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THE

PRACTICAL BUILDER,

O R

WORKMAN'S GENERAL ASSISTANT:

Shewing the most approved and easy Methods for drawing and working the whole or separate Part of any BUILDING, as

The Use of the Tramel for Groins, Angle-Brackets, Niches, &c.

Semi-circular Arches on Flewing James, the preparing and making their SOFFITS.

RULES OF CARPENTRY;

To find the Length and BACKING of HIPS, strait or curved; TRUSSES for ROOFS, Domes, &c. — Truffing of GIRDERS, Sections of Floors, &c.

The Proportion of the Five Orders, in their general and particular Parts, Gluing of Columns, STAIR-CASES with their ramp and twift RAILS, fixing the CARRIAGES, NEWELS, &c.

Frontispieces, Chimney-Pieces, Ceilings, Cornices, Architraves, &c. in the newest Taste.

With Plans and Elevations of Gentlemens and Farm-Houses, Yards, Barns, &c.

By WILLIAM PAIN, Architect and Joiner.

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Engraved on Eighty-three P L A T E S.

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PREFACE.

Onfidering the Number of Books on the Theory and Practice of Architecture already published, any further Effort to illustrate and familiarize this MOST NOBLE ART, may feem superfluous and unnecessary; in me especially, who, by two former Publications, endeavoured to advance the young Practitioner in the Knowledge of his Profession.

But as Art is improving, greater Experience enables to discern the truly useful, and thereby to confirm or reject former Methods.

The very great Revolution (as I may fay) which of late has so generally prevailed in the Stile of Architecture, especially in the decorative and ornamental Department, will evince the Necessity and eminent Utility of this Publication. That Taste (so conspicuous in our modern Buildings) which is vainly sought in any other practical Treatise, the Workman will here find illustrated in a great Variety of useful and elegant Examples.

The Deficiencies and confined Plans of those Books now used by Workmen, is another Inducement to collect together in one View, the most easy and certain Rules to carry on the Building Art. These are the Result of Experience, and by the Author long used in conducting Business, who now offers the Public a general practical Treatise, wherein his great Care has been plainly and faithfully to answer the Purpose of the manual Artificer: It is not meant to instruct the professed Artist, but to surnish the Ignorant, the Uninstructed, with such a comprehensive System of Practice, as may lay a Foundation for their Improvement, and thereby enable them to execute with Ease and Precision, the various Branches of the Profession.

T H E

TABLE OF CONTENTS.

Plate		Plate	
1 —	NICHES, Elipsis, raising Perpendiculars, use of	21	- Corinthian Pedestal and Base
	Perpendiculars, use of		at large
	the Tramel, and how to	22	- Corinthian Capital and com-
	make ditto, &c.		posed ditto
2	Plan and Section of Groins,		- Ditto Entablature
	veneering Niches, &c.	24	- Antique Composite Capital.
3	Circular Arches in a circular	25	- Composite Cap & Entablature
-	Wall, circle Arches, Soffits, &c	26	 Planceers of Corners
4 —	Groins, Angle Brackets, Cir-	27	- Gluing of Columns
	cular and flewing Soffits		- Impost
5 to 9	Sections of Floors, Truffing	29 to 3	4 Frontispieces with their Enta-
,	Roofs in Ledgment, Girders,		blatures, Moulding, &c.
	length and backing of Hips,	35 80 3	6 Open Pediments and raking
	strait and curved Trusses for	-	Cornices
	Roofs, Domes, &c.	37 to 4	8 Chimney - Pieces with their
10	Mouldings, Ballasters, &c.		Moulding and Ornaments
	Inter Columnations	49	- Mouldings for Pictures and
12	Proportions of the Orders, Pe-		Glass frames
	destals, &c.	50	- Ornaments for Frizes, Pillaf
13	Tuscan Frontispiece, Base, Ca-		ters, &c.
ŭ	pital and Entablature	51	- Cornices for Doors, Chim-
34	Doric ditto		nies, &c.
15	Ditto Entablature at large	52 to 5	8 Bases, Sub-bases, Architraves
	Ionic Frontispiece, Base, Ca-	4	₿c.
	pital and Entablature	59 to 6	or Cornices for Door-Caps, Chim-
17	Ditto Entablature at large		ney-Caps, Rooms, &c.
18	Modern Ionic Capitals and Vo-	62 to 6	5 Ceilings, Frets, Guiloches, &c.
	lute at large	66 to 7	3 Stair-Cafes
19	Gluing up ditto		3 Gentlemens Houses, Green-
	Antique Ionic Capital		houses, Hot-houses, Stab-
der.	•		ling, Farm-houses, &c.

A TABLE for the Cutting of Timber for Building.

Bearing Post.

Height.	1
If 8 Feet	9 Inch. fquare
- 10	10 by 9
<u> </u>	11 - 12
<u> </u>	14 - 15
20	16 — 18

Girder's Bearing.

If 10 Feet	10 by 9 ln.
- 12	11 - 10
— 14 ——	12 - 11
_ 16	12 - 13
- 18	13 - 14
- 20	15 - 14
- 24	15 - 16
- 30	16 — 18

Binding Joists.

Bearing	Inches
6 Feet	6 by 4
8	7 - 4
9	8 — 4
12	10 - 5

Bridging Joists.

Whose Bearing should not exceed 5 Feet, and Scantling not less than 6 by 4.

Common Joist.

Bearing	
6 Feet	6 by 3
9 —	9 - 3
12	12 4

Beams or Ties.

Length	Inches
12 Feet	7 by 8
16	8 — 9
20	9 - 10
30	10 11
40	12 - 11
50	13 - 12

Small Rafters.

Bearing	Inches
8 Feet	5 by 3
10	7 - 3
12	8 2

Principal Rafters.

	Len	gth		Botm. Top. Thick.
				8 - 6 - 5
From	16	to	20	 9 - 7 - 6
				10 - 8 - 7
From	24	to	30	 12 -10 - 9

Purlins from 8 by 5 to 9 by 7 or 10 by 8.

Raifing Plates from 7 by 5 to 8 by 6, or 10 by 8.

Ground-fills the fame as Raifing Plates.

To face PLATE I.

Figure A and B are ribb'd NICHES for Plaistering.

HE Plan a is a Semi-Elipsis on the transverse Diameter, which is drawn with a Tramel as represented in the Plan, which is to be made with a Grove at Right Angles as in the Figure; two Pieces to be morticed to slip on the Rod, and one fixed at the End for a Pencil, &c. fix one of the Pieces equal to half the Conjugate Diameter, and the other to half the Transverse Diameter, and moving the Rod with the Pins in the Groves, the Pencil will describe the Semi-Elipsis.

To draw the Elipsis c to any given Length and Breadth, take half the Conjugate Diameter a b and set it on the Transverse Diameter d c divide c a into three equal Parts, and make c e equal to one of those Parts, and with the Radius e f bisect g g. So the Points e f and g g are the Centres for drawing the Elipsis to any Length and Breadth.

To draw the Elipsis d with a Line, take half the Transverse Diameter b a and set it from c on the Conjugate Diameter to d on the Transverse Diameter, and to e on ditto, then e d are the Points to be fixed for the Line to go round, which will describe the Elipsis with the Point f.

To glue the Head of a Nich as Figure e, cut the Arch Part of the Board or Stave to the Thickness of a Veneer, and bend it on a Templet, and back it to the Curve, it may be jointed the same as a Column, &c.

To describe a Polygon to a given Side from five to eight Sides, make a Radius of the given Side for the Pentagon, divide the Arch into five Parts, turn one down on the Line which is the Centre, to describe a Circle which will contain the Side five Times.

For a Hexagon, the Radius of the Side is the Centre.

The Heptagon into seven Parts and turn one up.

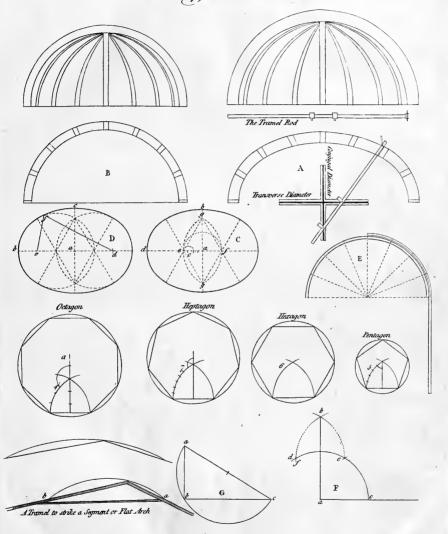
The Octagon into four and turn one up.

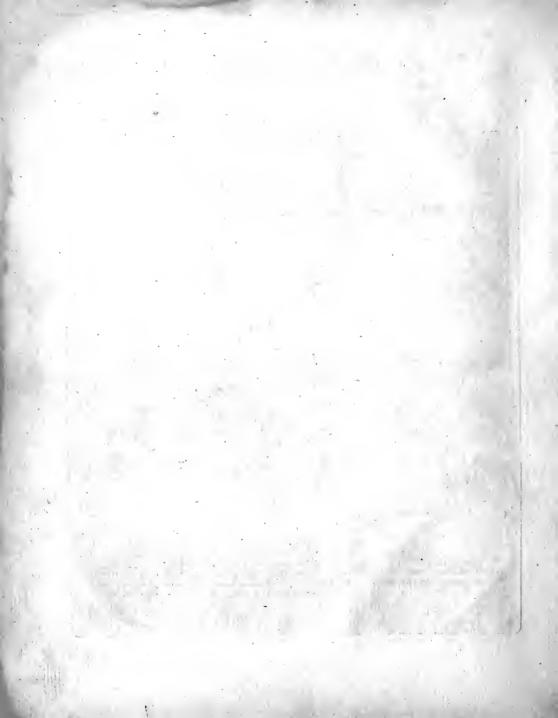
To raise a Perpendicular at the End or Middle of a Line. Describe the Arch c d, and with the Radius a c make e f, which bisect at b, gives the Perpendicular to a.

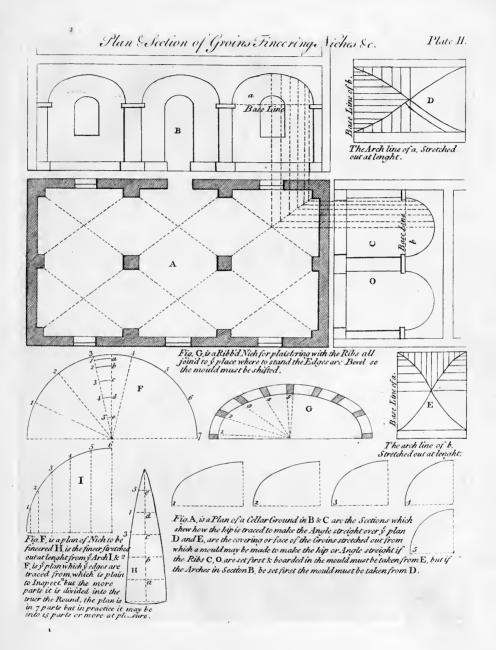
To let fall a Perpendicular from a given Point to a Base Line. Figure G; let a be the Point given to fall to the Base Line b c, draw a right Line from a at pleasure to meet the Base Line as at c, more or less; divide the Line c a into two Parts, and draw the Semi-Circle a b c, and where the Circle cuts the Base Line at b, which is at Right Angles with a, which was to be done.

