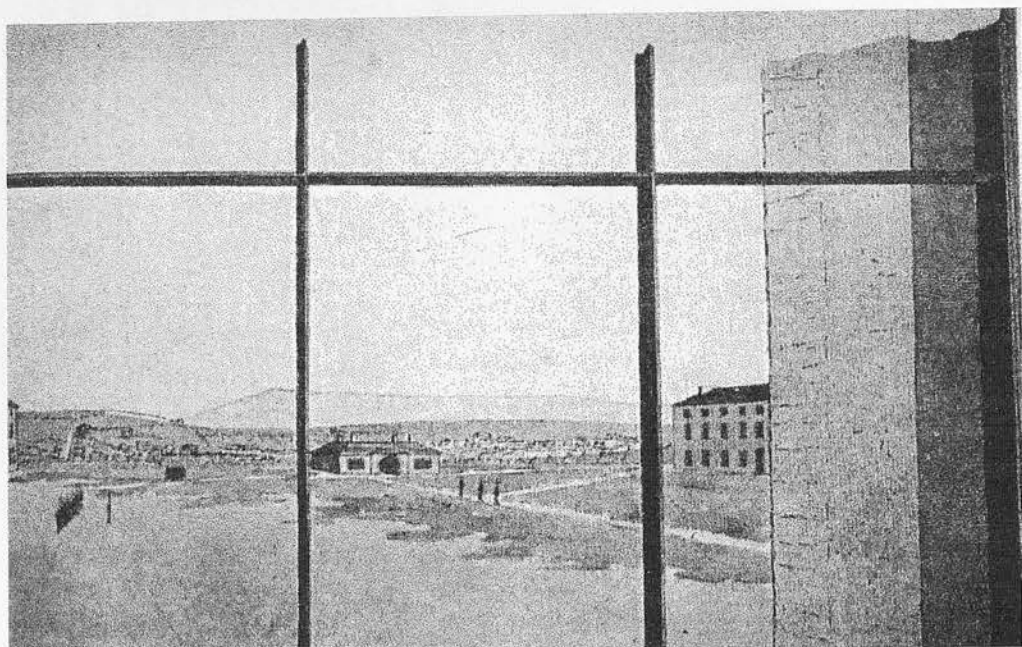


Plate 87 View from the Barracks, Fermoy, Co. Cork (1822)



Plate 88 Doorcase with single side-light, Dominic Street, Dublin

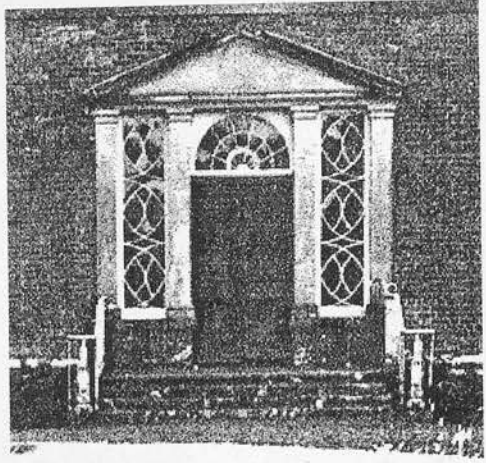


Plate 89 Ballynahown Court, Co. Westmeath, entrance

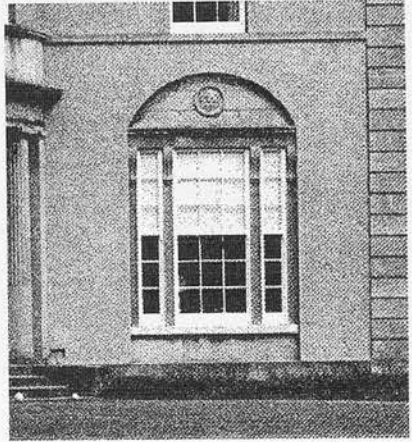


Plate 90 i Bearforest, Co. Cork, Wyatt window

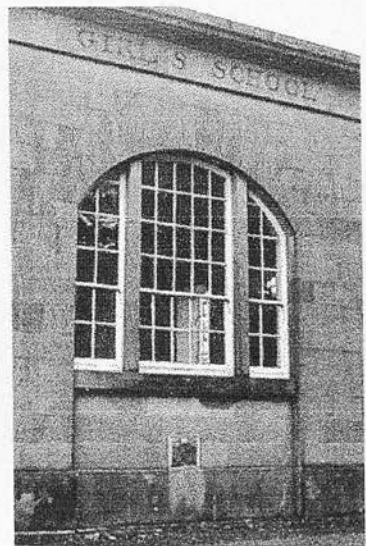


Plate 90 ii Gilson School, variation on a Wyatt window



Plate 91 Heuston Station, margin light

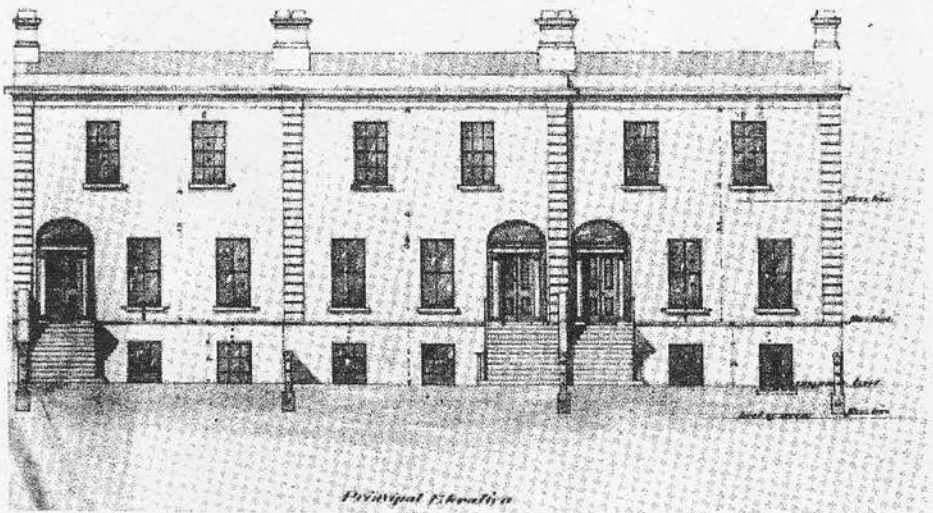


Plate 92 Houses at Rathgar Road, Dublin (1851)

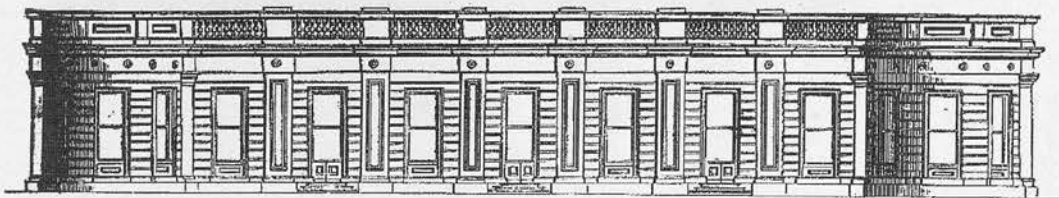


Plate 93 The Royal Irish Yacht Clubhouse, Kingstown (1851)

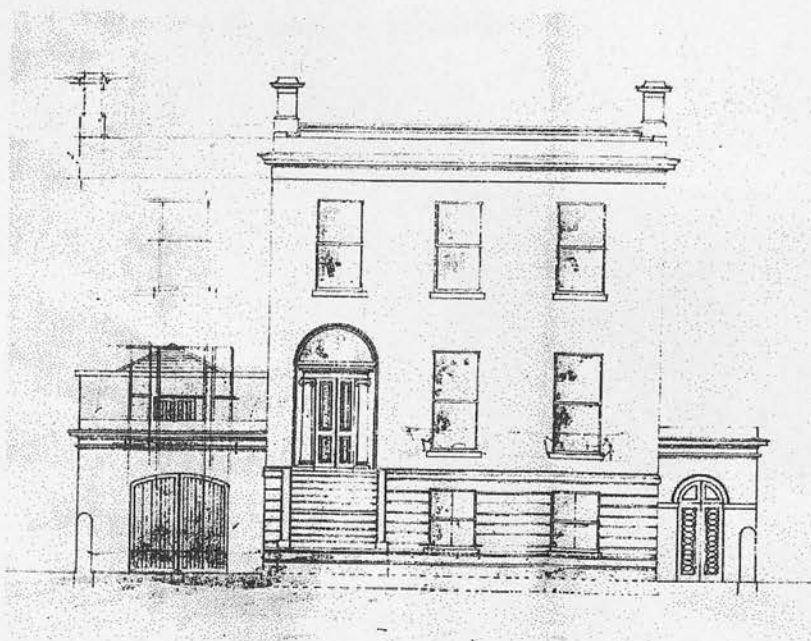


Plate 94 i No. 47 Terenure Road, Dublin (1859)



Plate 94 ii Leeson Park, Dublin

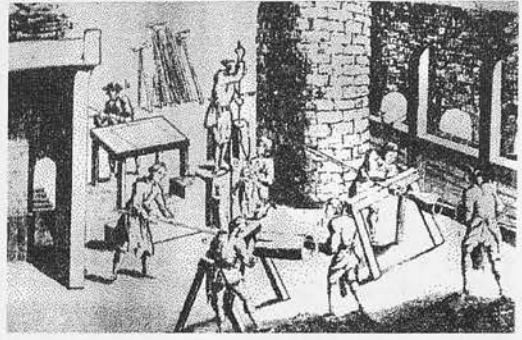
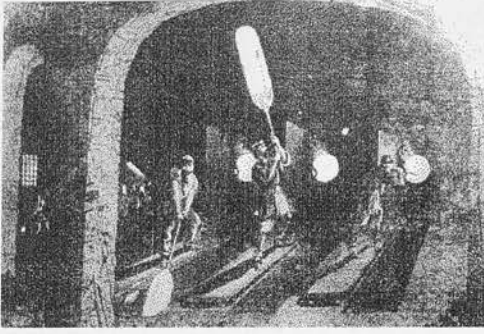


Plate 95 i-ii Blowing broad glass

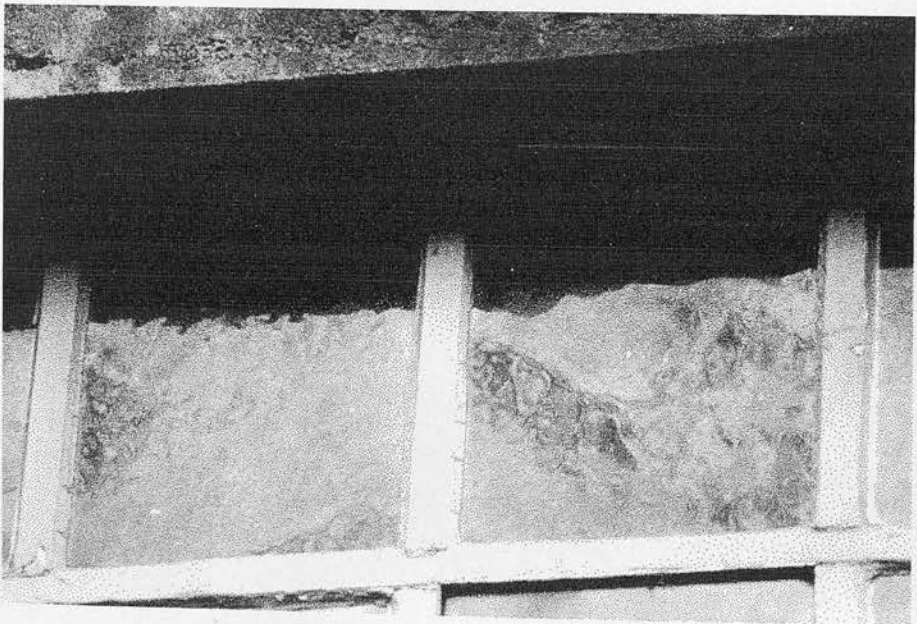


Plate 96 i-ii Broad glass: Marsh's Library and no. 13 Henrietta Street, Dublin

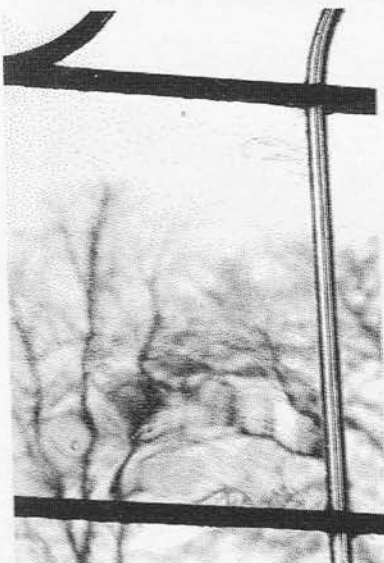


Plate 98 iii-vi Crown glass: Castletown, Beaulieu and Belcamp, Co. Dublin

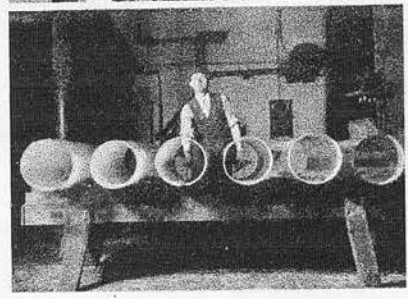
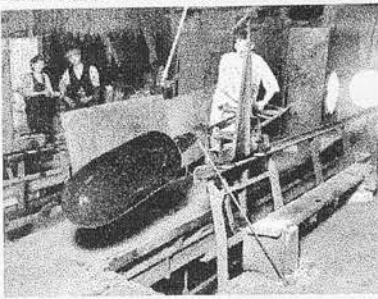
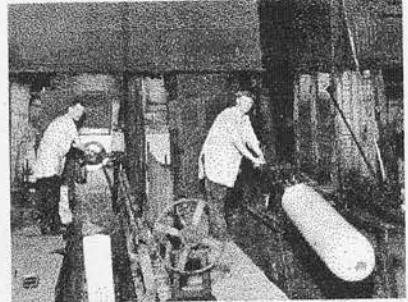
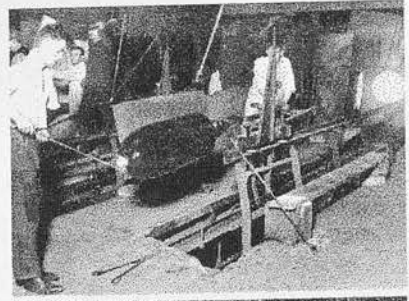


Plate 99 i-vi Cylinder sheet glass being made



Plate 99 vii Cylinder sheet glass: no. 86 St. Stephen's Green, Dublin

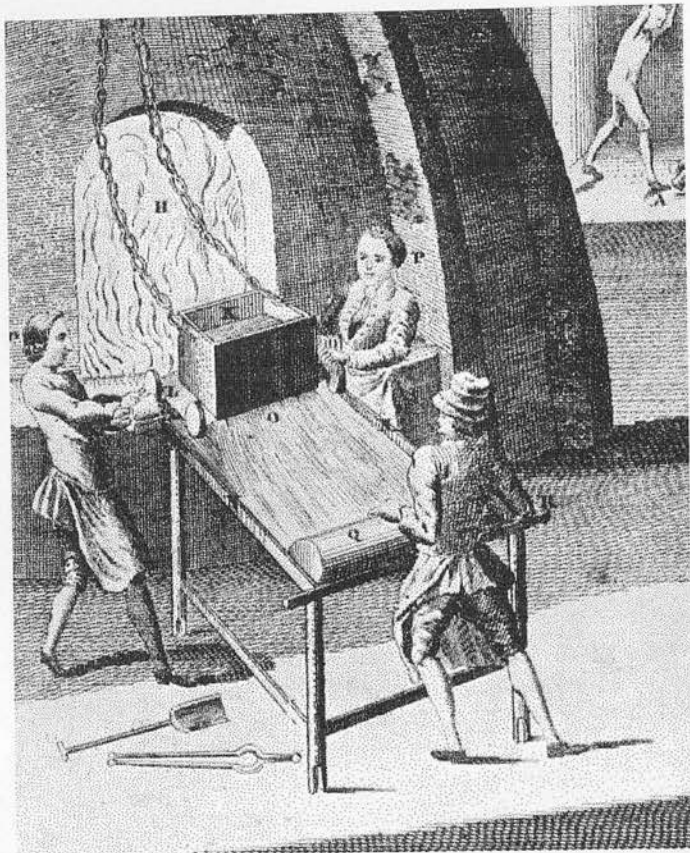


Plate 100 Polished plate glass being cast



Plate 101 Polished plate glass: North Great George's Street, Dublin

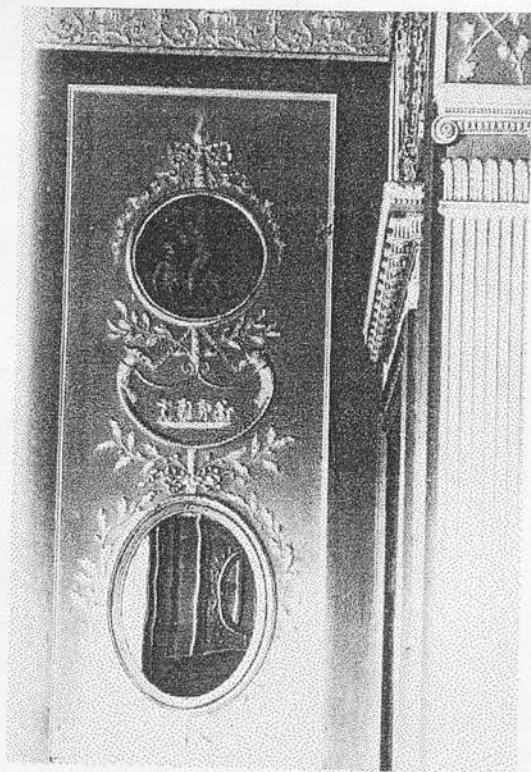


Plate 102 Mirror: Avondale, Co. Wicklow, Neo-Classical decoration

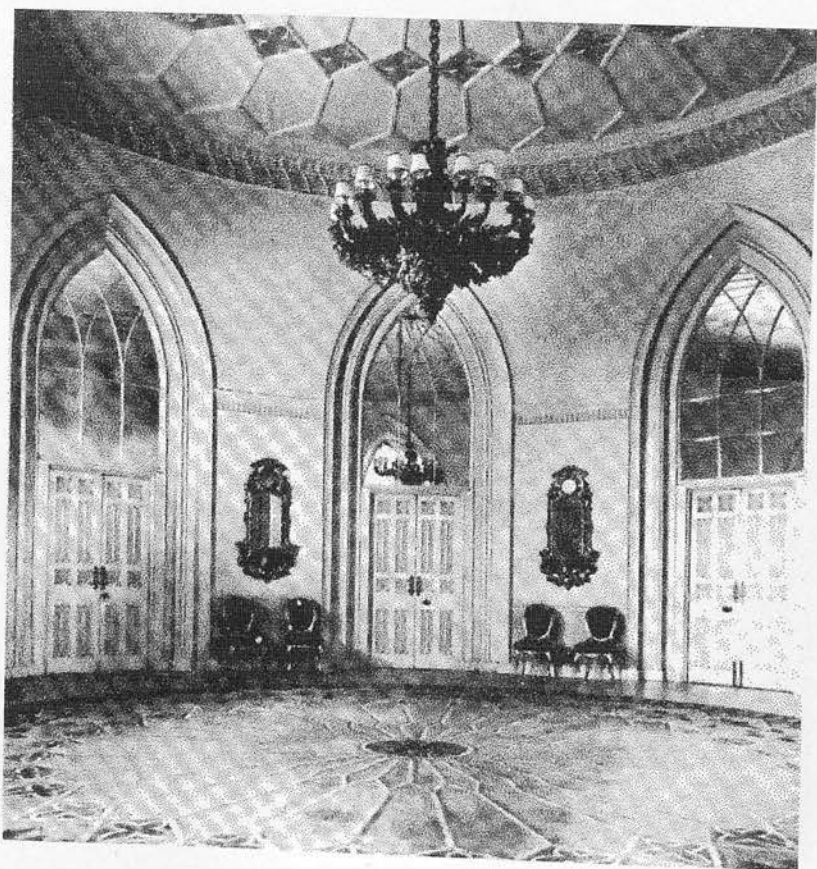


Plate 103 Mirror glazing: Bermingham Tower, Dublin Castle

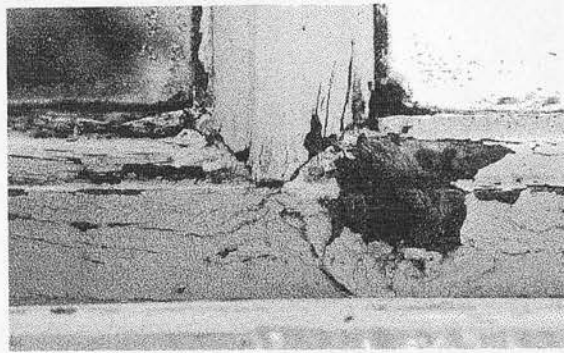
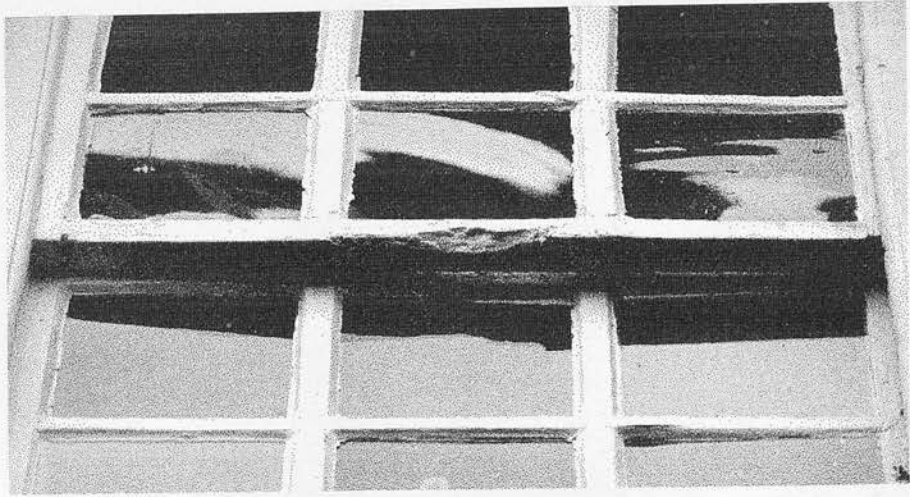


Plate 104 Bonnettstown, oak sashes with knots, in twist

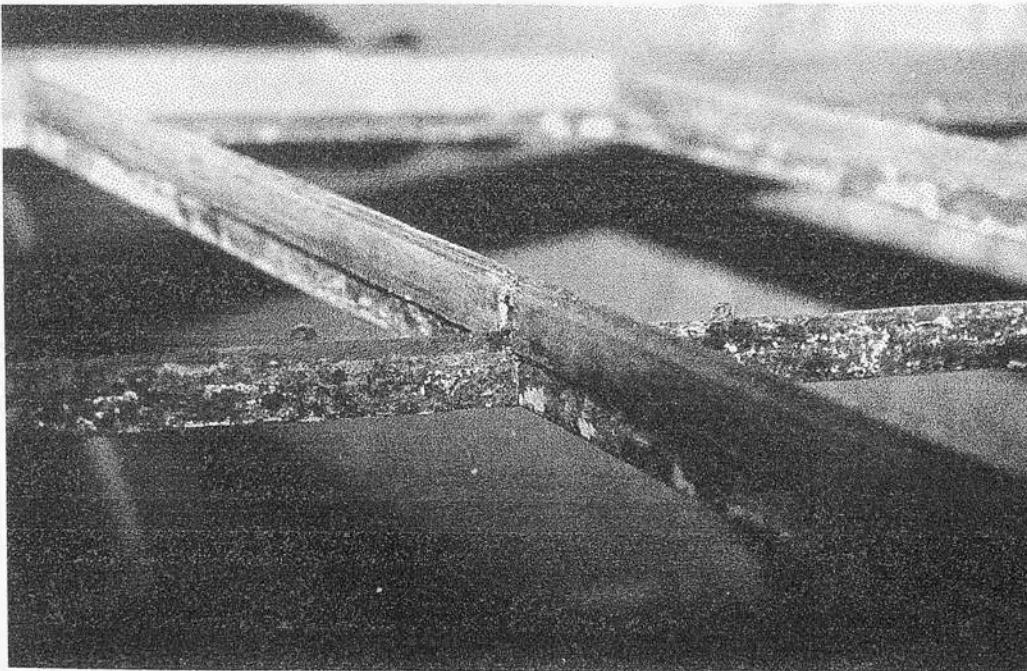


Plate 105 Metal and hardwood sash, Mornington House

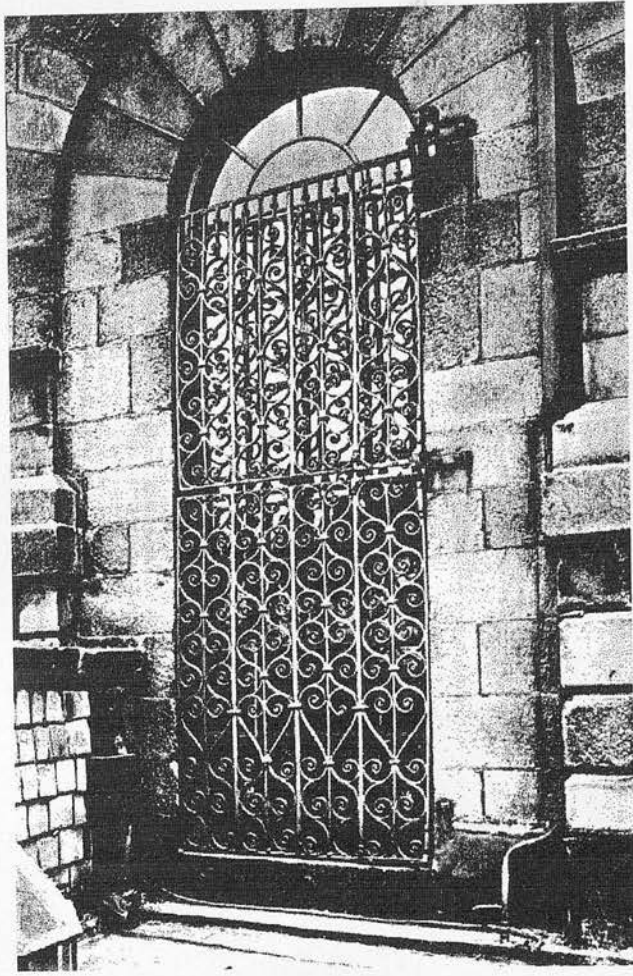


Plate 106 Provost's House, Trinity College, window grille

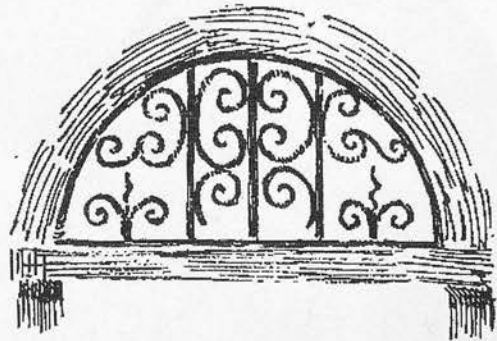


Plate 107 St. Stephen's Green and Henrietta Street, Dublin, fanlight grilles

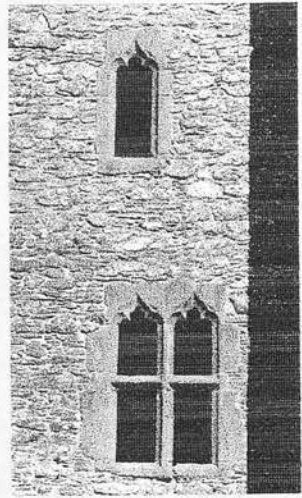


Plate 108 i Roodstown Castle, Co. Louth, trefoil-headed windows

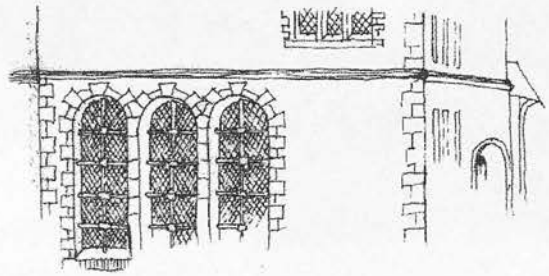


Plate 108 ii Dublin Castle, detail of unnamed building (c.1578)

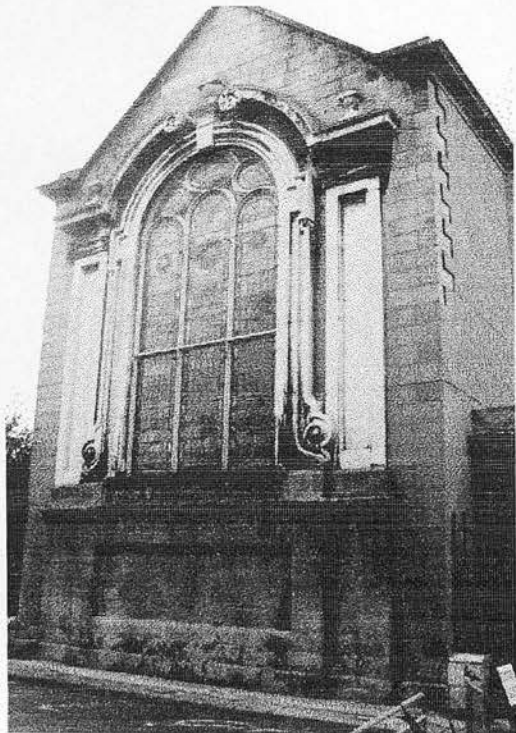


Plate 109 St. Mary's Church, Dublin, east window

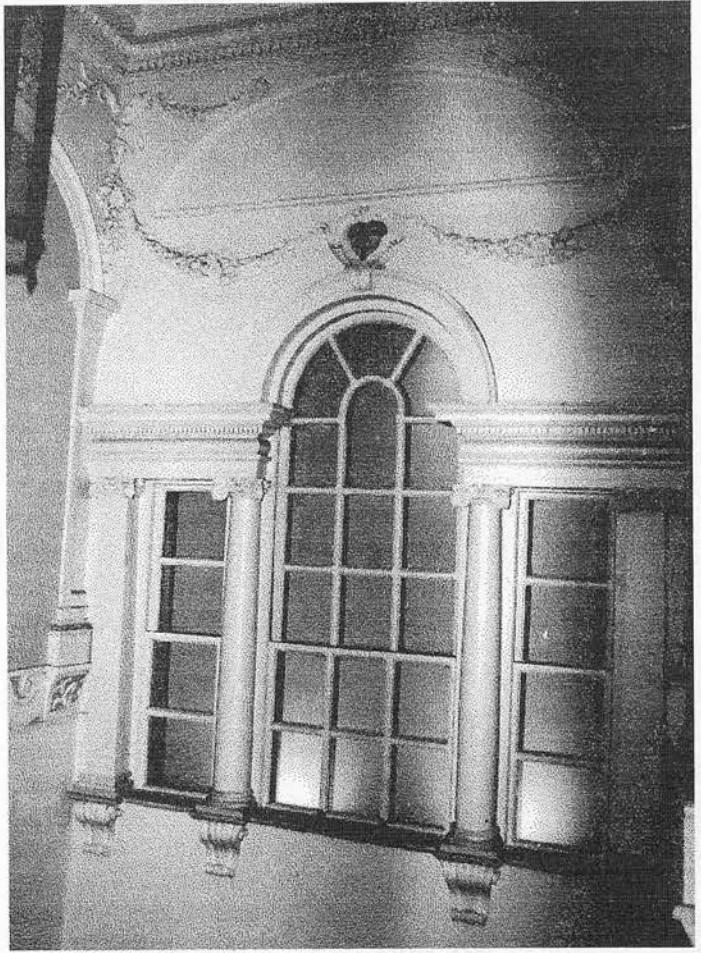


Plate 112 No. 85 St. Stephen's Green, stairwell windows (now blind/blocked)