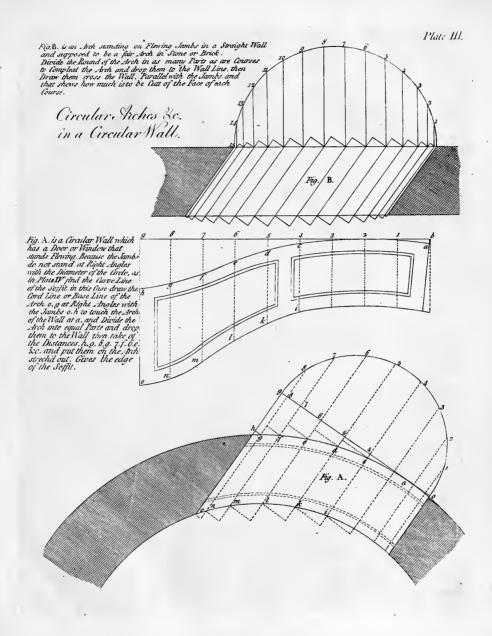
Niches, Polygons, Trumels &c.

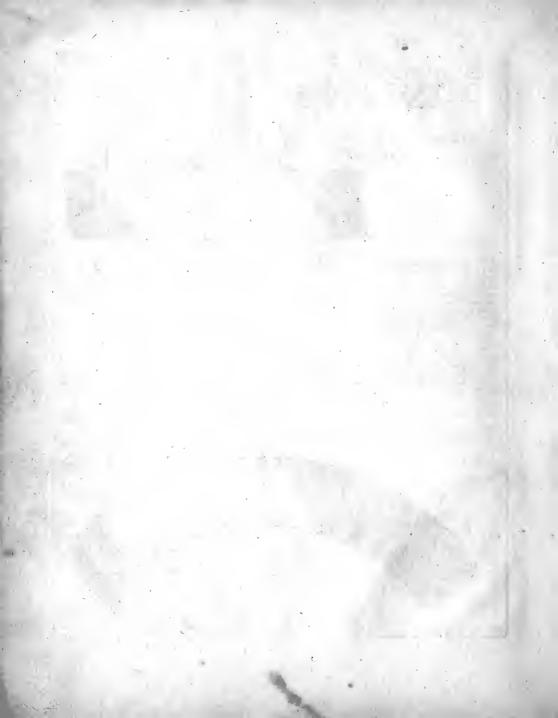
Plate I.











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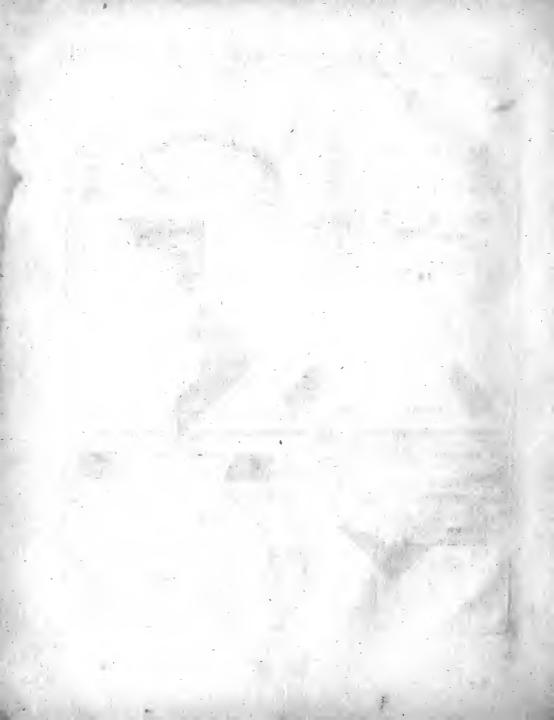
To face PLATE IV.

Figure A is a PLAN to be GROIN'D.

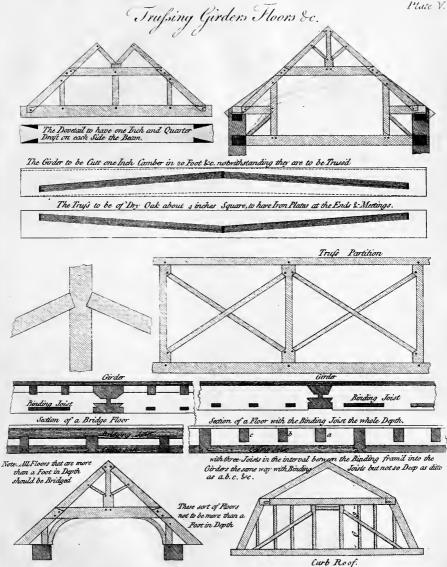
IVIDE the Base Line a of the given Rib into equal Parts, and that of d into the same Number of Parts, and draw Lines to the Arch Line of a, and likewise in d at pleasure; then take 1, 2, 3, 4, 5, 6, &c. from a, and transfer them to d, as 1, 2, 3, 4, 5, 6, &c. and thro' the Point 1, 2, 4, 6, 8; trace the Arch Line over d, and so for the Rest, as is plain to Inspection. The Angle Bracket is done in the same Manner.

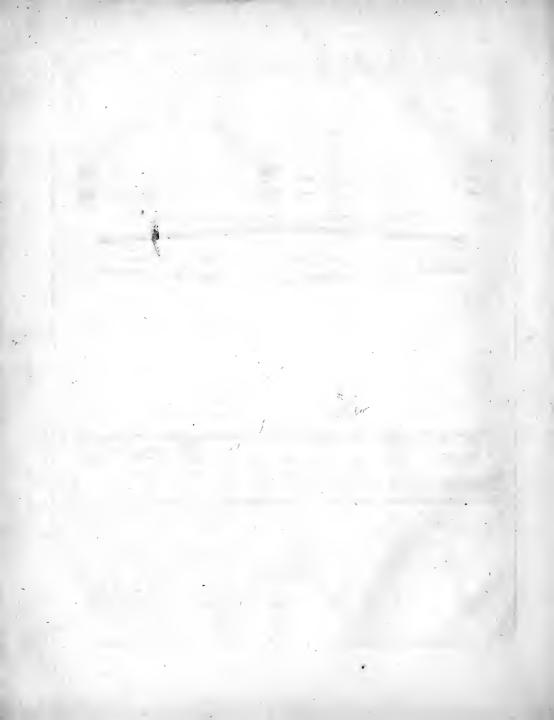
To describe a Circular Soffit in a Circular Wall, as in B. Draw the Cord Line of the Arch, or Base Line so called, to touch the Arch of the Wall, then draw the Semi-Circle and divide the Round of it in a Number of equal Parts as here into 9, but the more Parts the truer the Work, and draw them to the Arch of the Wall, then stretch out the Arch Line at Length as in e, and transfer the Parts that are between the Wall and Base Line, as 1, 2, 3, 4, 5, 6, &c. to e, which gives the Edge of the Soffit or Pannel.

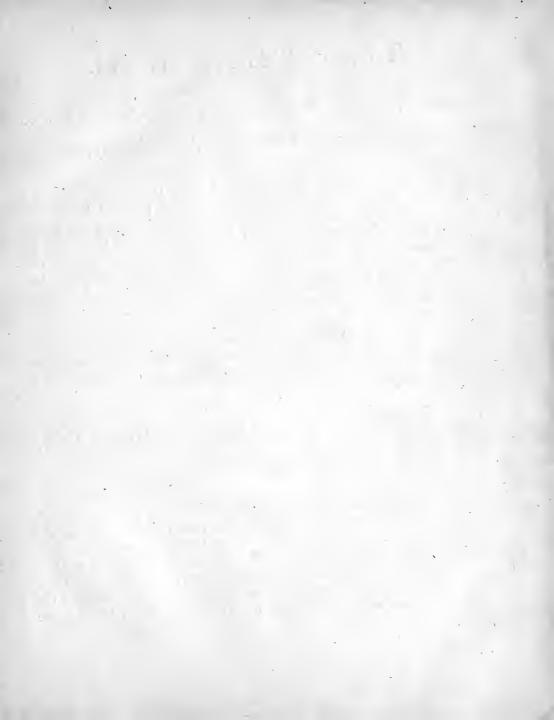
To describe a Circular Soffit in a strait Wall on flewing Jambs. Continue the flewing of the Wall till it meets at b, then set the Compasses at b, and draw two Arches to the Thickness of the Wall, then put on the Girt of the Soffit c d, which gives the Length of the Soffit and Edge of ditto.











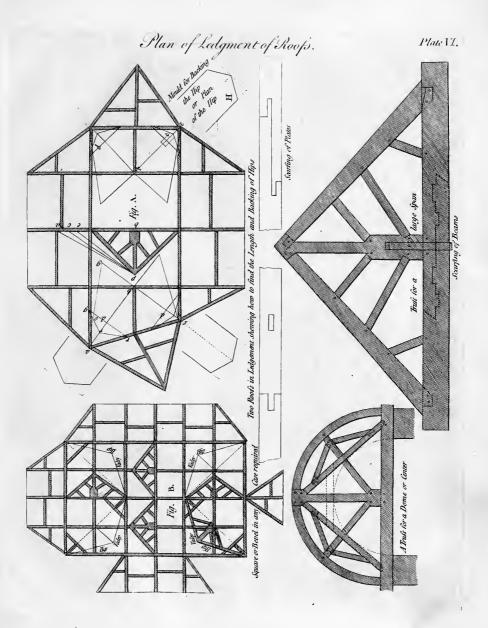
To face PLATE VI.

Figure A. Plan and Ledgment of a Roof, shewing how to find the Length and Backing of Hips, Valley, &c.

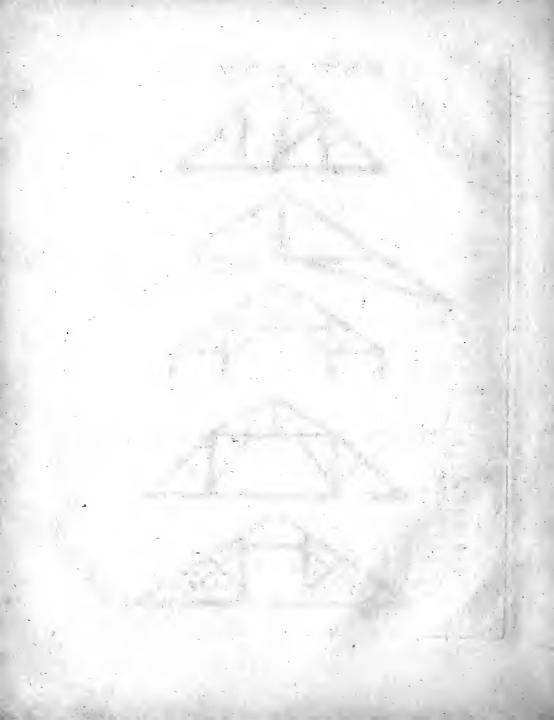
O find the Length, take the Base Line of the Hips ab, bc, and be, and set them on the Base Line of the principal Rasters, as ba, bc, be, and draw Lines from the Top of the Raster to ace, which is the Length of each Hip. Or the Length may be sound by setting up the Perpendicular from the Base Line of the Hips, as bg, and draw the Line ga, is the Length of the Hip. To Back the Hip, lay down the Thickness of the Hip at the Angle of the Plan, as H, and draw Lines to range the Plates, will shew how much Wood is to come off in the Backing; that is, the Mould must be a Piece of Wood as thick as the intended Hip, and cut it to the Splay or Pitch of the Hip at the Foot, setting it on the Angle of the Plate in the Direction of the Hip, mark it under by the Side of the Plate; gives the true Backing in any Case required. A very sure and safe Way for the Backing.