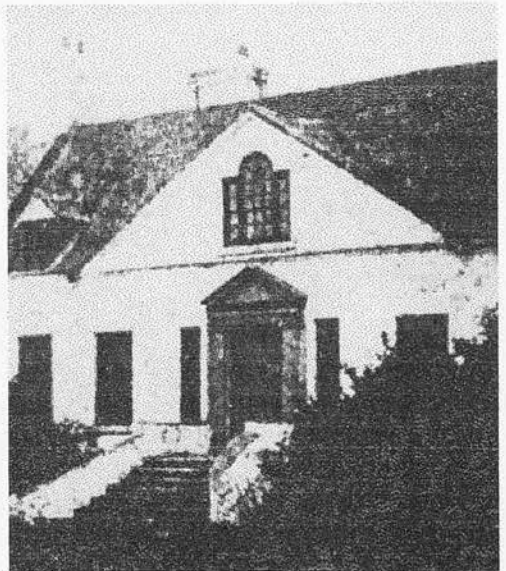


Plate 113 Tottenham Green, Co. Wexford with proto-Venetian window

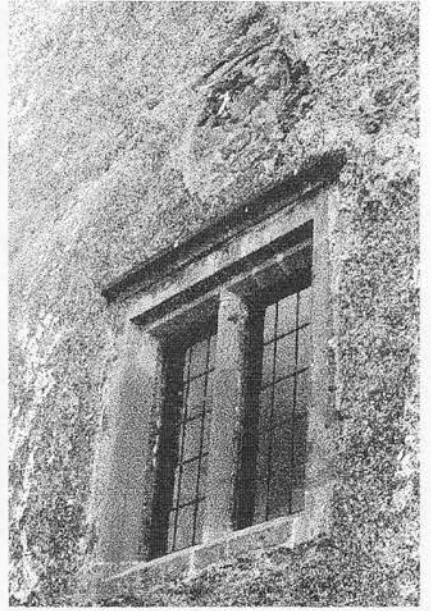


Plate 114 i Portumna Castle, blocked round light

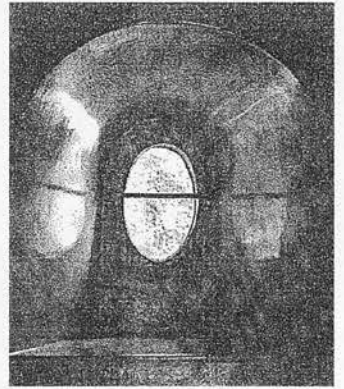


Plate 114 ii Finnebrogue, Co. Down

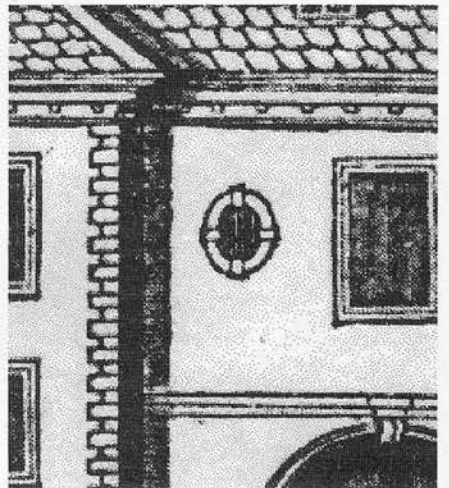


Plate 114 iii Derry Townhall, detail (1692)



Plate 115 i Red House, gable window

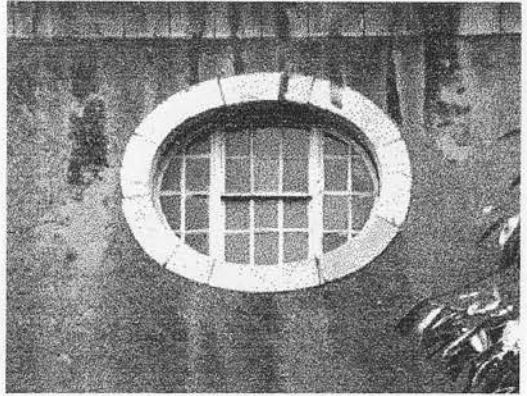


Plate 115 ii Presbyterian Church, Cork

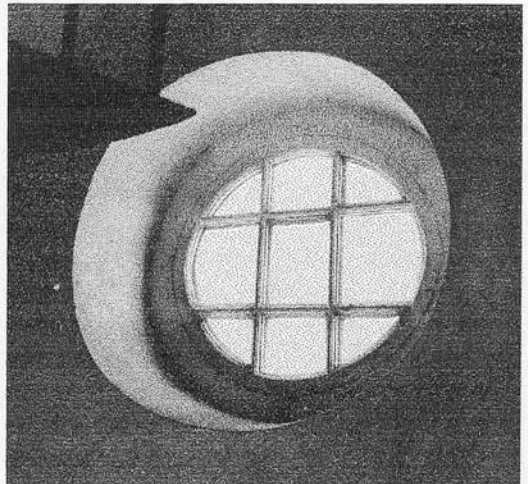


Plate 115 iii Skiddy's Almshouses, gable window (one of two)



Plate 116 i Castle Dobbs, Co. Antrim

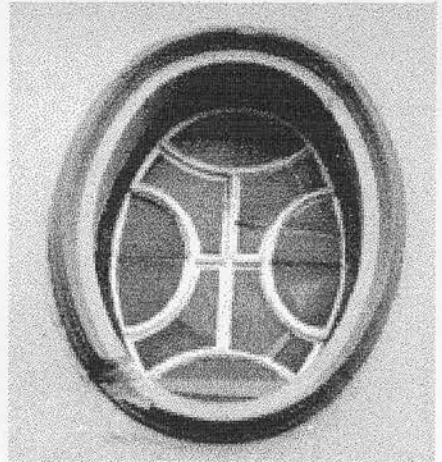


Plate 116 ii Mayoralty House, Cork (Mercy Hospital)

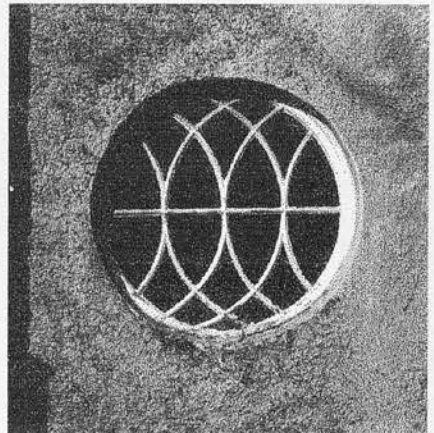


Plate 116 iii St. Martin's, Eyrecourt

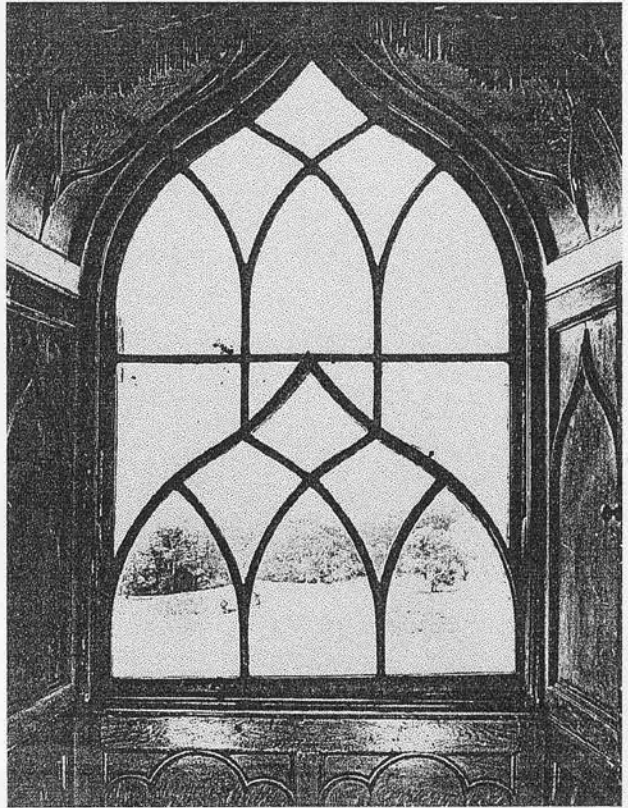


Plate 117 Castle Ward, Co. Down, Gothic front

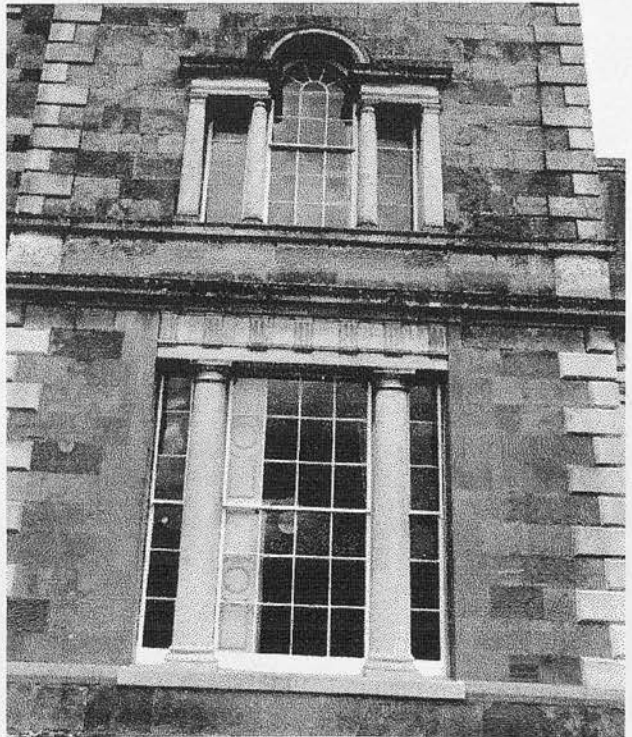


Plate 118 Carton, work of Castles (Venetian) and Morrison (Wyatt)



Plate 119 i Portumna Castle, detail of entrance



Plate 119 ii Kildrought House, Co. Kildare, garden front

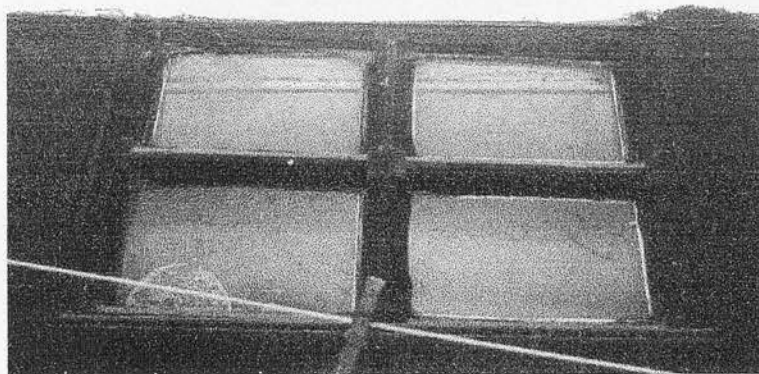


Plate 119 iii Deanery, Kilkenny, basement internal over-door light

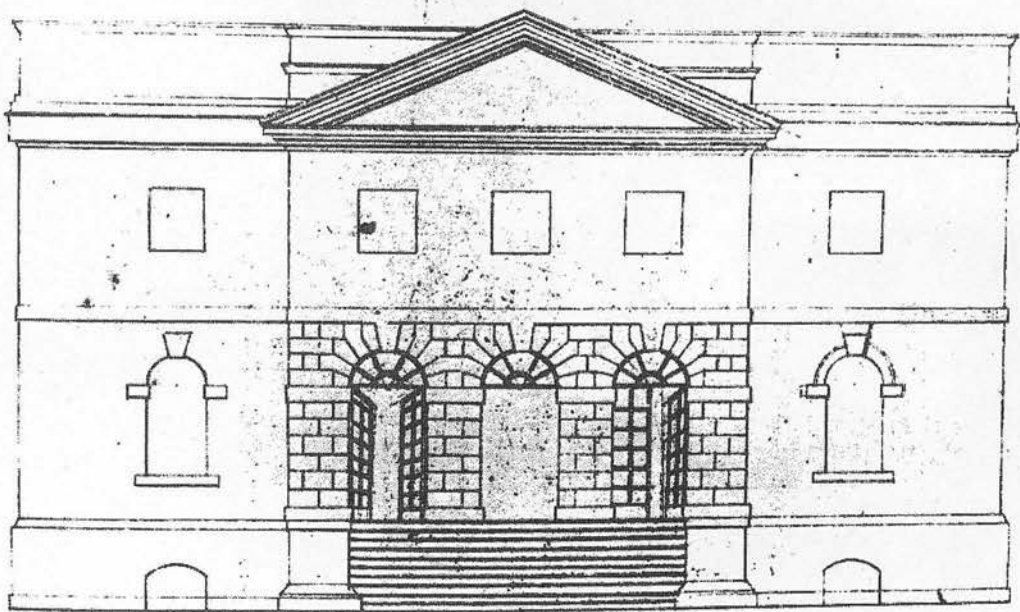


Plate 120 Bellamont Forest, unexecuted design (c.1730)



Plate 121 i Carlow Town



Plate 121 ii Cahir, Co. Tipperary



Plate 121 iii Blessington Street, Dublin, fanlit doorcases



Plate 121 iv North Road, Monaghan

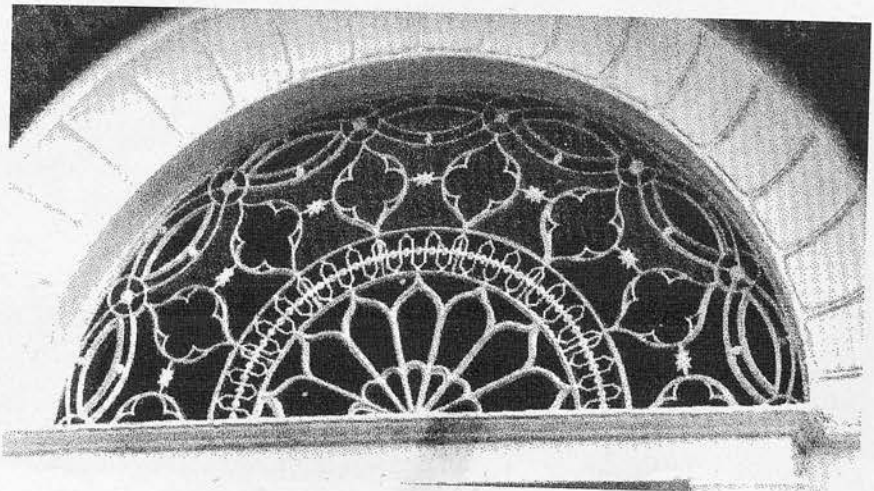


Plate 121 v No. 9 Hume Street, Dublin



Plate 122 No. 37 Merrion Square, Dublin



Plate 123 Kilshannig, Co. Cork, garden front



Plate 124 Newberry Hall, Co. Kildare

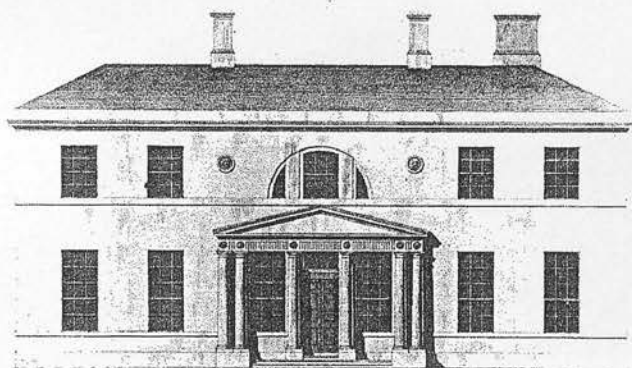


Plate 125 i Mount Kennedy, Co. Wicklow (c.1782)