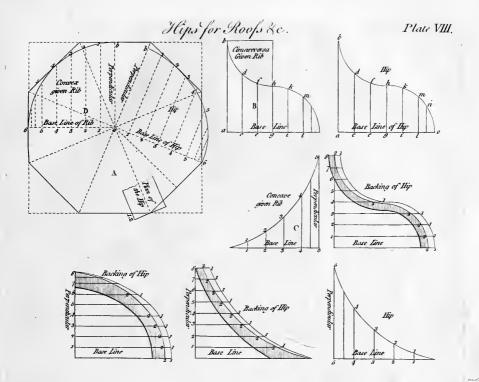
Figure B is the Plan of an M Roof, with Hip and Valley in Ledgment, &c.

Note, The Back of the Hip is found another Way, as in the Plan A. by drawing a Line at Right Angles, cross the Base Line of the Hip, as r d g, or on any Part of the Base Line, and set one Foot of the Compass at d, and extend to the nearest Part of the Hip g a, and turn it on the Base Line, as at r, then draw the Lines from the Point r to g r, on the Edge of the Plate, which is the Backing of the Hip required. This will do in any Case, square or bevel.

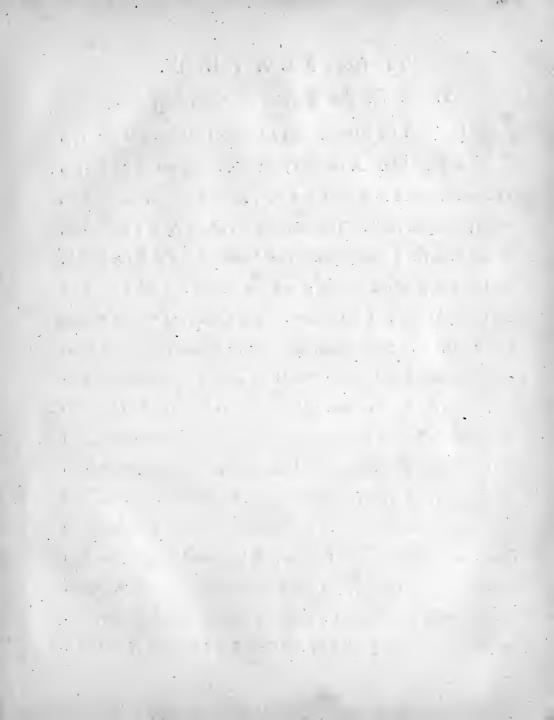


CANA





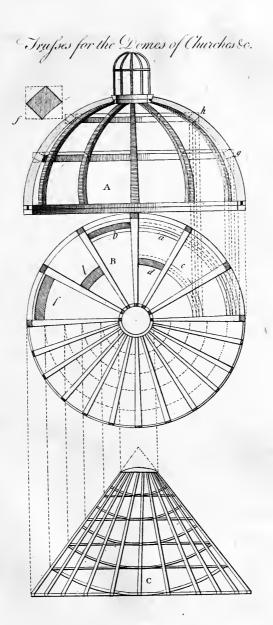
The manner of finding the Lenoth and Backing of Auror Line Hips in any Case required. Suppose the Octagon, Plan A.w be Roofd with the Ginarcoava B.or the Concave C.or the Convex D. in the Plan. Divide the Base Line of the given Kib into any number of equal larts and drun Lines from those parts on the Base Line to the Back of the Rafter ab.c.d.ef. gh.ik.l.m. and all the others as 11, 22, 33, and so on. Then the Base Line of the Hips must be divided into the same number of Parts and Lines drawn up at Pleanure as a b.c.d kc. from the Base Line of the Hips, then take the several Hachts of the given Ribs and set them on the Hip Lines, then true them through those Points & d.fh.km.no. that will give the Cave or Edge of the Hip and the same for all the others and fir the Backing of the said Hips, there is a Plan of the Hip at the Angle of the Plan A. which shows how much Wood is to be Cutt off each side of the Hip. Divide the Perpendicular Hight of the Hips into any number of equal Varte, and draw Lines Varallel with the Base Lines of the Hip. Then take the Distance from the Plan of the Hip to the Side of the Plan A. as 12 and put them on the Hips, as 12,12,8 c. which gives the true Backing in any Case required. Note when the parts are Set on as Bottom and Top of the Hip the Mould may be shifted and markid which shows the

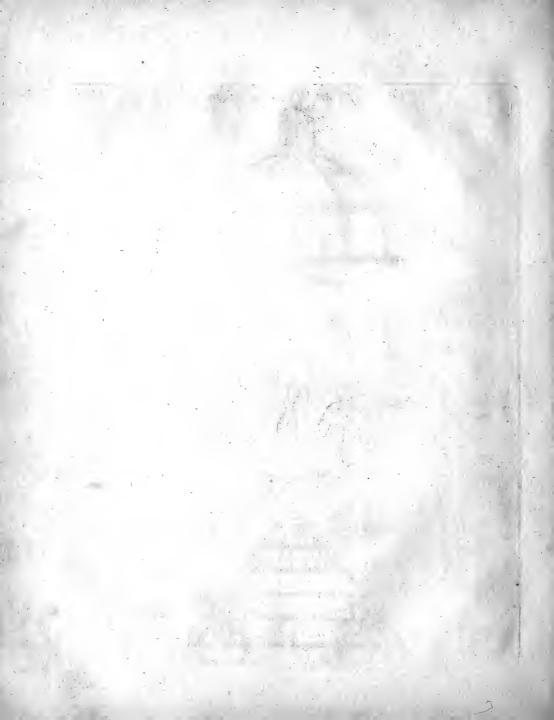


To face PLATE IX.

Trusses for the Domes of Churches, &c.

Is a Truss for a Dome, with a Lanthorn or Cupola at the Top, to give Light. B. the Plan; the Kirb or Plate to be in two Thicknesses, which is likewise best for the Ribs, and for the Kirb on which the Cupola stands. The Curve of the Dome A. is a Semi-circle, or will ferve for a Semi-elipfis. The Moulds f and c in the Plan B, cut the Sweep of the Purlines; and the Moulds b a and c d are for the Top and Bottom of the Purlines. C. is a Cone or Lanthorn to light a Stair-Case, &c. the horizontal Bars must be squared in the same Manner as the Purlines in A. The Mould for cutting or squaring the Purlines, is like the bottom Mould f in B. fo that if the Purlines be cut to the Thickness required as in the Section A, and also to the Mould f, then a is the Mould for the Bottom and b for the Top, as appears by the Lines let fall to the Plan B from the Purlines g and h; then C in the Plan is the Top and d the bottom Mould. l is the fweep Mould for the Top of the By this Rule the Purlines may be squared, which completes the Work. If the Plan B, the Ribs and Purlines are in Size and Number, as the Cone C, it will do for a Lanthorn or Light to a Stair-Case, &c. the Manner of squaring the Ribs and Cross Bars is the same as the Dome.





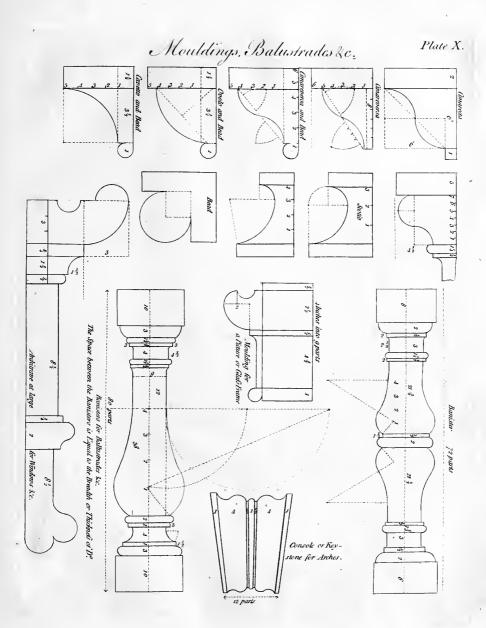
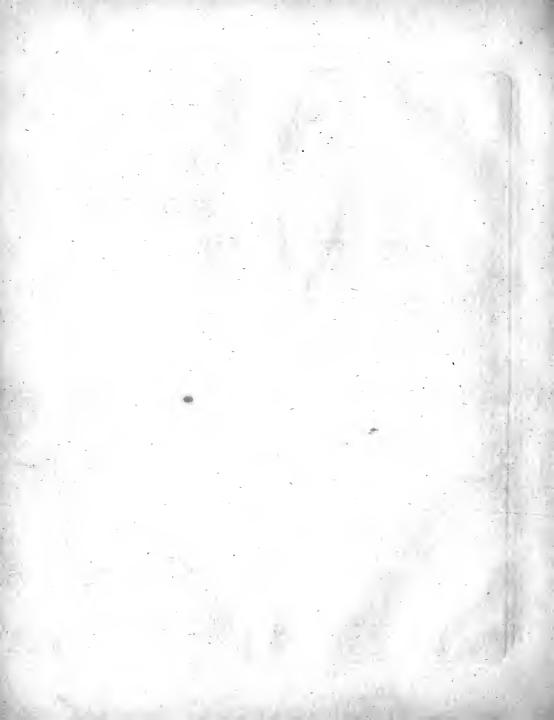
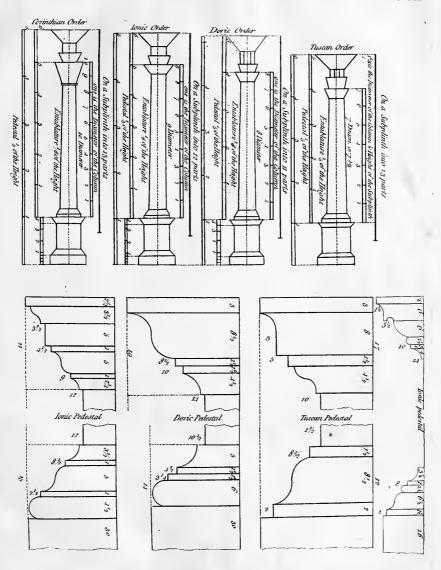
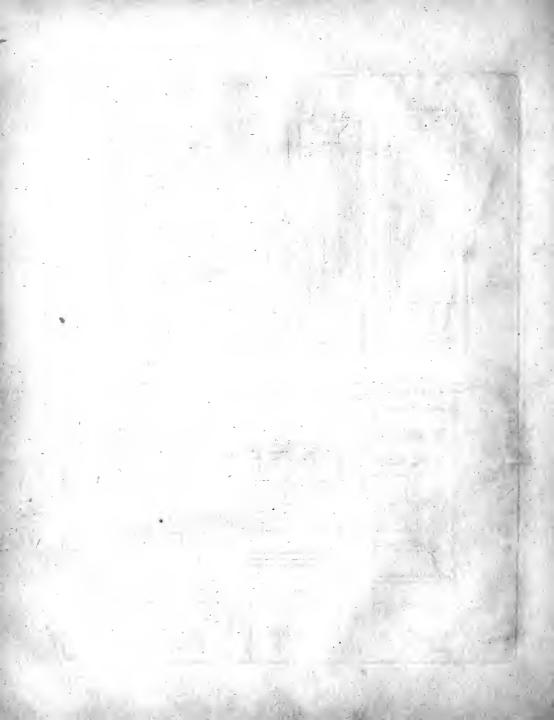
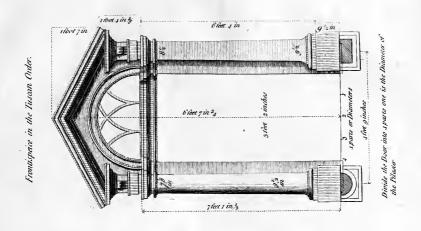


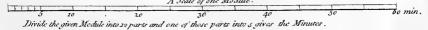
Plate M

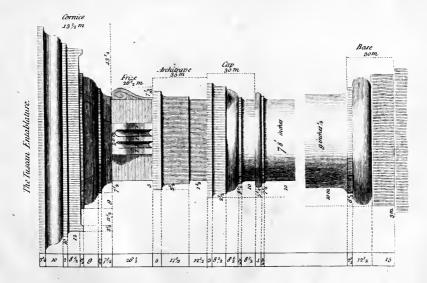


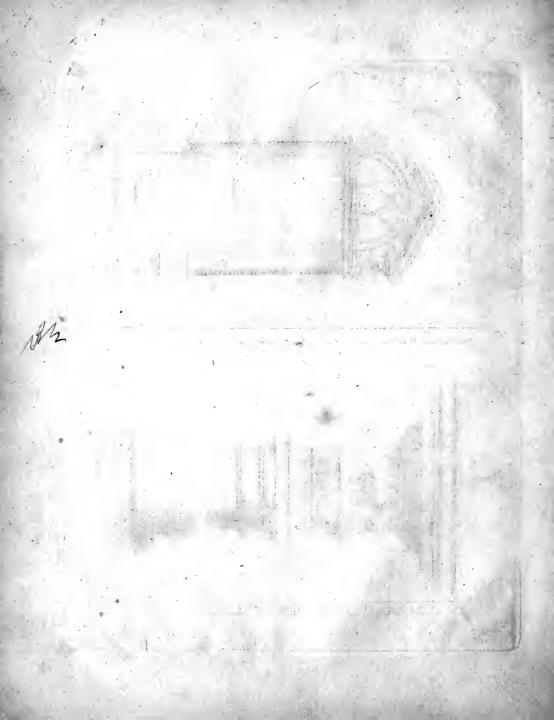


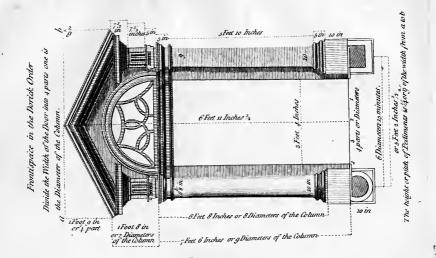


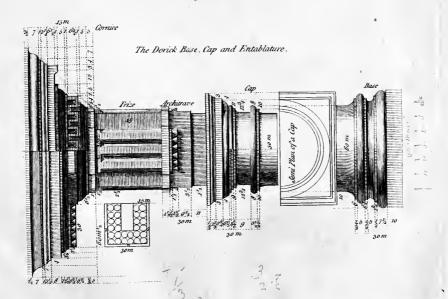




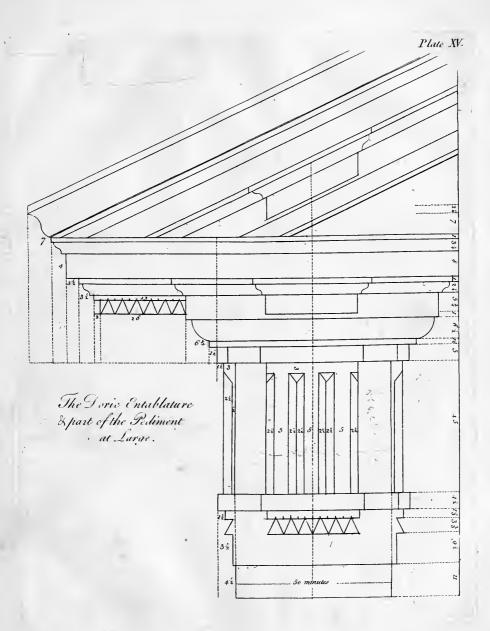


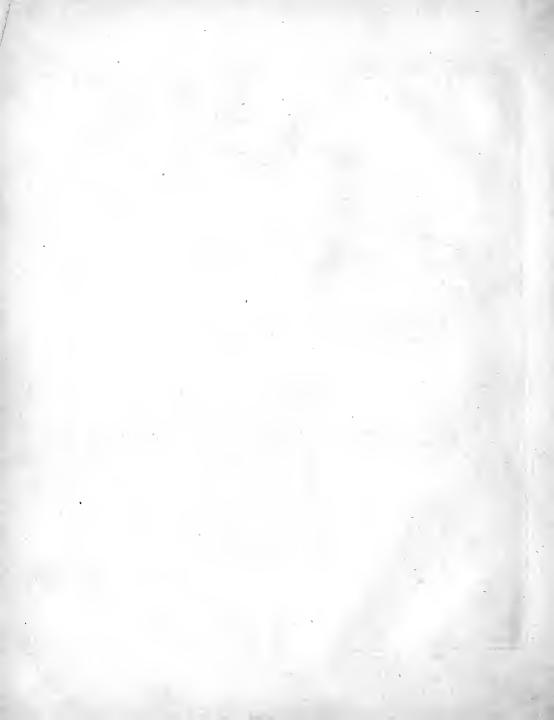


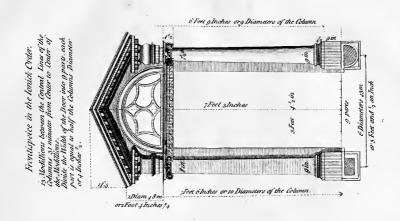


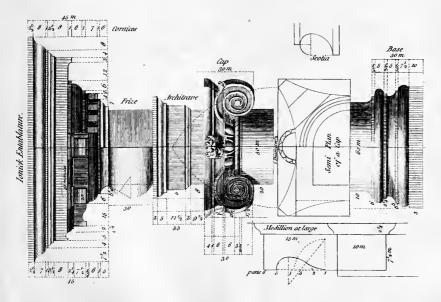


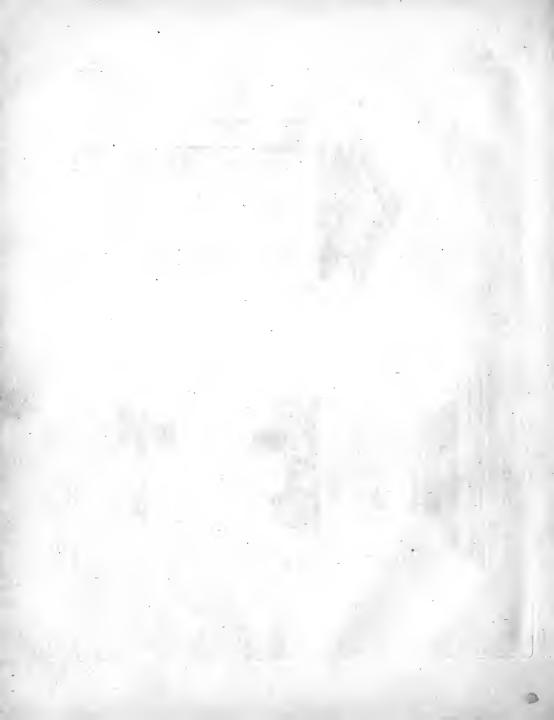


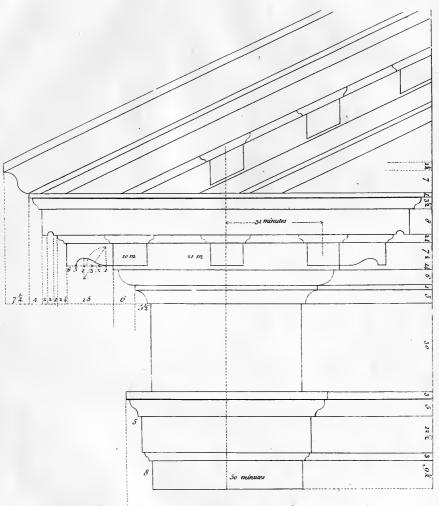




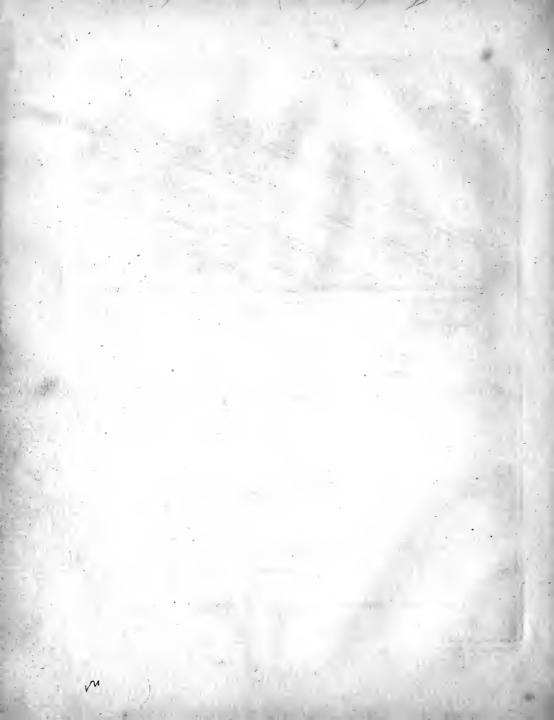


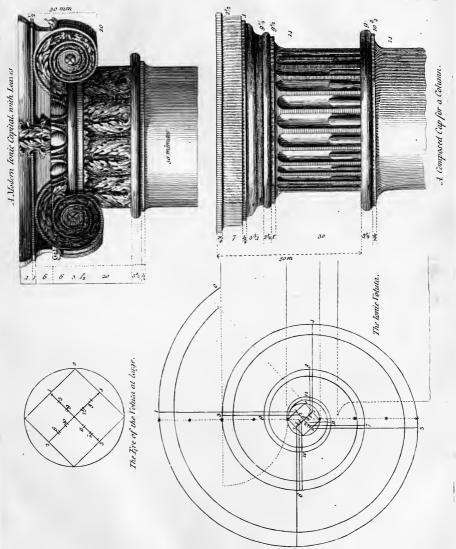




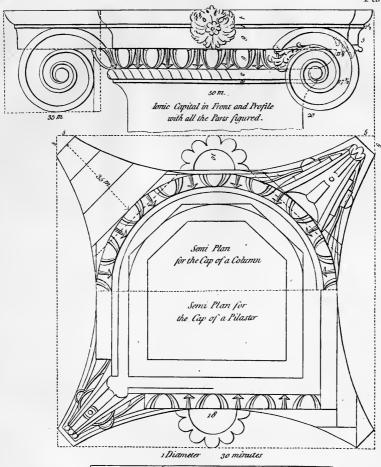


The Sonic Entablature with part of the Pediment at Large.