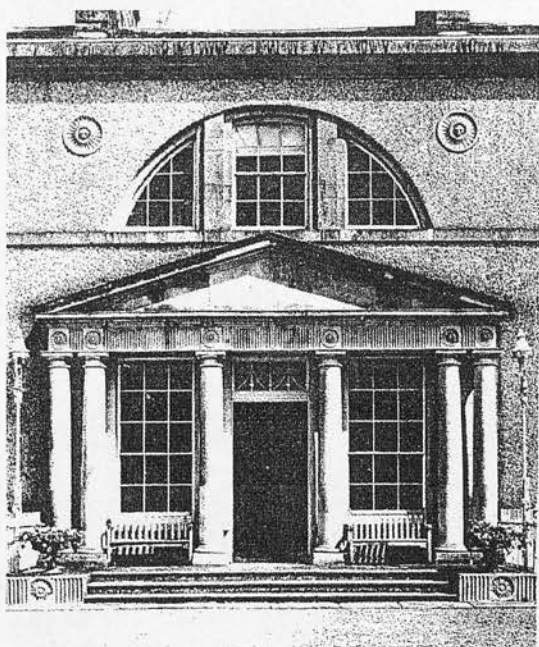


Plate 125 ii Mount Kennedy as built



Plate 126 Newcastle tower-house, Co. Dublin, doorway



Plate 127 i Jigginstown, detail to window at east end

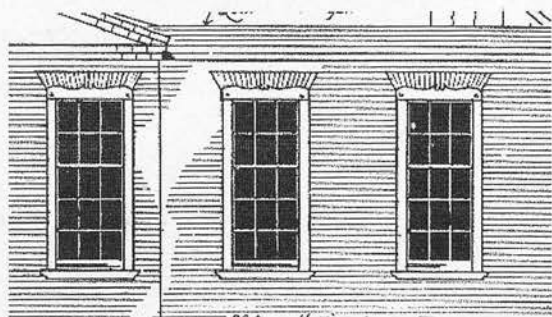


Plate 127 ii Lisle House, Co. Dublin, scrolled brick heads



Plate 128 Wards Hill, Dublin, detail of window heads



Plate 129 i Beaulieu

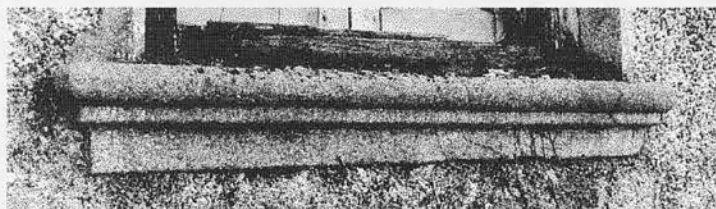


Plate 129 ii Kilmacurragh

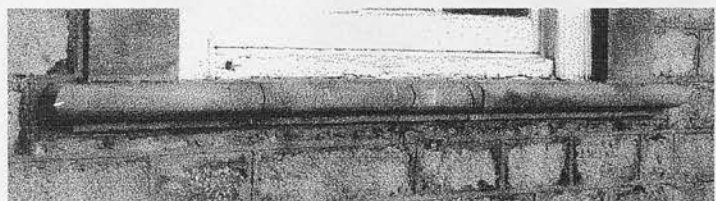


Plate 129 iii Castle Durrow



Plate 129 iv Drumcondra House



Plate 129 v Beechwood Park, Co. Tipperary

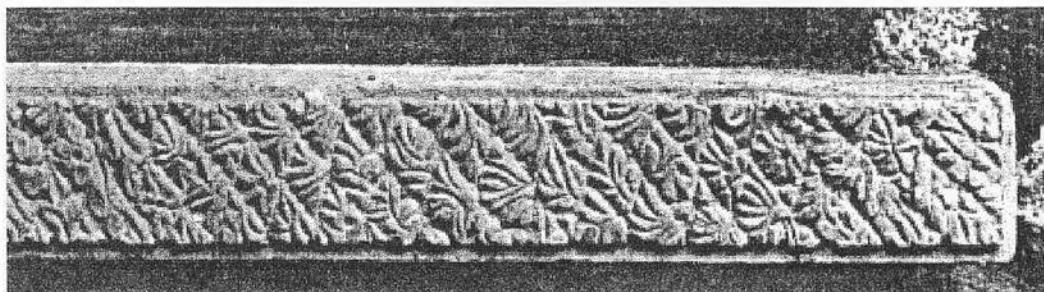


Plate 130 Glendaragh, Co. Antrim



Plate 131 Barryscourt Castle, Co. Cork



Plate 132 i Malahide Castle, Co. Dublin

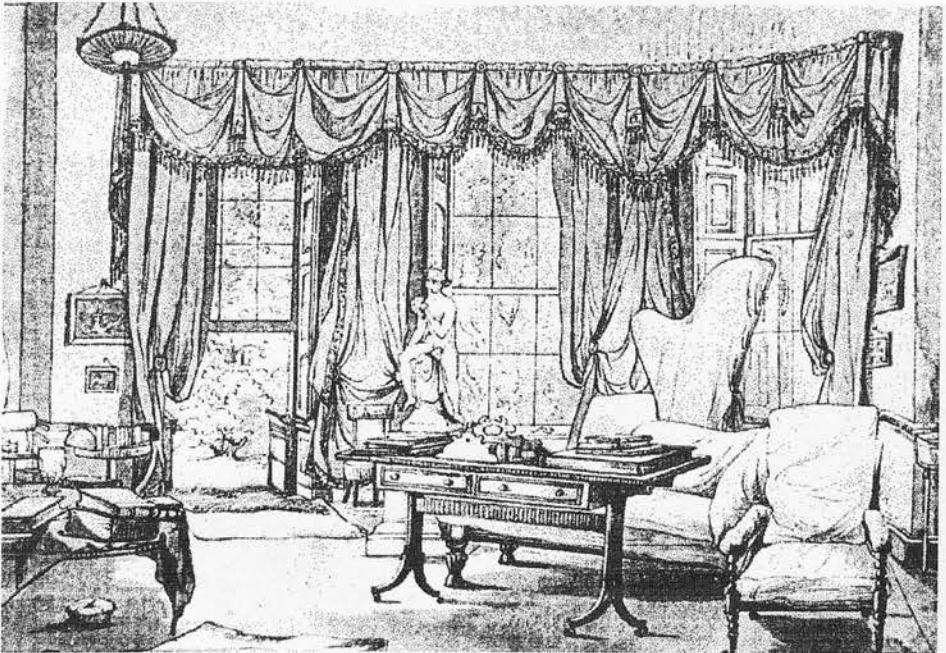


Plate 132 ii Marlay House, Co. Dublin (1839)



Plate 133 i Royal Spur

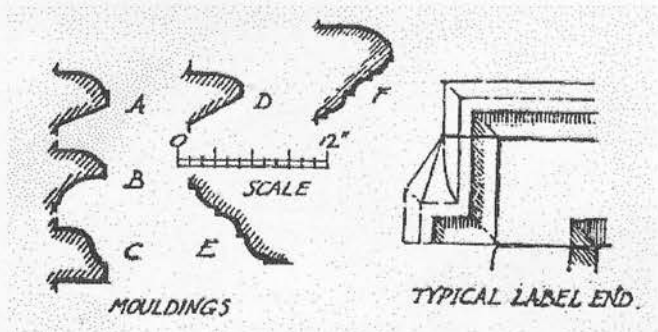


Plate 133 ii House in Kilmallock

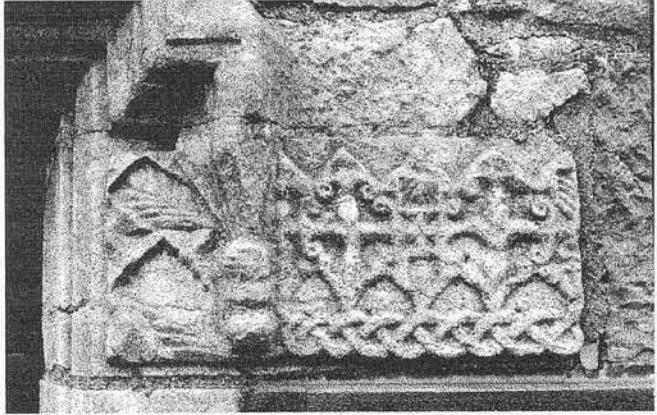


Plate 133 iii Detail of facade removed from St. Augustine Street, Galway

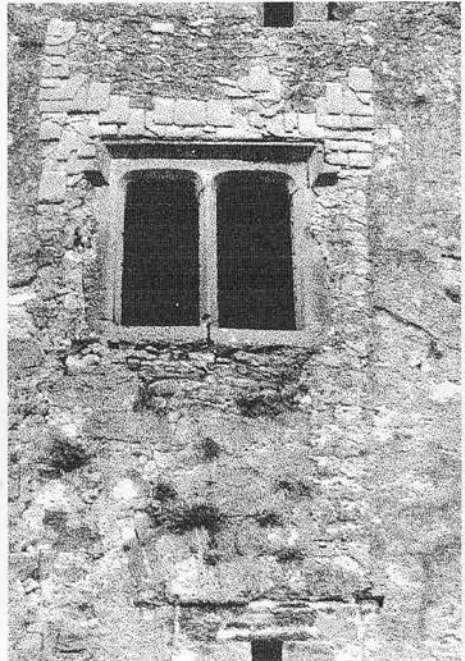


Plate 134 Ciara Castle, Co. Kilkenny

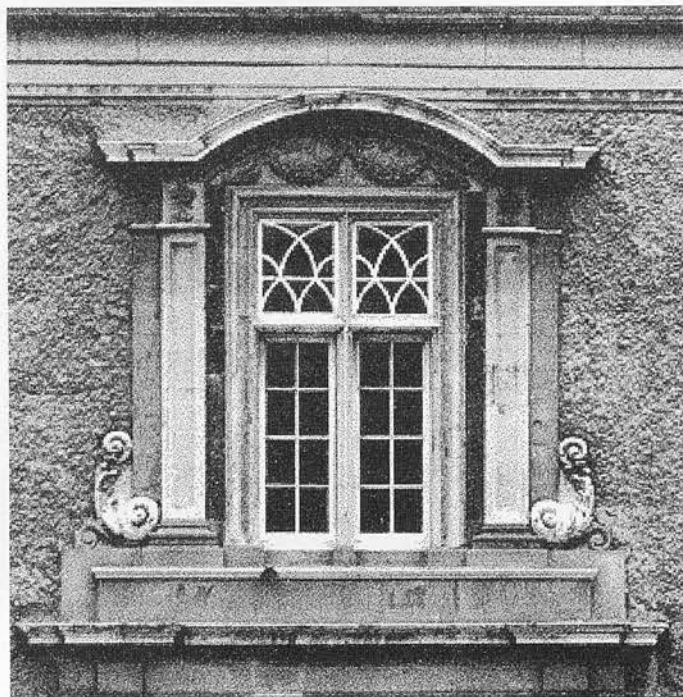


Plate 135 Royal Hospital, north side of courtyard



Plate 136 Brownes' Hill, Co. Carlow

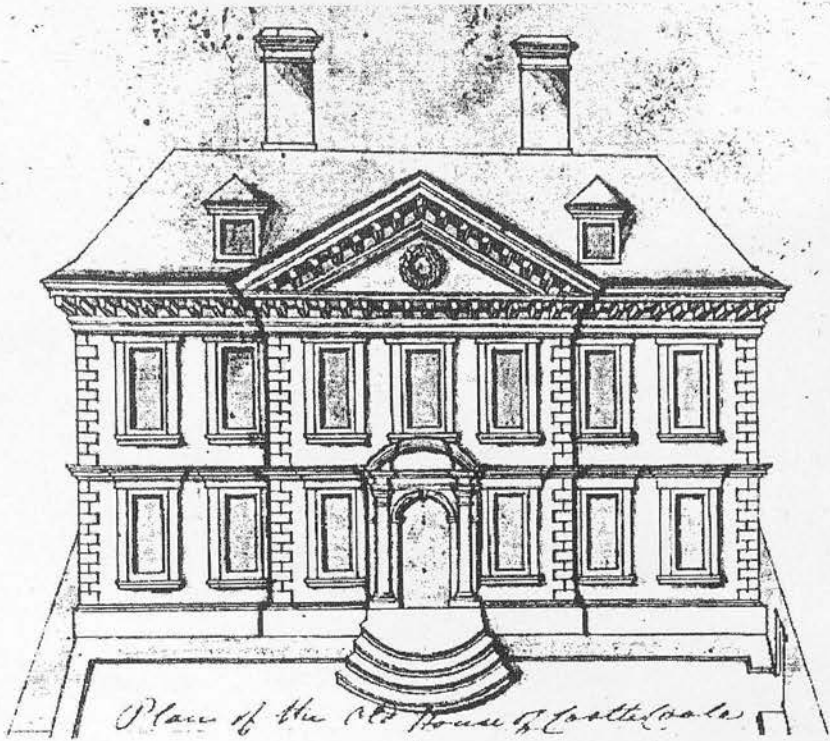


Plate 137 i Castle Coole, Co. Fermanagh (1709)