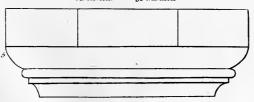


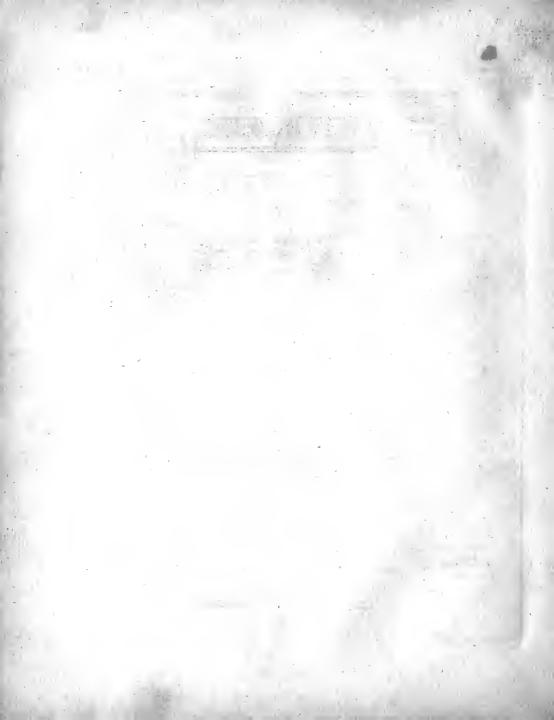


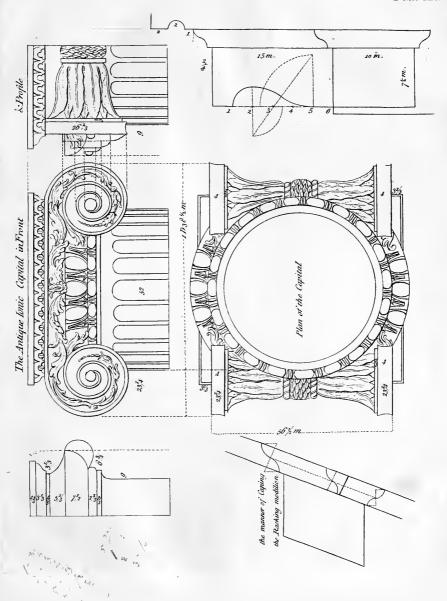




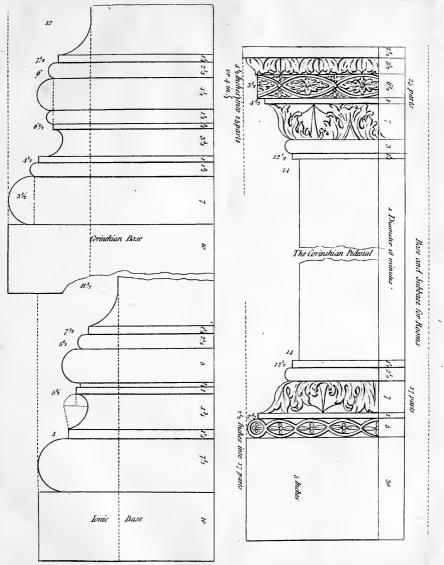
The Body of the Cap with the Mouldings worked before the Horns are Glued on.

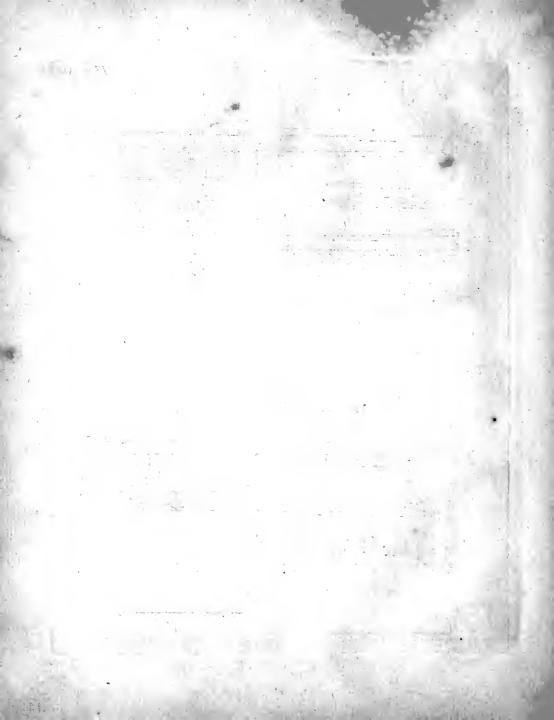


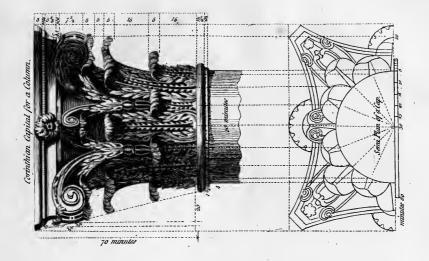


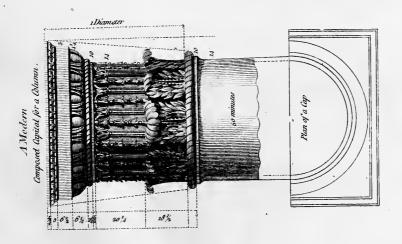


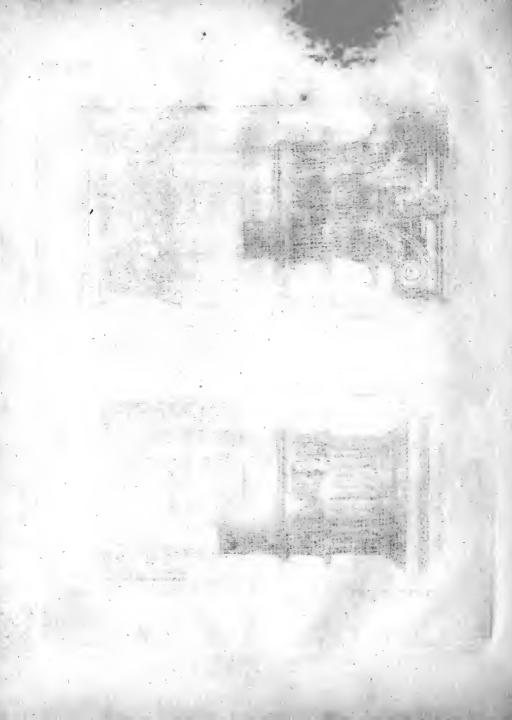


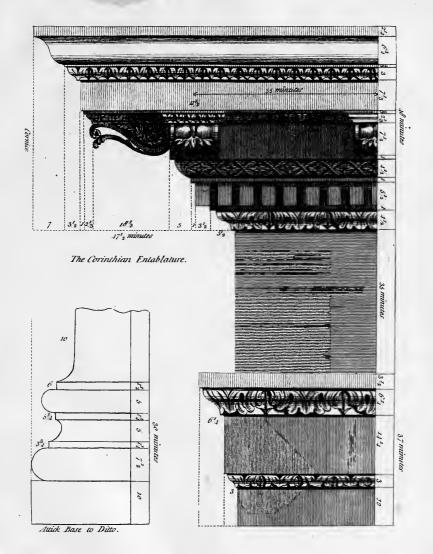












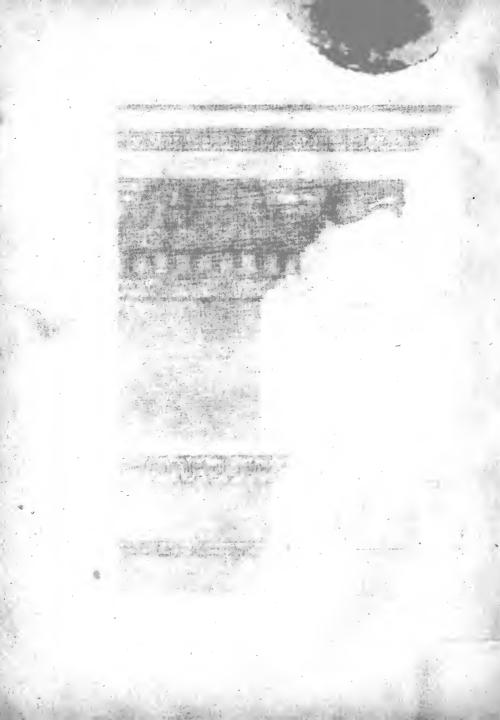
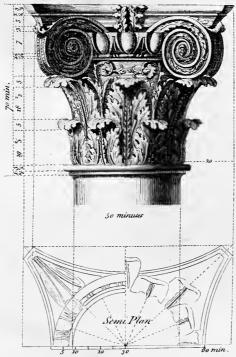
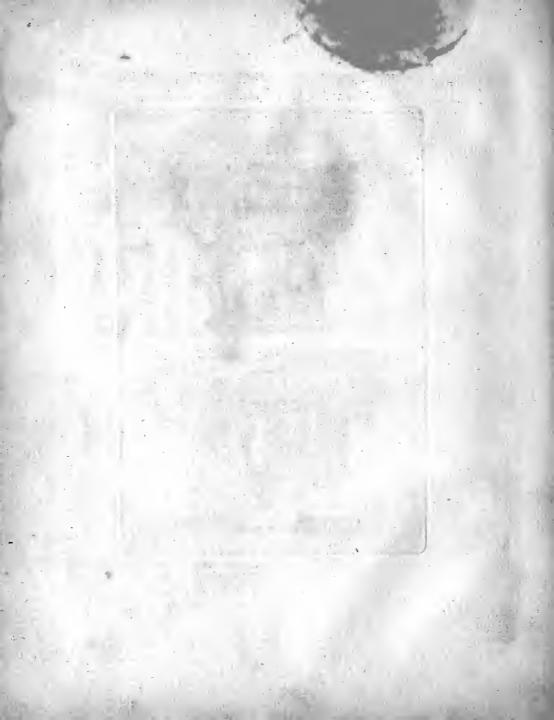


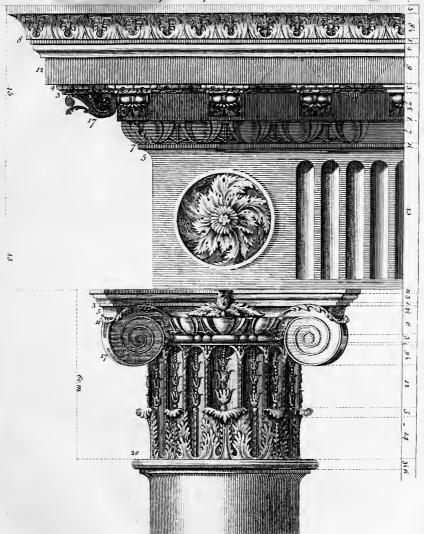
Plate XXIIII

The Intient Composite or Roman Capital



The Proportions of Composite Entablature are the same as the Corinchian.