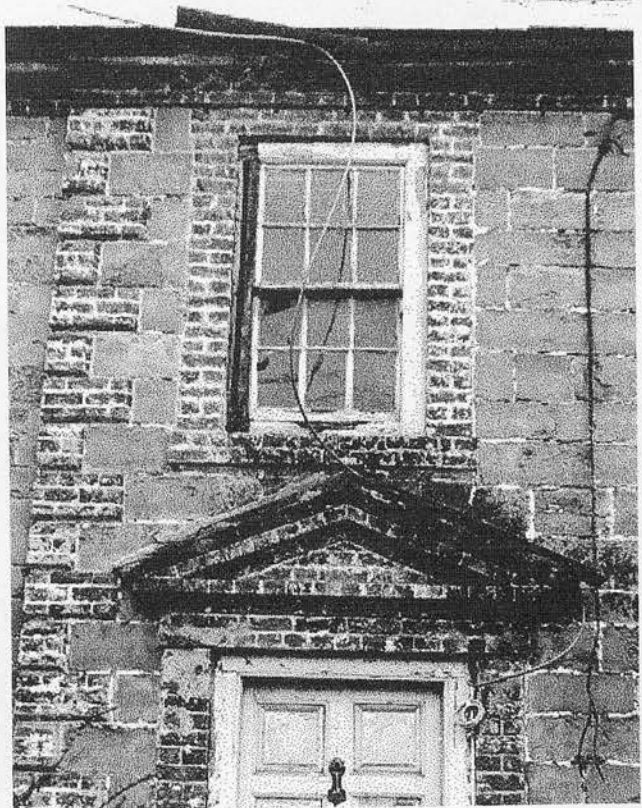


Plate 137 ii Main Street, Leixlip, Co. Kildare

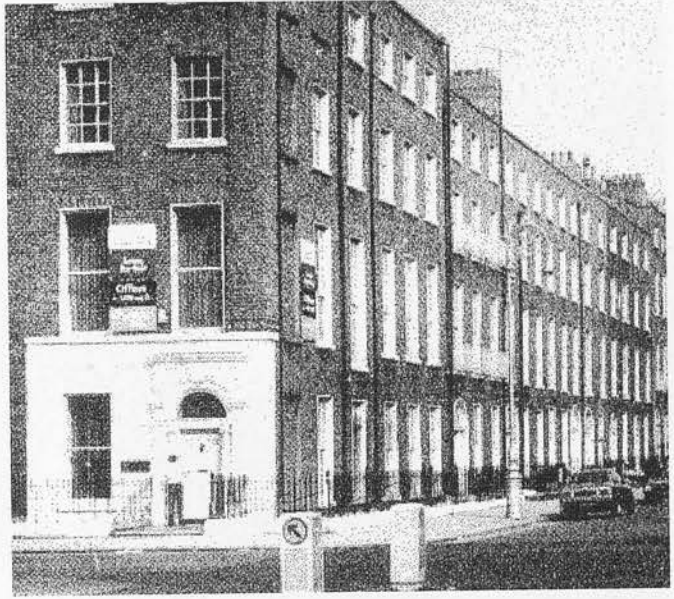


Plate 138 Mount Street Upper, Dublin

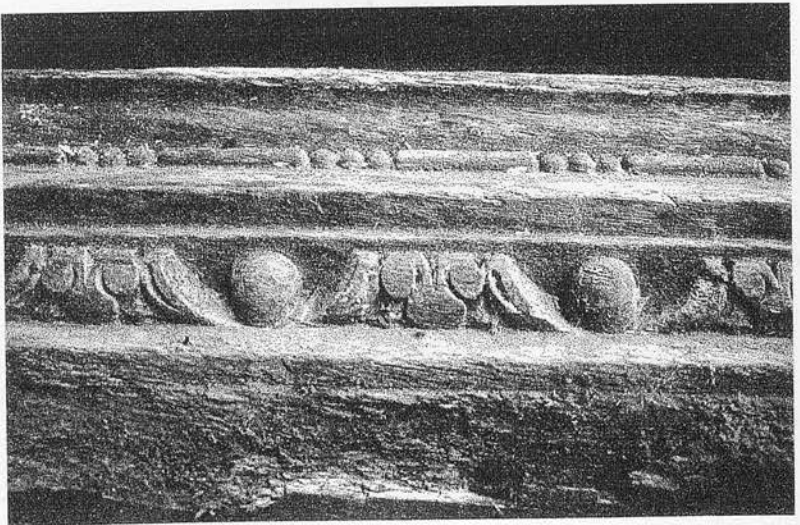


Plate 139 i-ii Eyrecourt frame detail

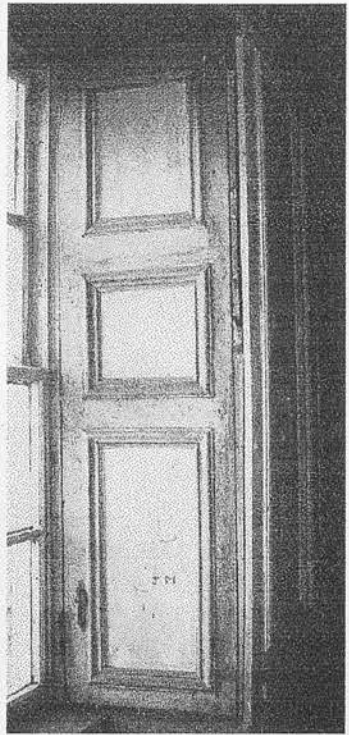


Plate 140 Buncrana Castle, Co. Donegal, first floor shutter



Plate 141 No. 85 St. Stephen's Green, ground floor reception room

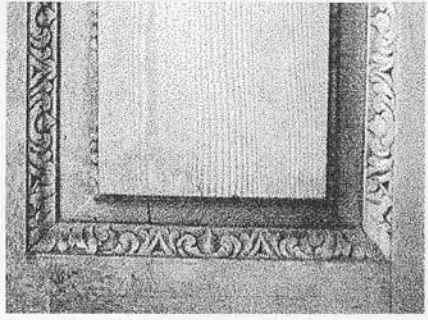


Plate 142 i No. 13 Henrietta Street, first floor

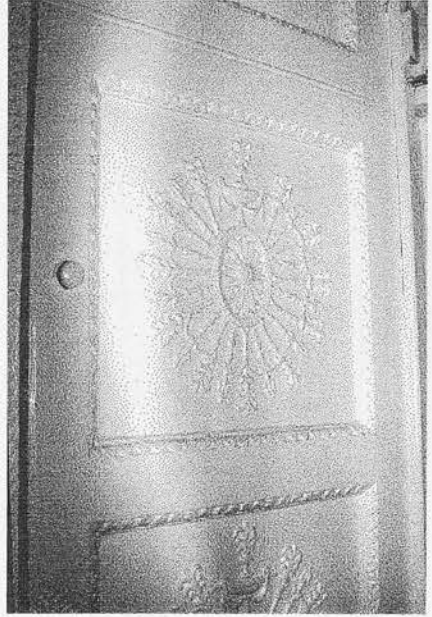


Plate 142 ii Powerscourt House, Dublin, first floor

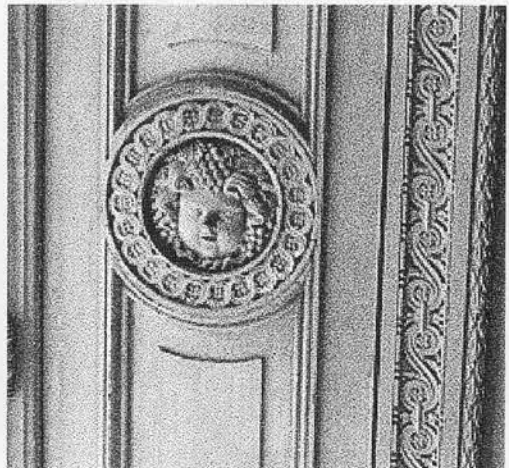


Plate 142 iii Carton, ground floor wing

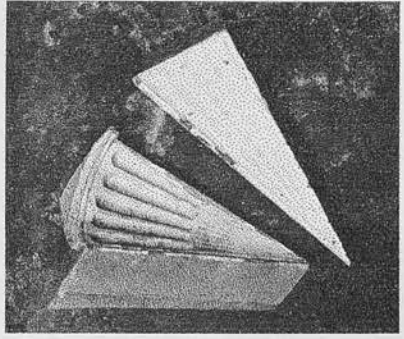


Plate 143 Fluted fans, from Dun Laoghaire, Co. Dublin

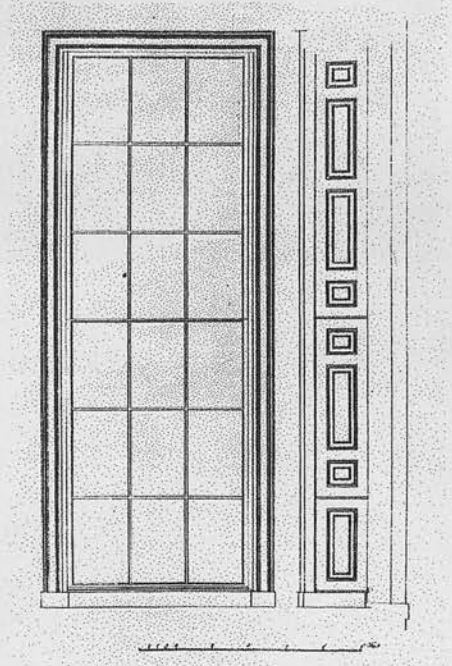


Plate 144 Shutter design by Gandon (c.1790)

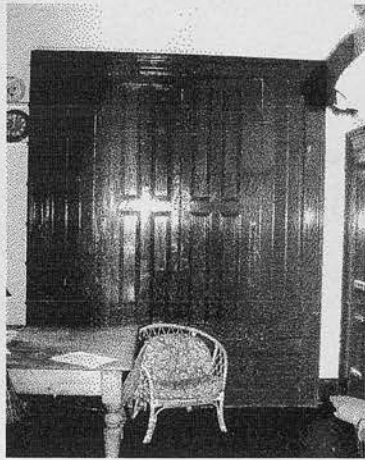


Plate 145 i-ii Seafield, Co. Dublin, kitchen wing

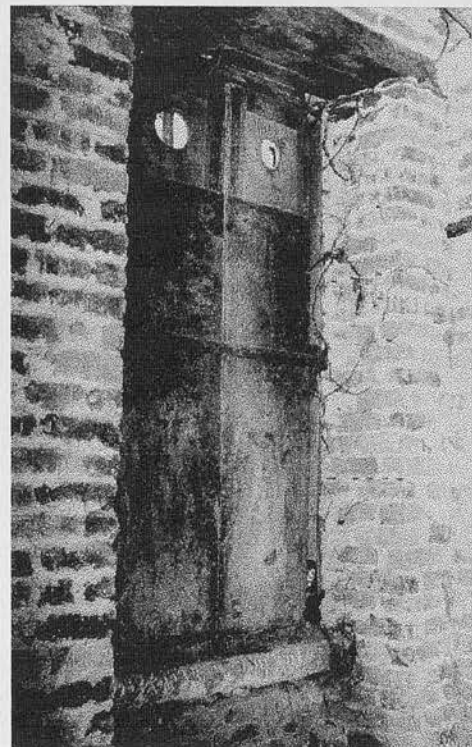


Plate 146 Kilmacurragh, iron-backed shutters, ground and first floor



Plate 147 i-iii Quadrant stops: Waringstown and no. 1 Vicar's Hill, Armagh

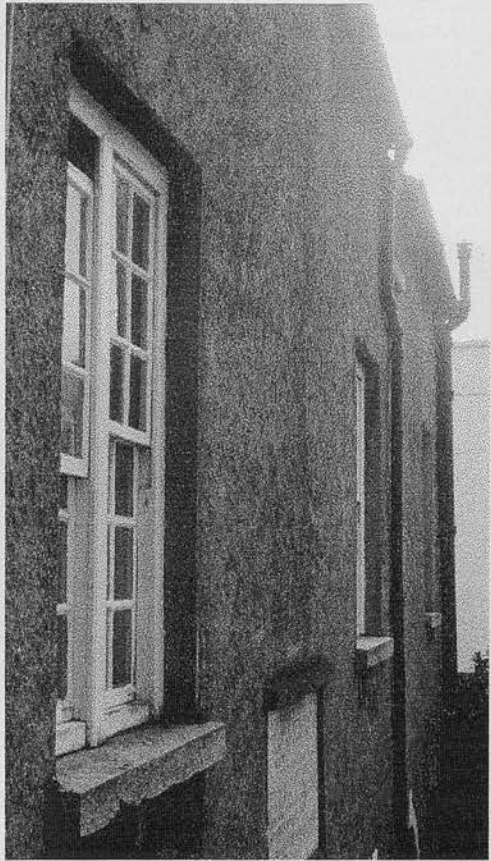


Plate 148 Skiddy's Almshouses, first floor

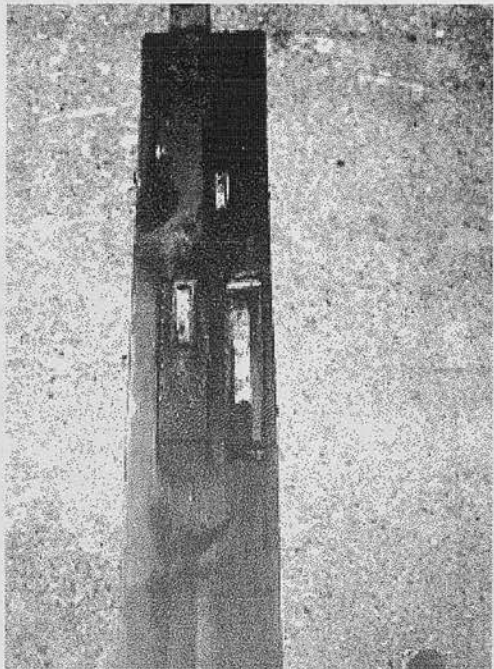


Plate 149 From no. 98 St. Stephen's Green, Dublin (ground floor)

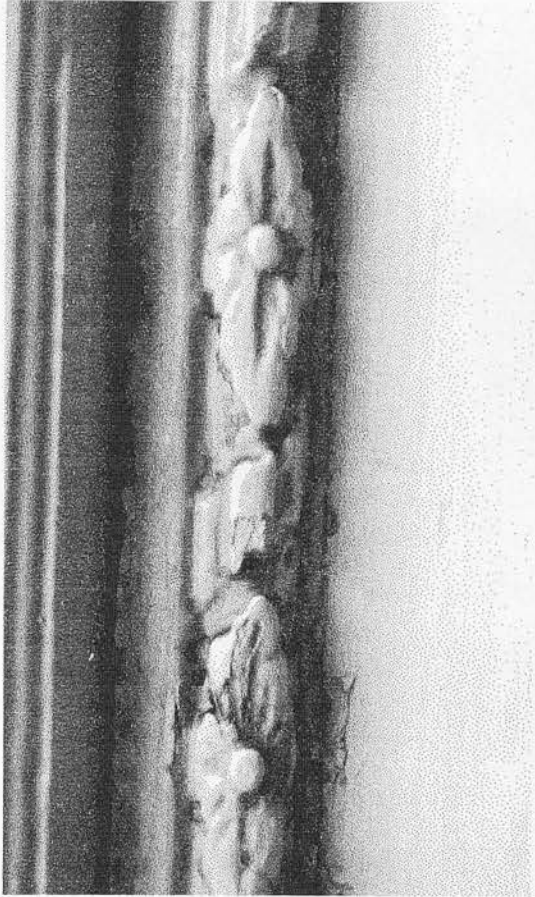


Plate 150 No. 86 St. Stephen's Green, staff bead, first floor

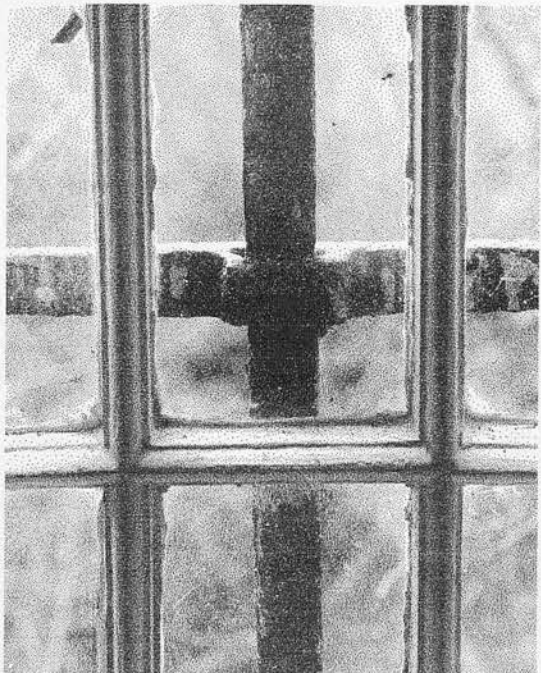


Plate 151 Ormond Castle, forged iron bars

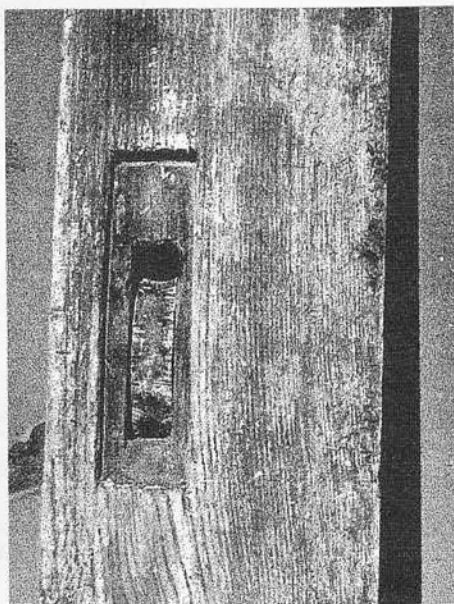
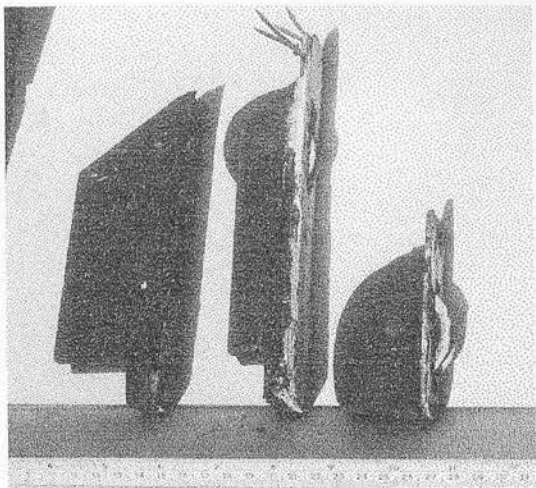