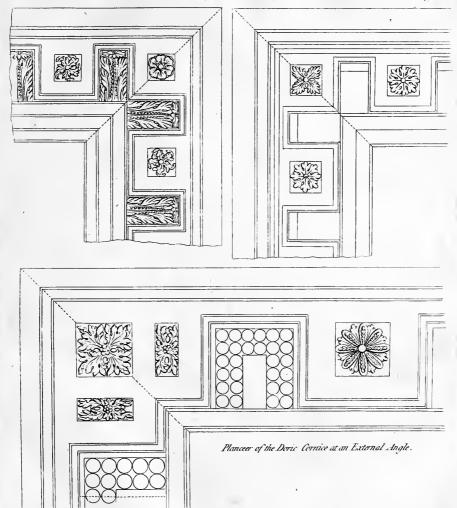


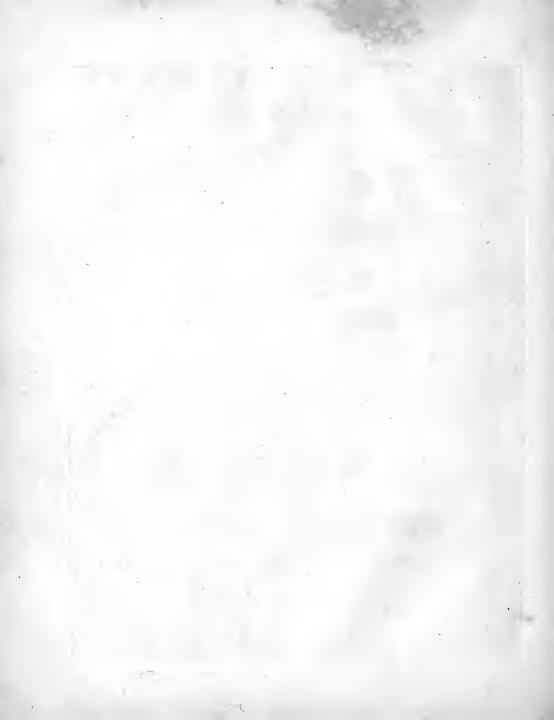


may be used with the Attic Base.



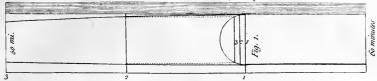
Plancer of the Corinthian Corrace at an External Angle. Plancer of the Ionic Corrace at an External Angle.





Glucing of Columns.

This Column Diminishes from one third of the Height.



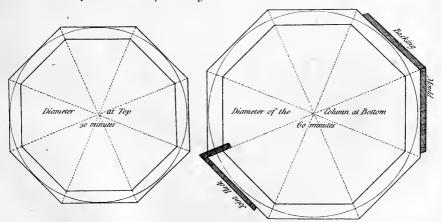
The manner of Ghiering up Cohamns & Diminishing them

This Column Diminishes from the Bottom to the Top

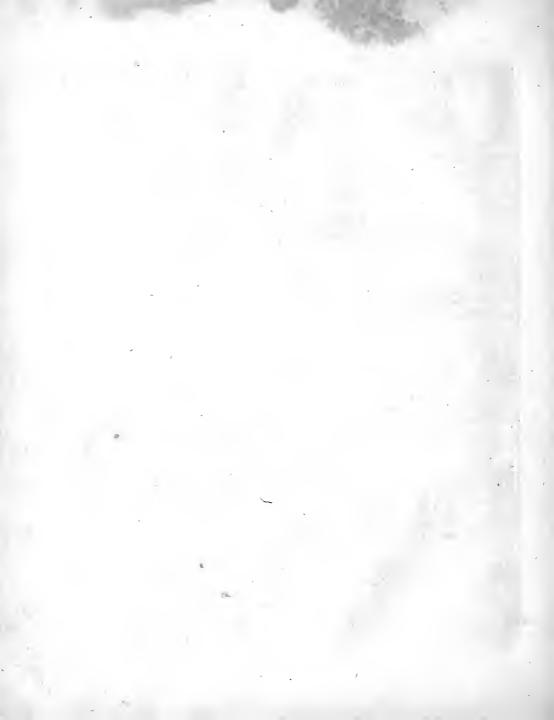


When Columns are fluted divide the Round or Circumference into 30 parts give three to a Flute and one to a Fills.

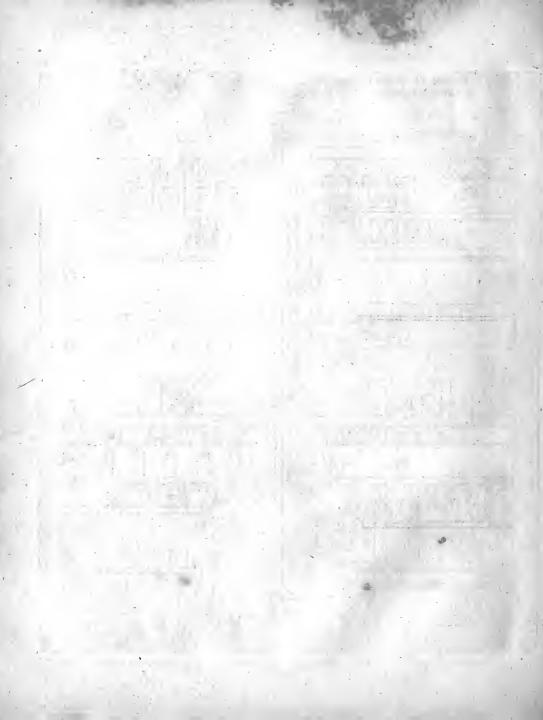
Diminish the Staves of the Columns on the Faces before they are Glued together, this is a very safe and sure way for making the Column.



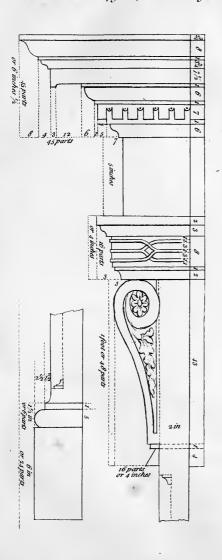
When Filasters are Fluted divide the Breadth or Diameter into 20 parts give one to a Fillet and three to a Flute.

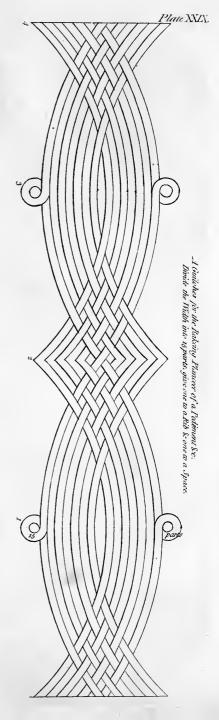


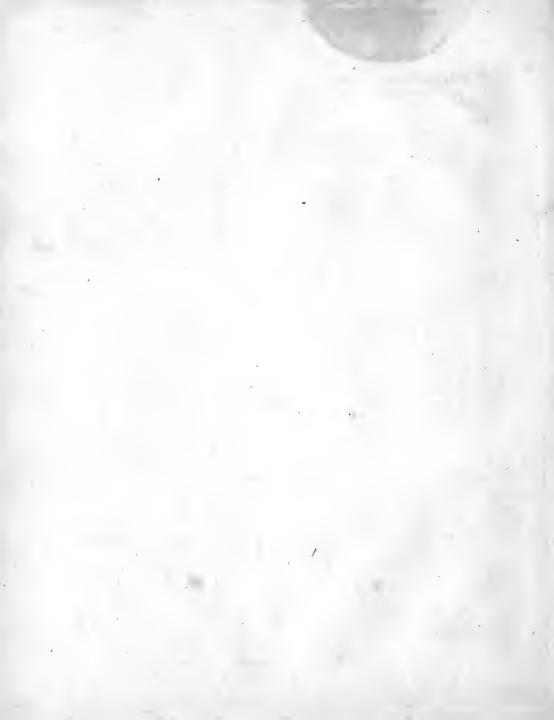
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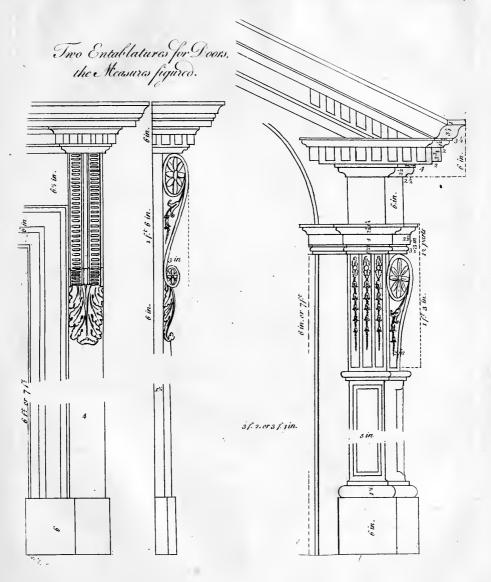


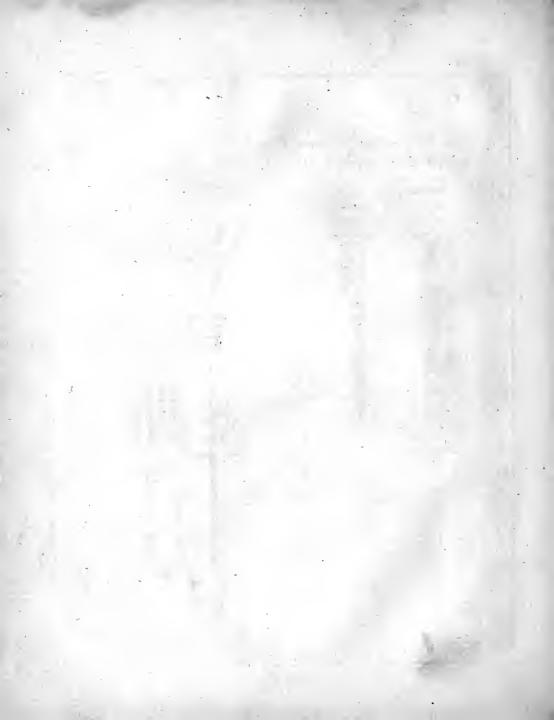
Entablature for Doors Windows &c. with all the Measures figured for Practice at large.

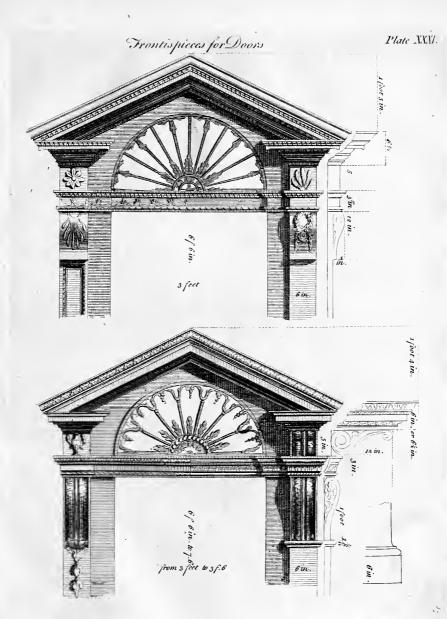


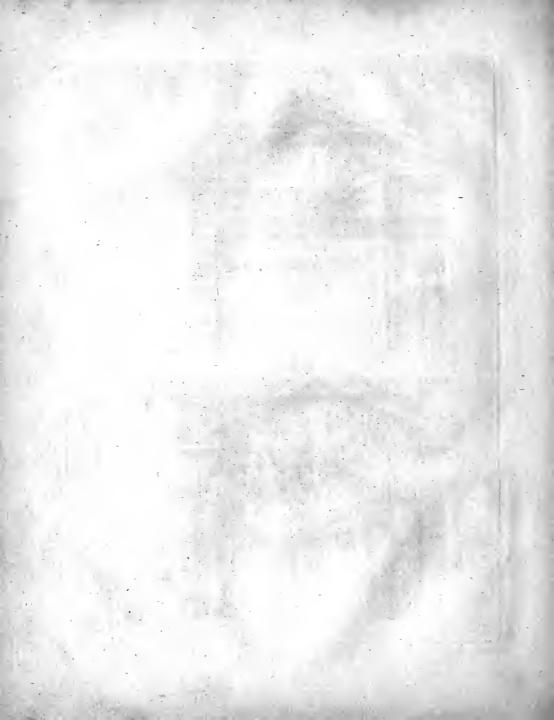




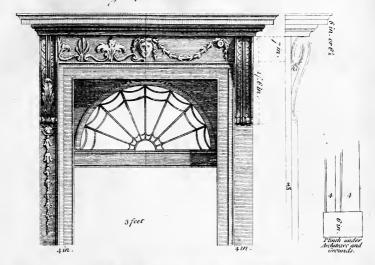


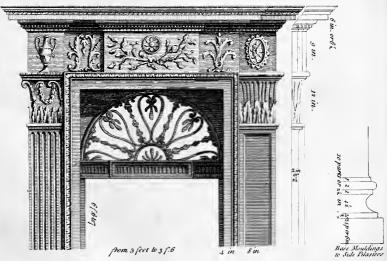




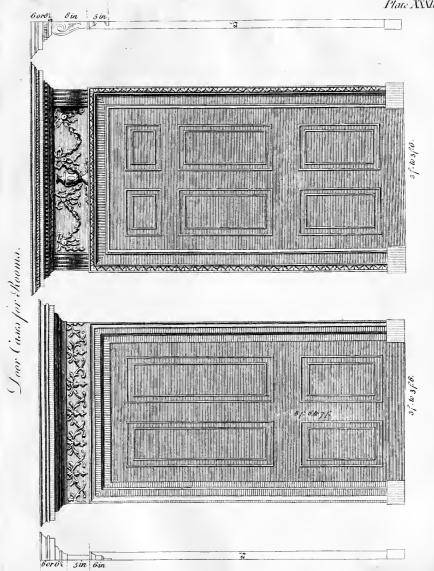


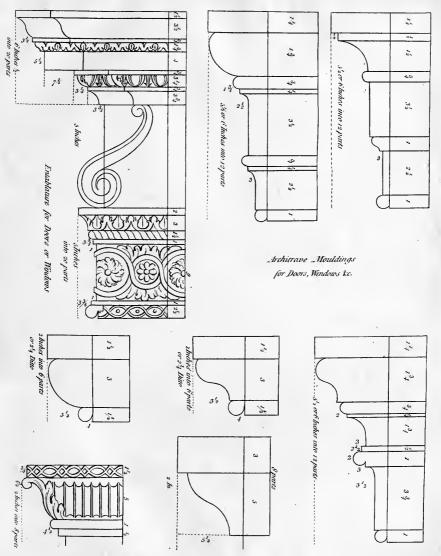
Designs for Door Cases.

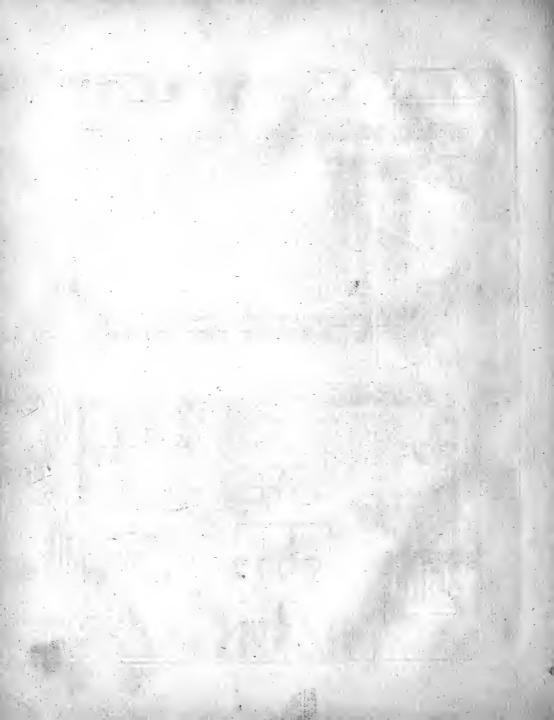


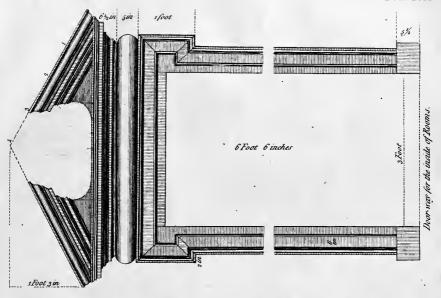


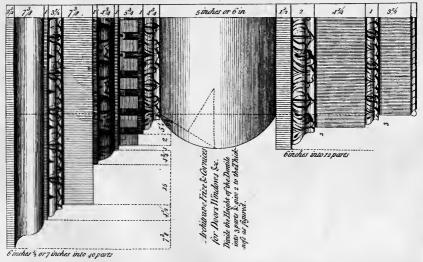


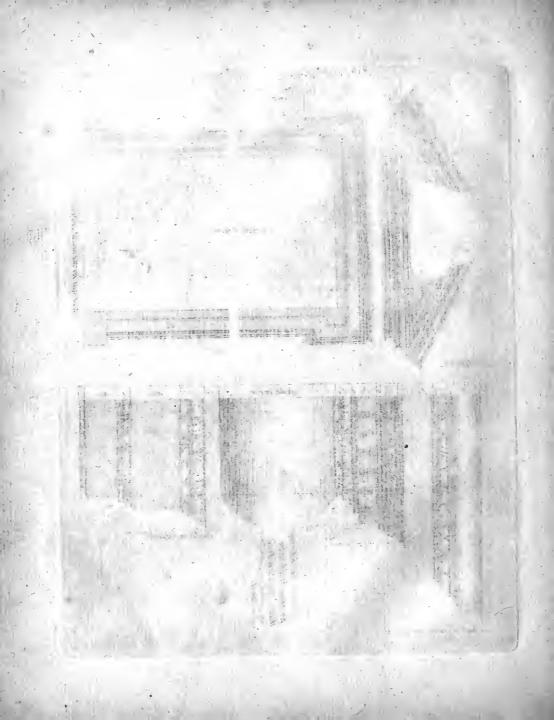












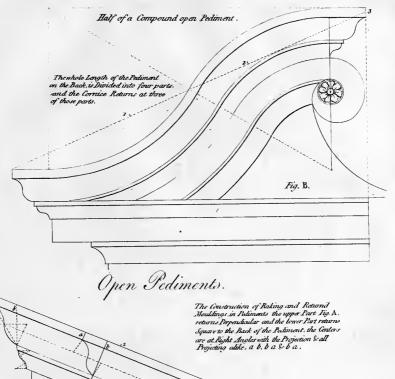
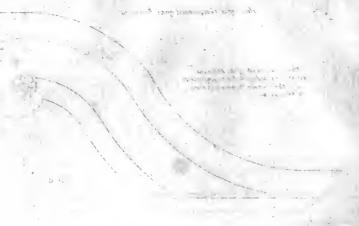


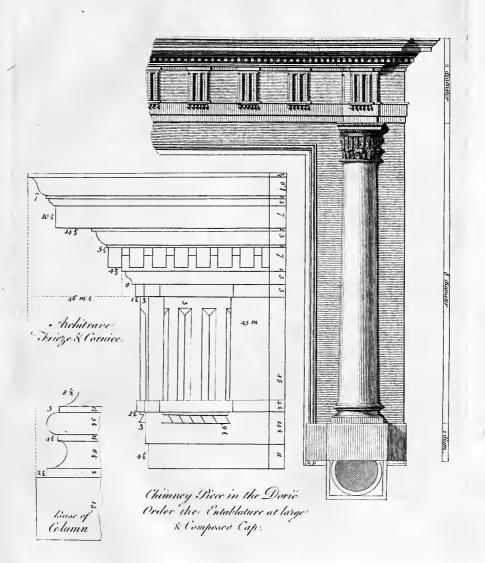
Fig. A.



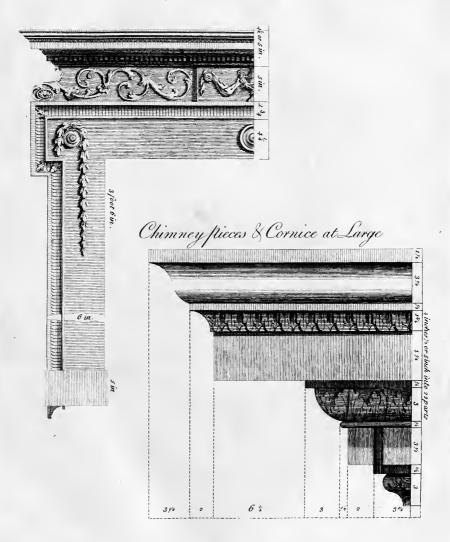
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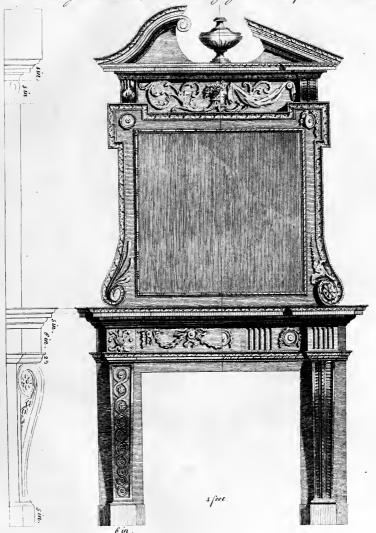




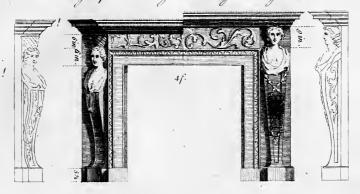
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The first control of the second of the secon

Two Chimney Piccos with open l'édiment, Glass or l'écture frames ornamented!



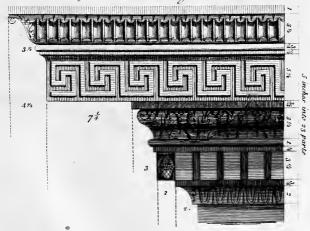
Two Dosigns for Chimneys with Caryattic Tigures.