Plate 152 i-ii Pulleys from no. 98 St. Stephen's Green
and no. 3 Fownes Street, Dublin

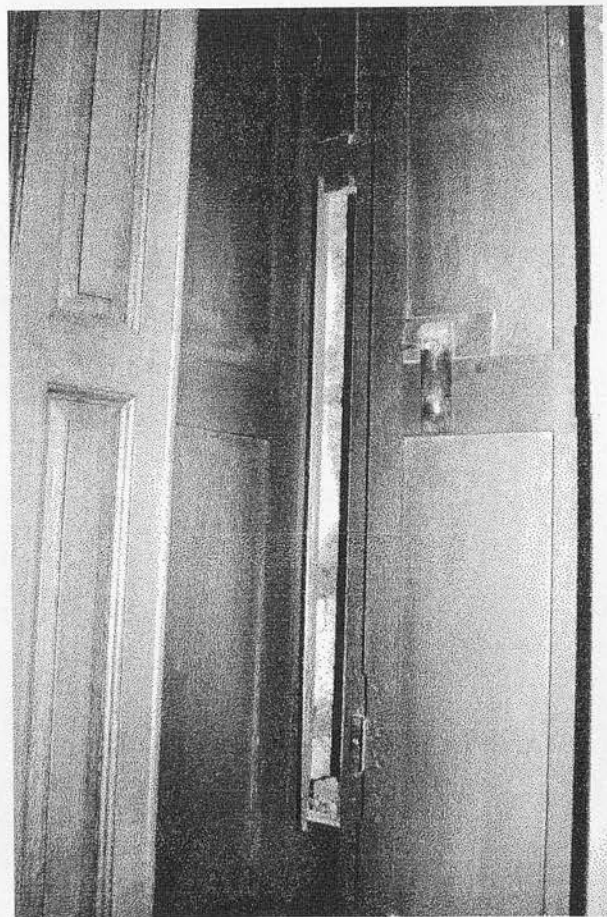


Plate 153 Drumcondra House, first floor weight box door



Plate 154 Waringstown, cross-window mouldings



Plate 155 Waringstown, first floor, north gable

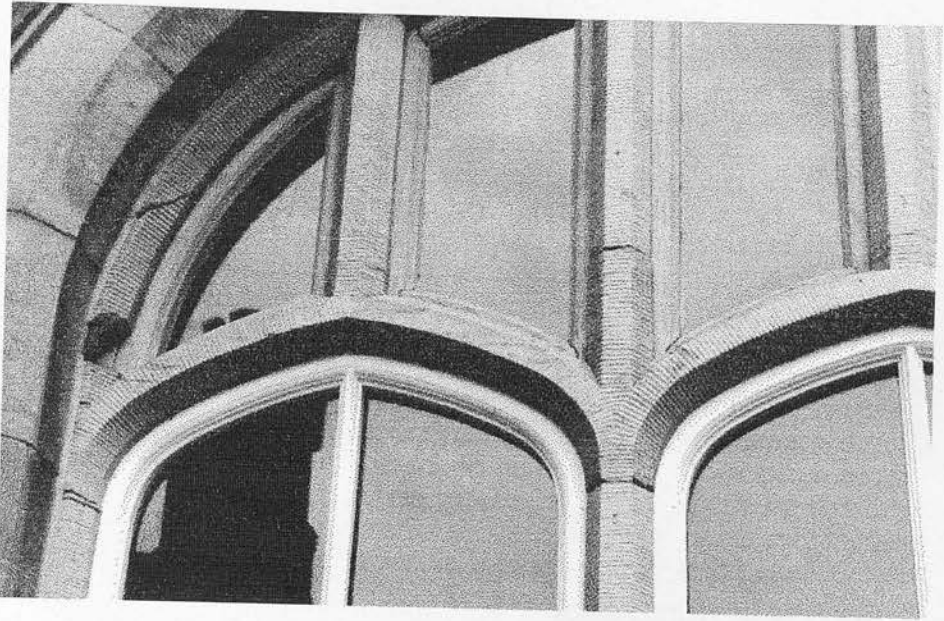


Plate 156 Kilkenny Castle, tooled timber frame

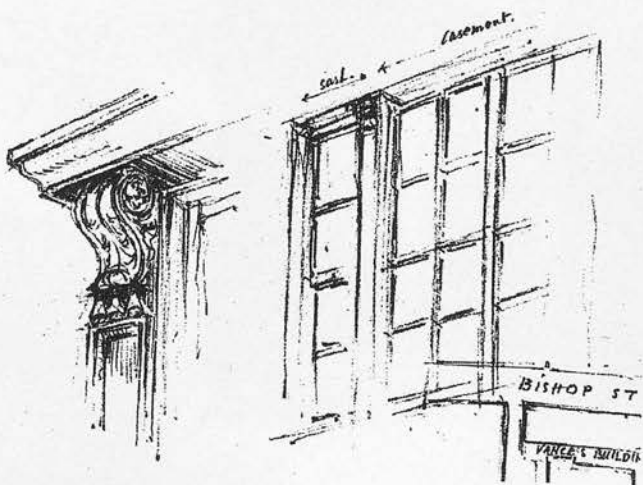


Plate 157 i-ii A court off Bishop's Street, Dublin (c.1913 and c.1960)

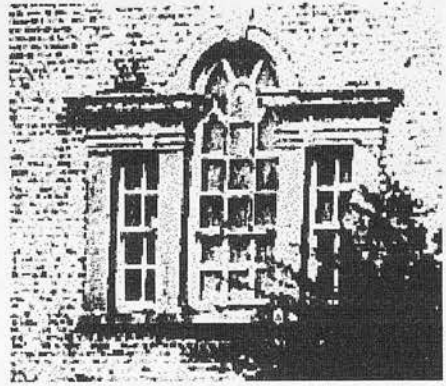
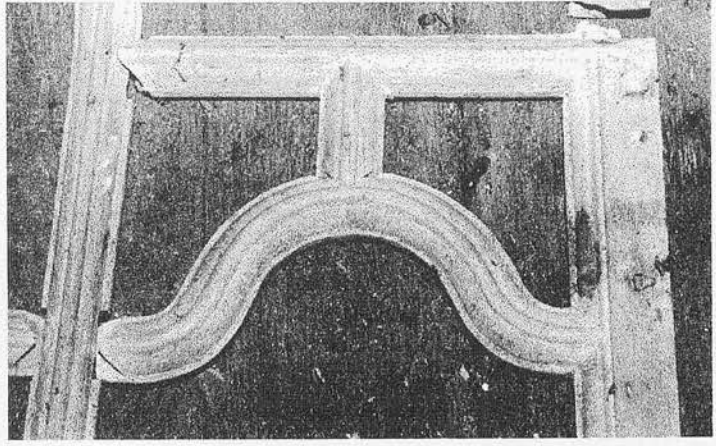


Plate 158 i-ii Dollardstown, Co. Meath, detail of sash

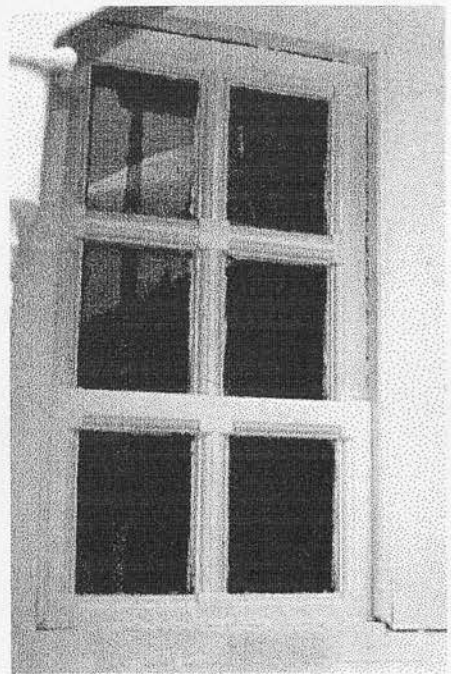


Plate 159 Bellinter, blocked sash



Plate 160 Leixlip Castle, two-part glazing bar

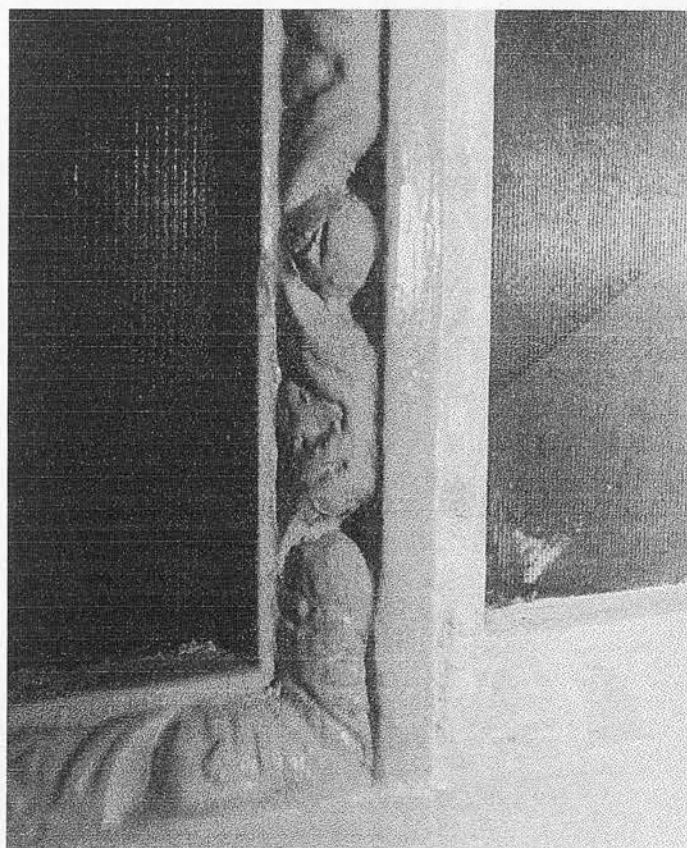


Plate 161 Carton, carved glazing bar

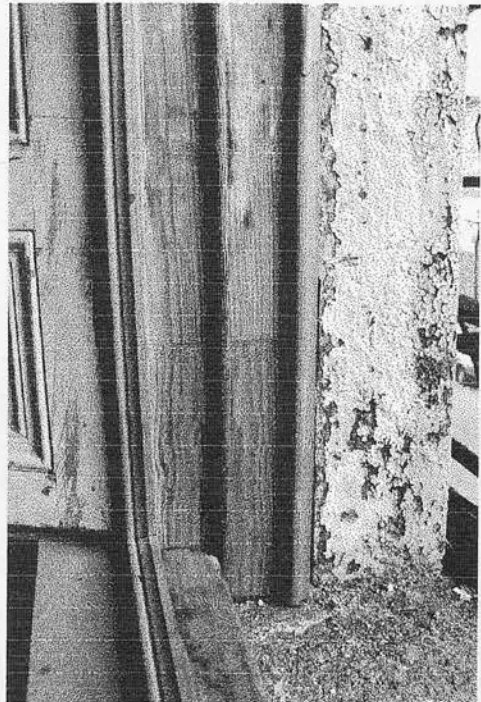
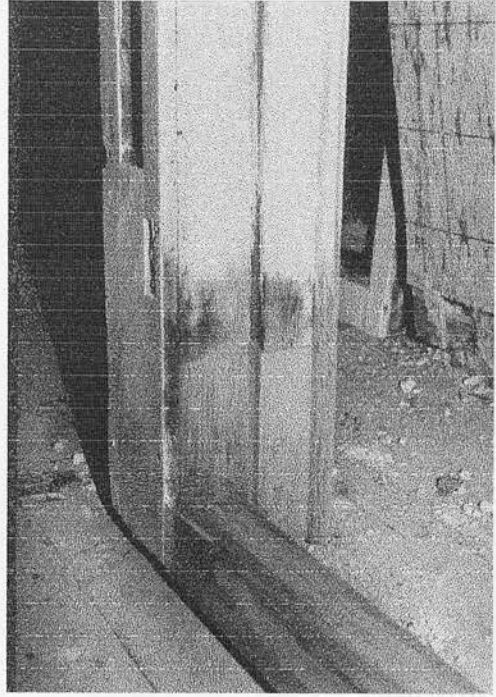
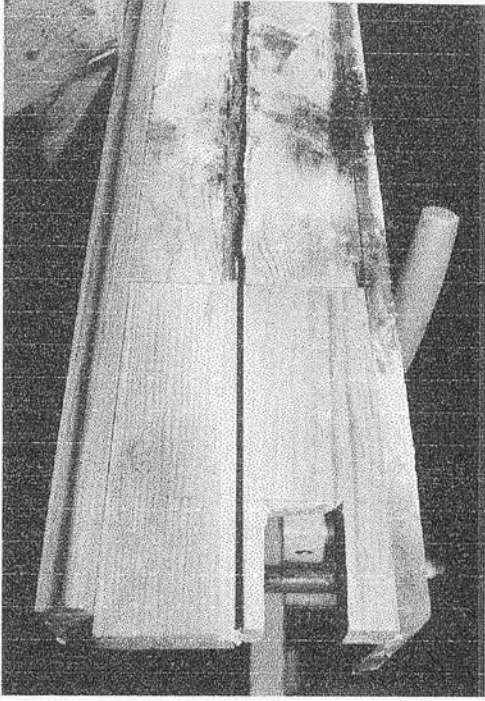


Plate 162 i-iii Carlow Presentation Convent, spliced frame repairs

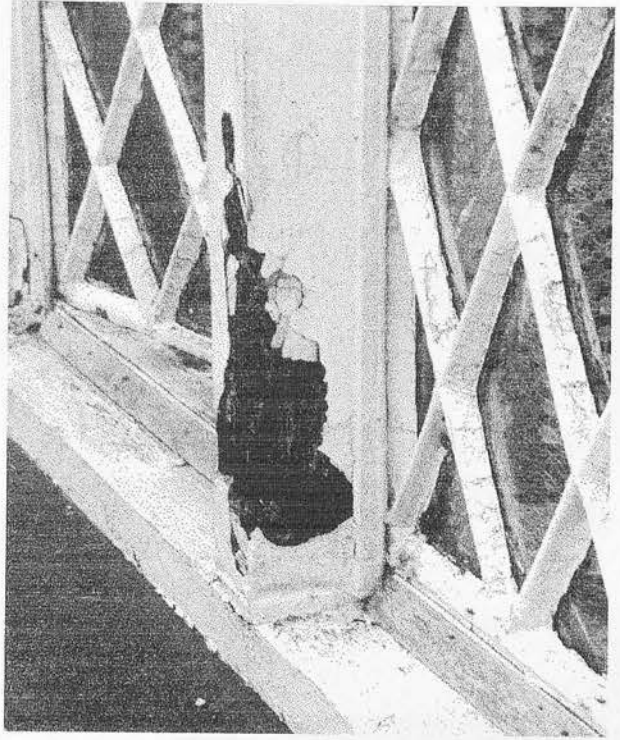


Plate 163 Southwell Gift Houses, decayed mullion

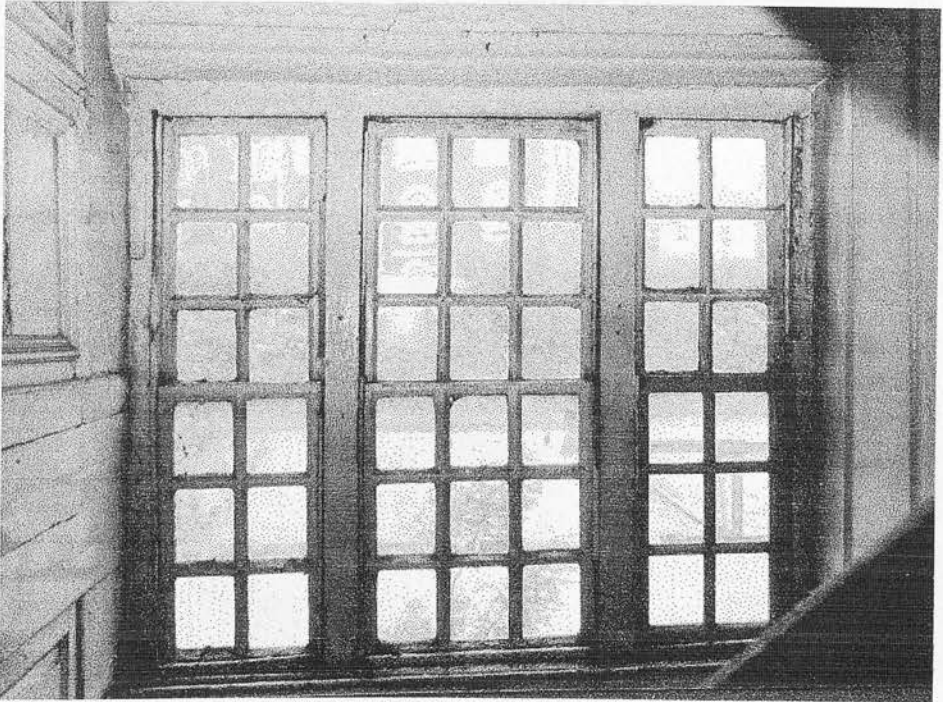


Plate 164 No. 50 Pope's Quay, stair window

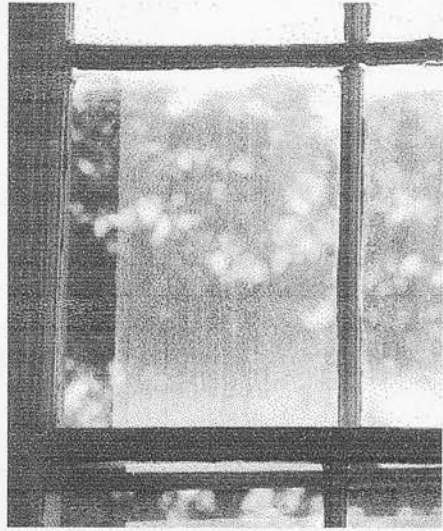


Plate 165 No. 86 St. Stephen's Green, loose and decayed joints

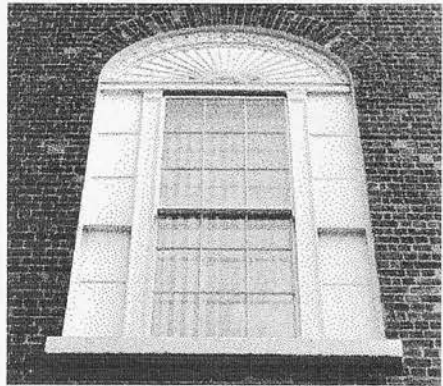


Plate 166 Upper Merrion Street, incorrect replacement

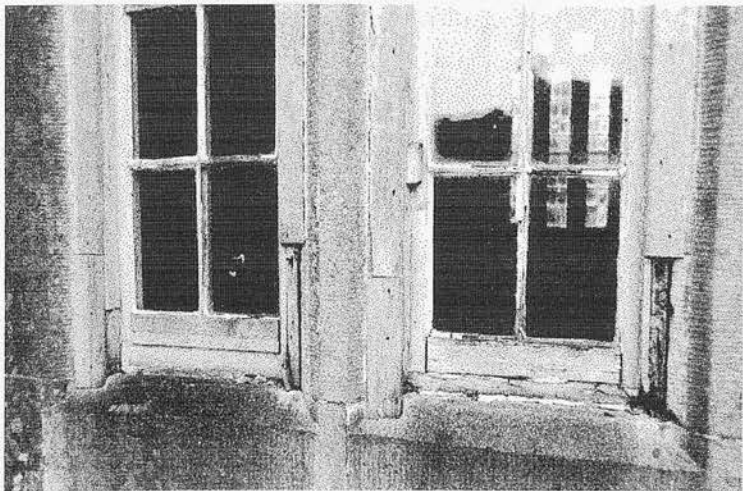


Plate 167 Clonfert Cathedral, acute conservation problem

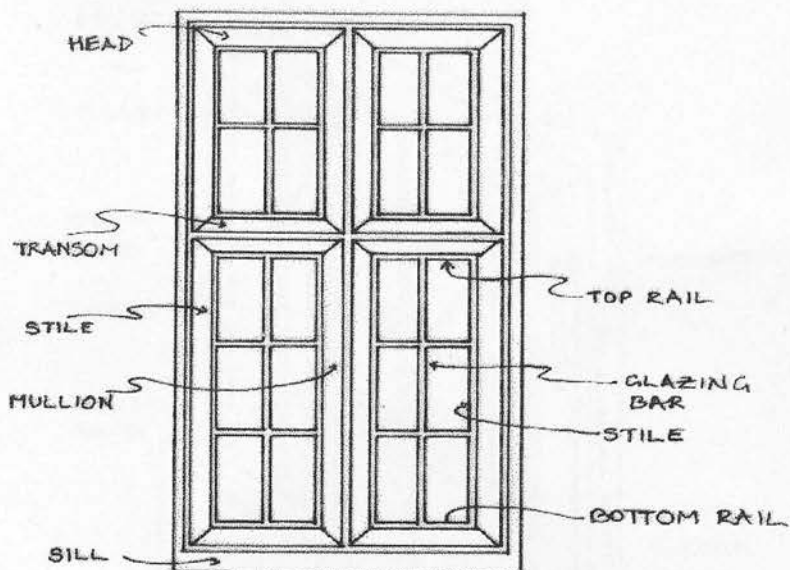
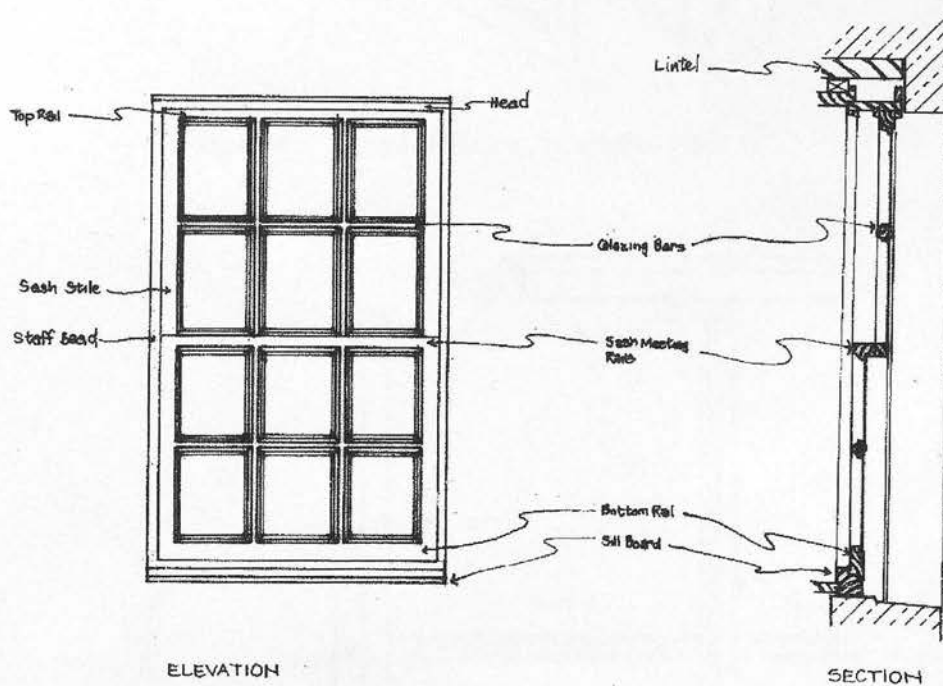


Diagram 1 Cross-window elements



ELEVATION

SECTION

PLAN.

Diagram 2 i-iii Sash-window elements

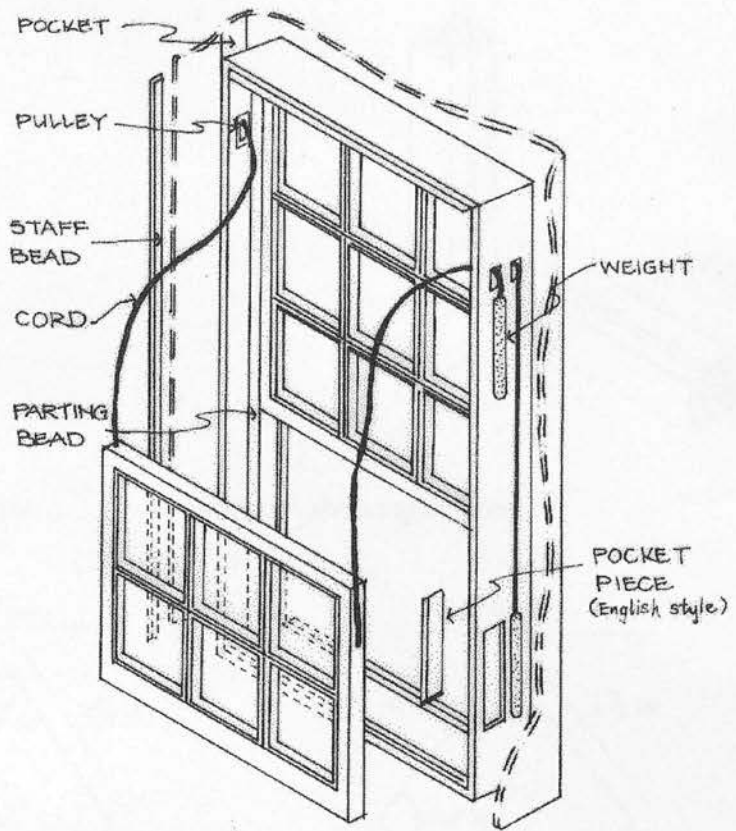


Diagram 3 Sash-window, isometric view

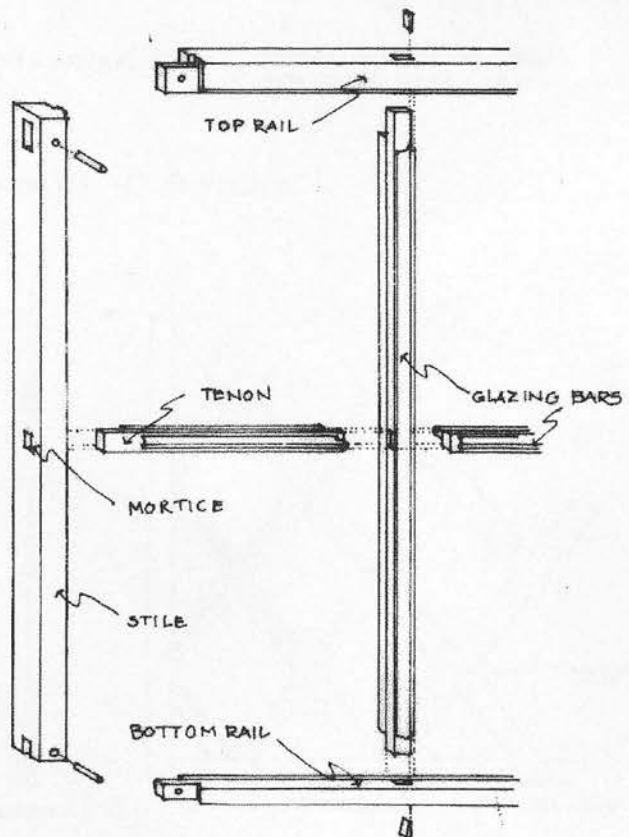


Diagram 4 Sash joints, exploded view

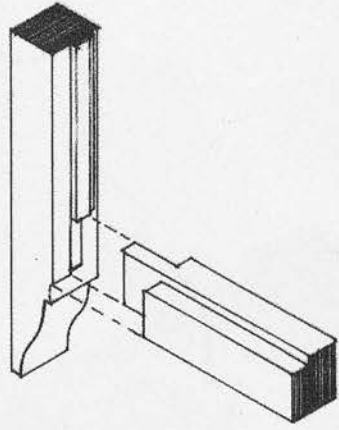
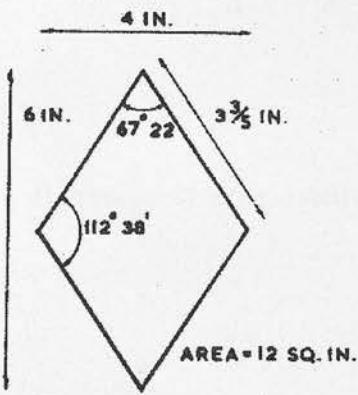
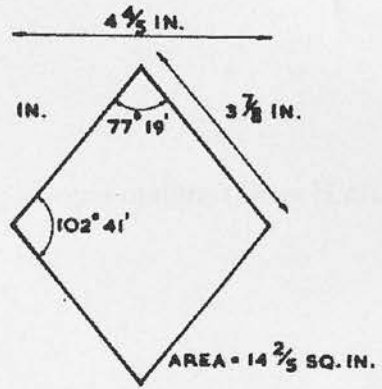


Diagram 5 Ogee sash horn showing the joint



NEVE'S "LONG QUARREL" TWELVE TO A SQUARE FOOT



NEVE'S "SQUARE QUARREL" TEN TO A SQUARE FOOT

Diagram 6 i Quarry panes

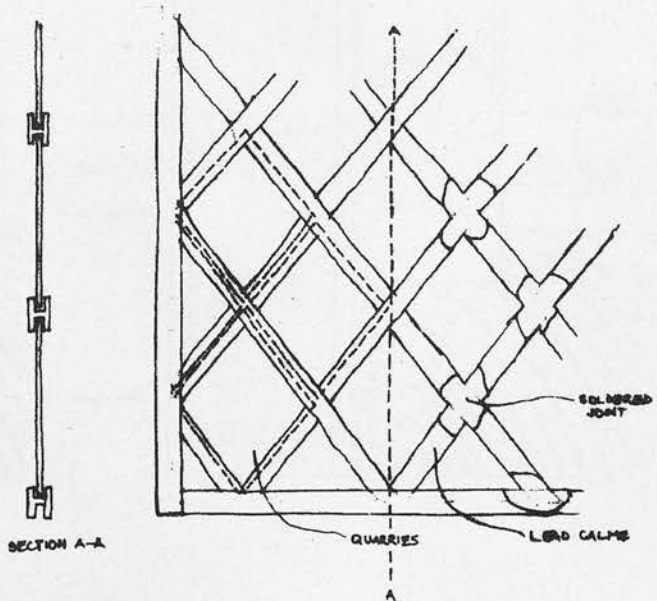


Diagram 6 ii Lead glazing matrix

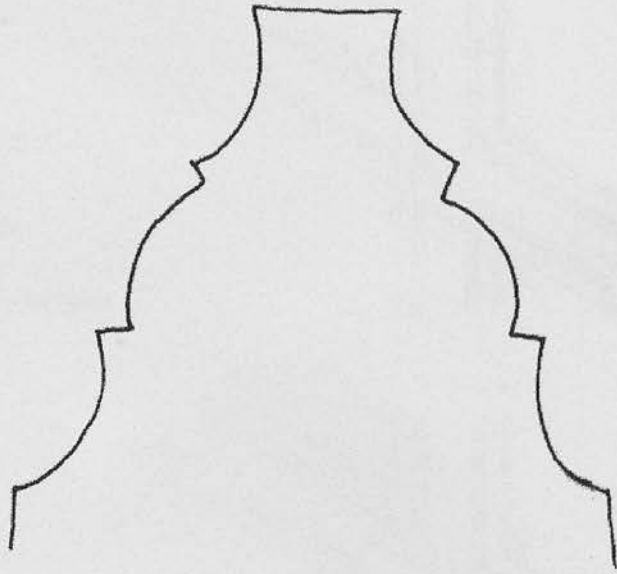


Diagram 7 Barryscourt Castle, external moulding of stone mullion (Great Hall)

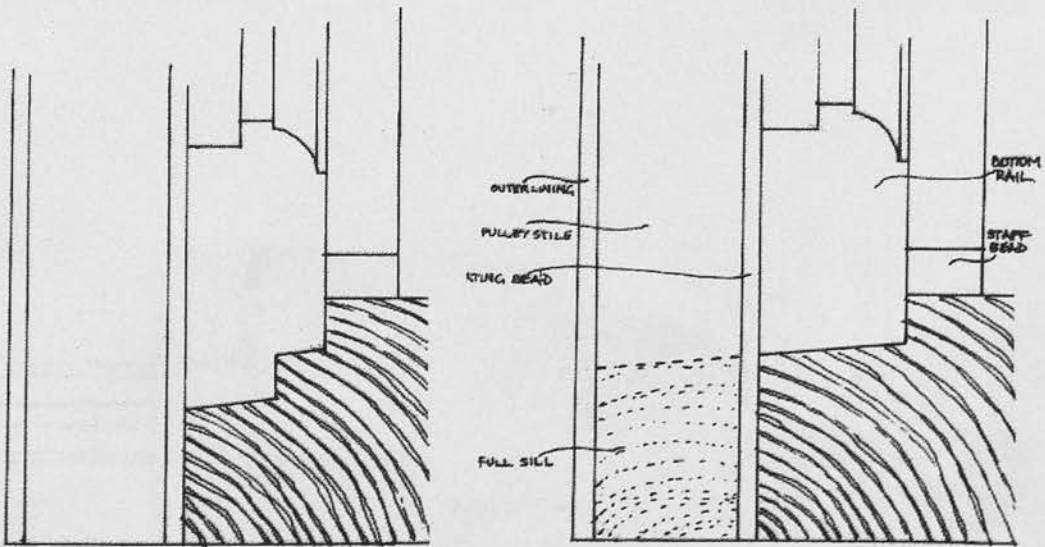
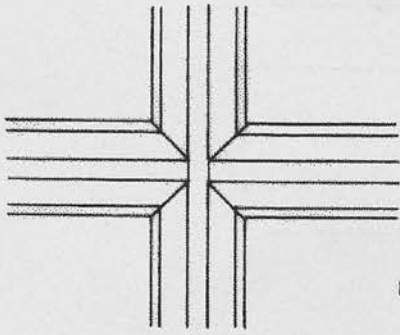
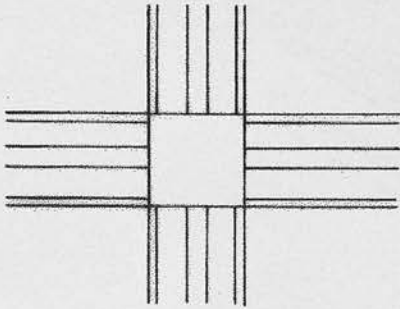
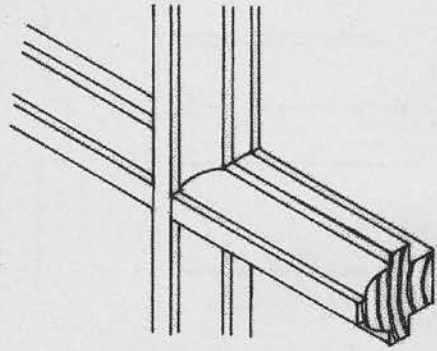


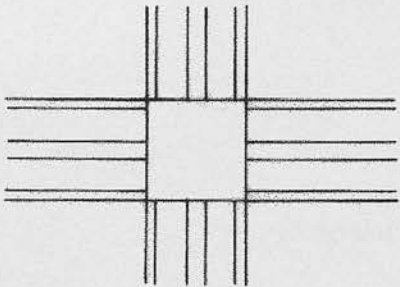
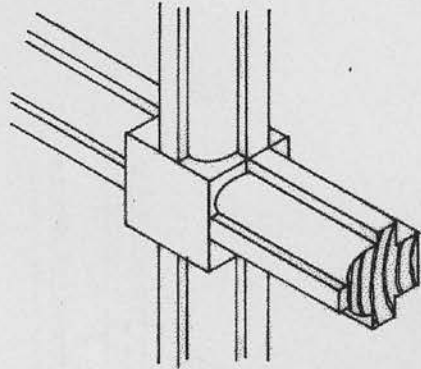
Diagram 8 i-ii Irish half sill, with and without step



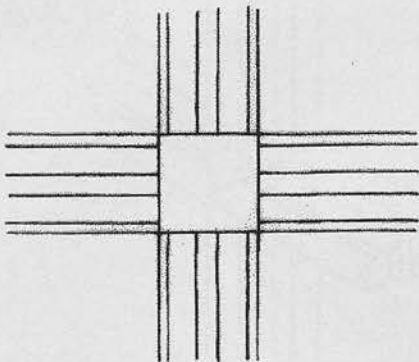
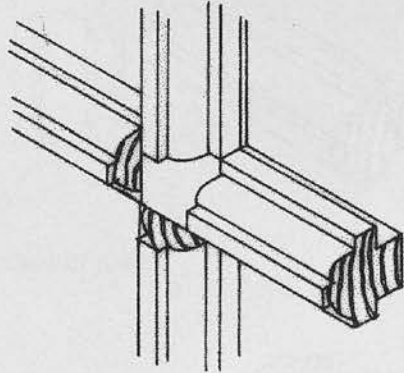
MITRED.



BLOCKED.



CUT OUT.



ROUGH.

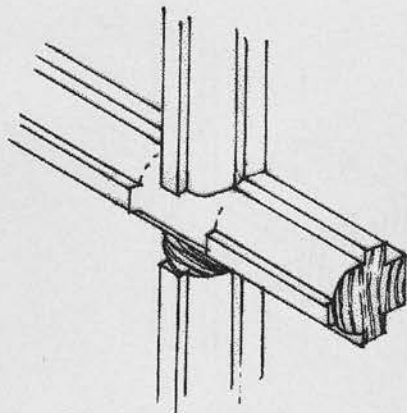


Diagram 9 Glazing bar joints, mitred and blocked

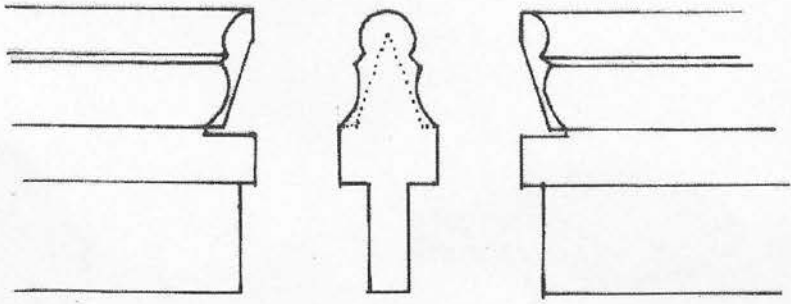


Diagram 10 i Mitred glazing bar joint

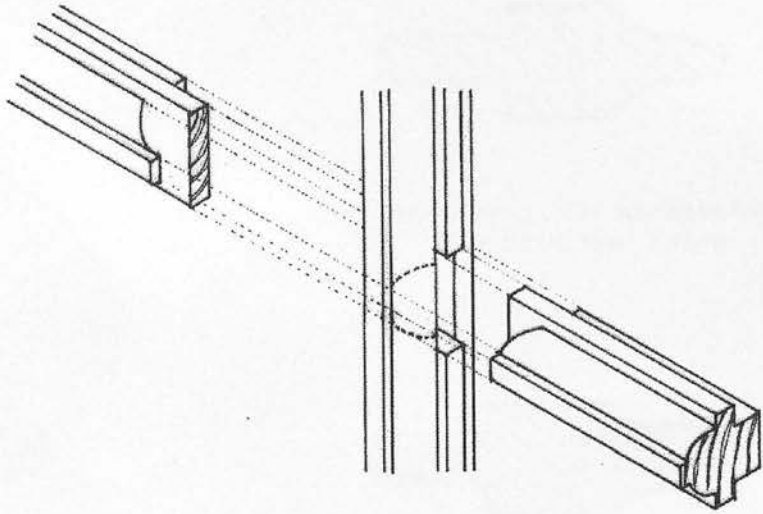


Diagram 10 ii Scribed glazing bar joint

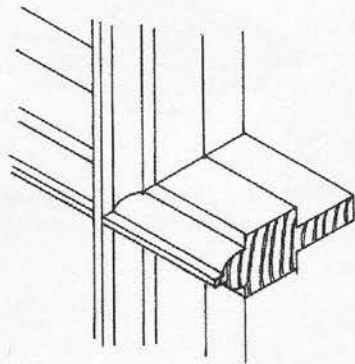
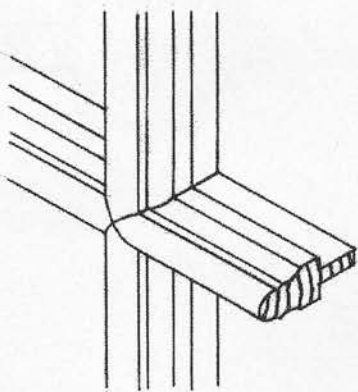
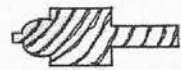
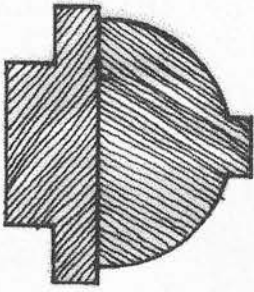
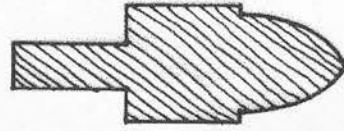


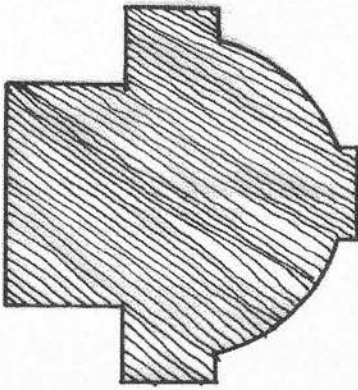
Diagram 10 iii-iv Finished mitred and scribed glazing bar joints



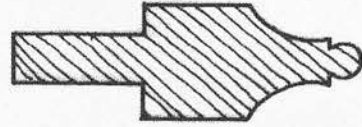
KILMACURRAGH, CO. WICKLOW
c1697 W. ROBINSON



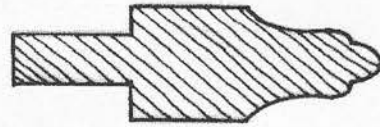
GOthic, UNKNOWN HOUSE



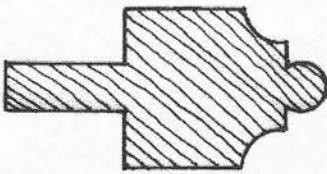
LEIXLIP, CO. KILDARE
UNKNOWN, EARLY 18TH-CENTURY



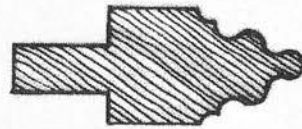
BALLYNAGALL, CO. WESTMEATH
F. JOHNSTON c1816



BALLYGHEEN HOUSE, SANDYCOVE,
CO. DUBLIN c.1840



CASINO, MARINO, CO. DUBLIN
1760-1770 W. CHAMBERS



ARDRESS HOUSE, CO. ARMAGH
c1774 G. ENSOR

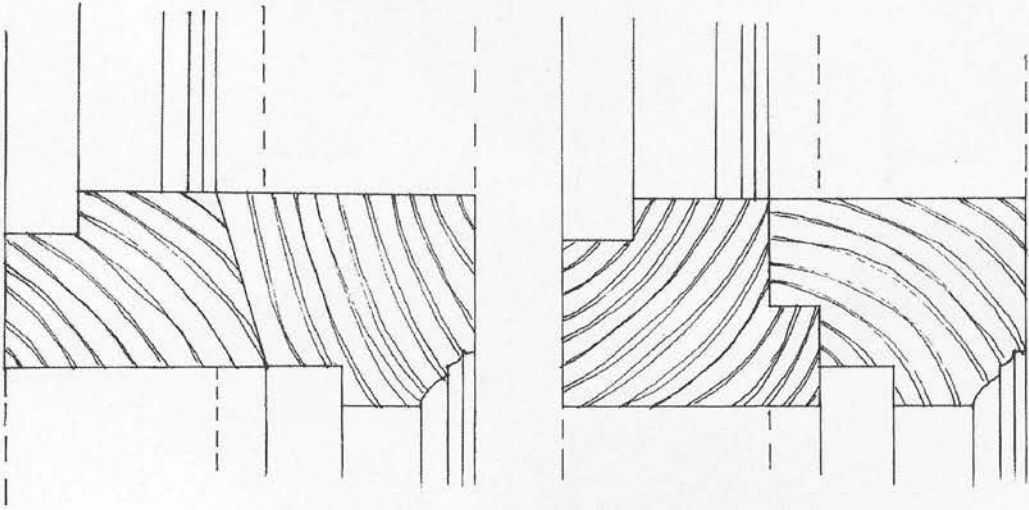
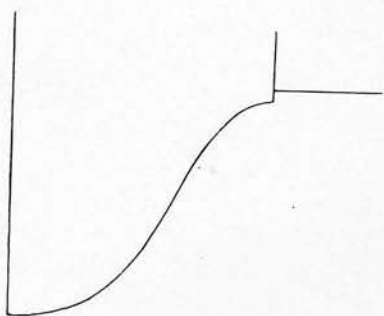
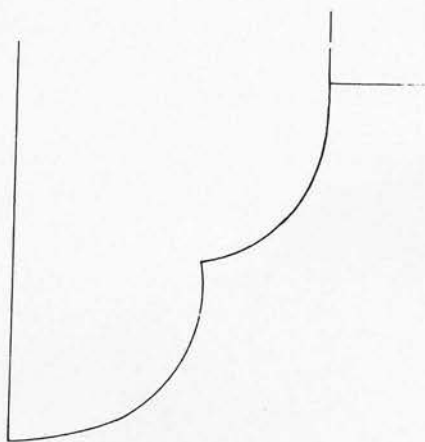


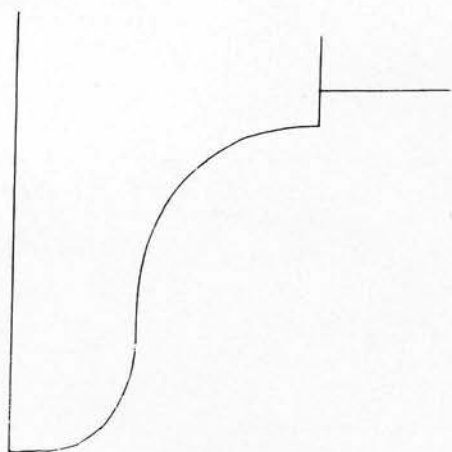
Diagram 12 i-ii Meeting rails: bevelled and stepped



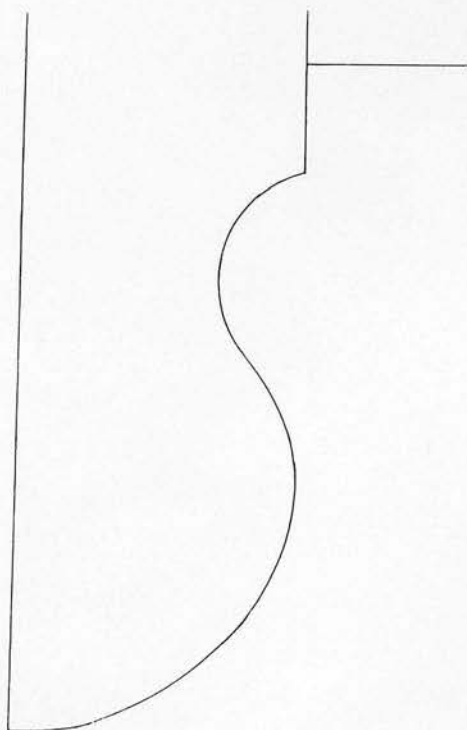
(i)



(ii)



(iii)



(iv)

Diagram 13 Sash horns

(i) The Argory, Co. Armagh, 1819 (ii) no. 52 Mountjoy Street, Dublin, c. 1825
(iii) no. 2 Palace Street, Dublin c. 1850 (iv) terraced house, Ranelagh, Dublin c. 1900