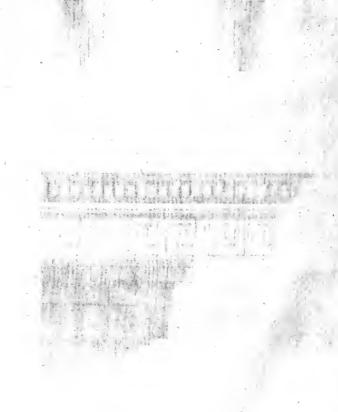


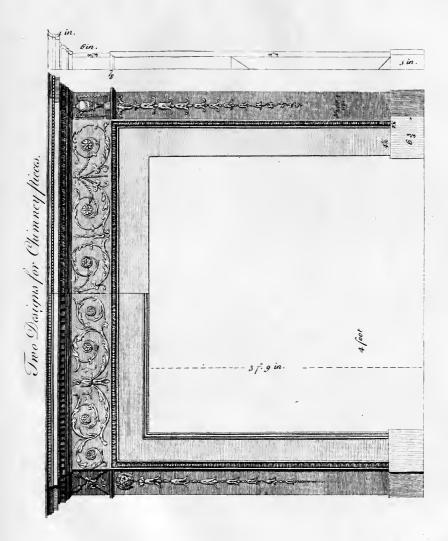


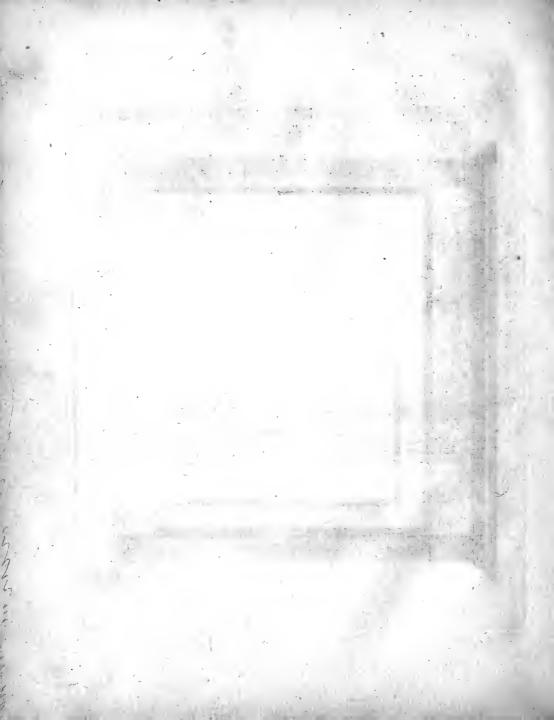


Cornice at large.

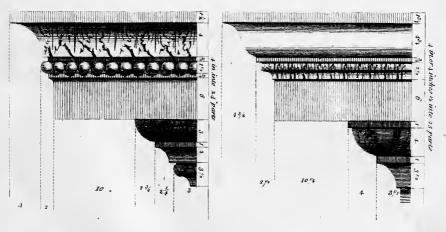


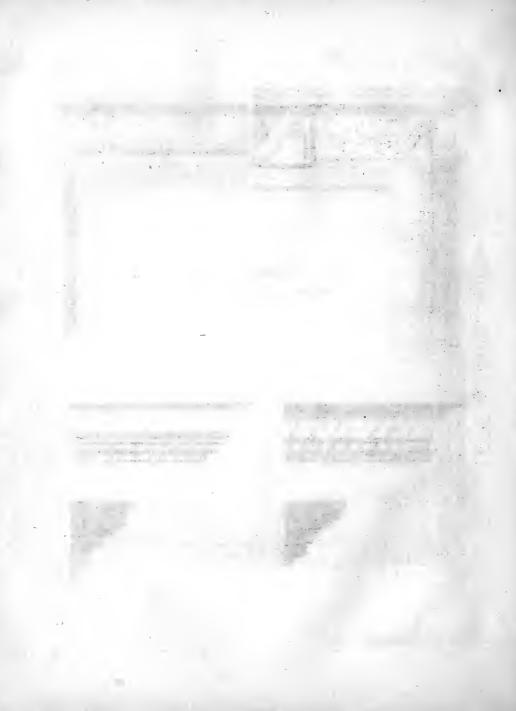


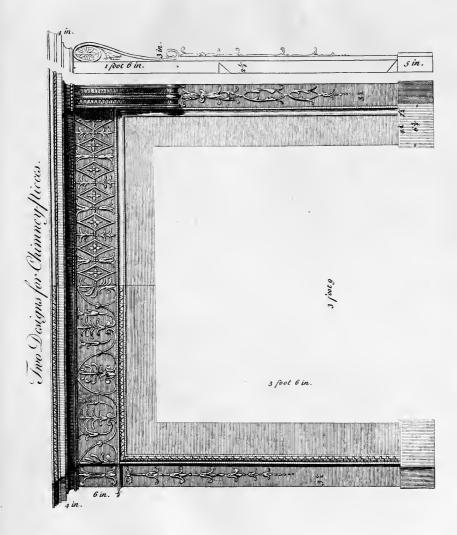


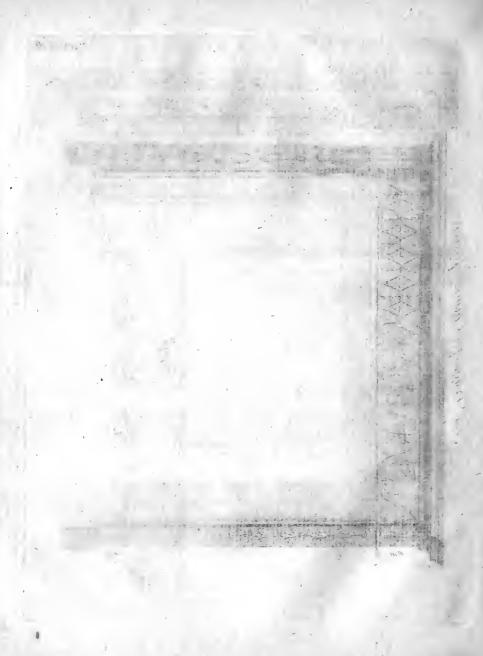


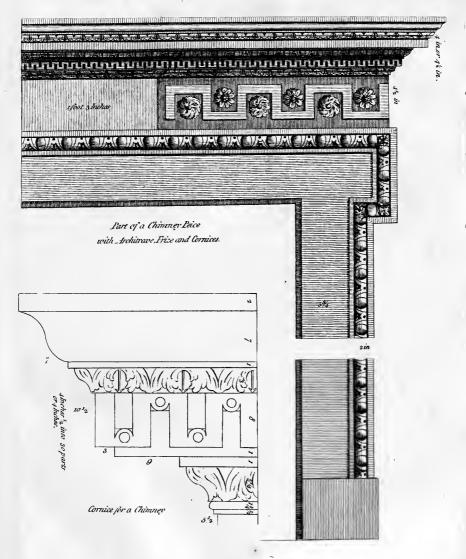


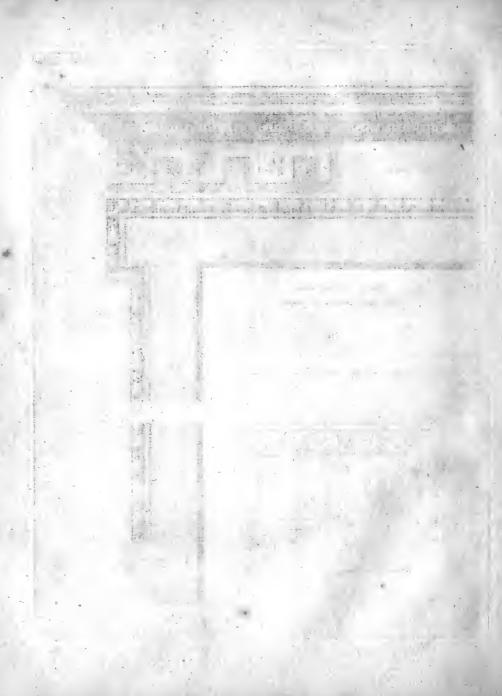


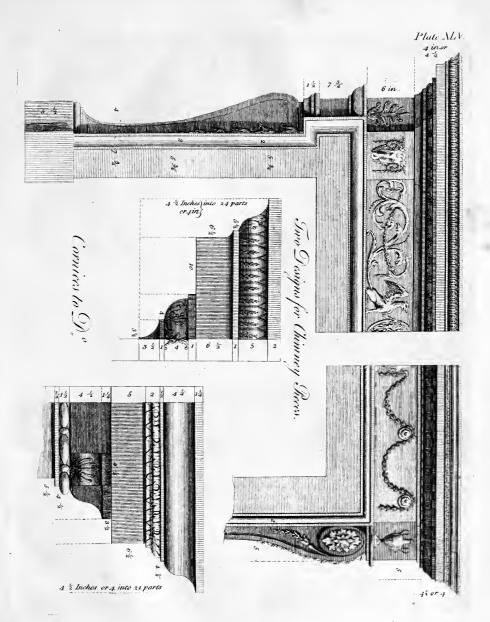


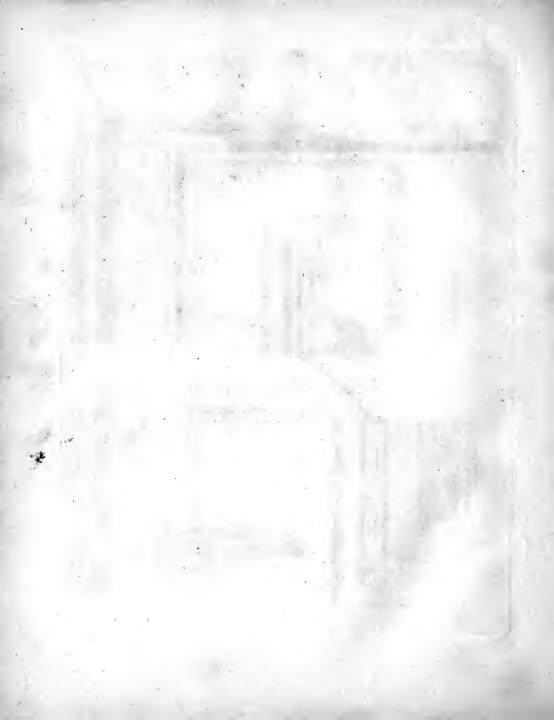


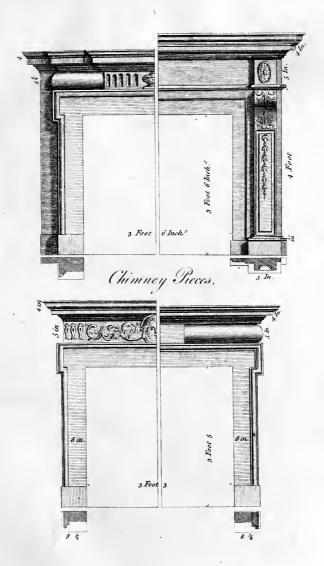


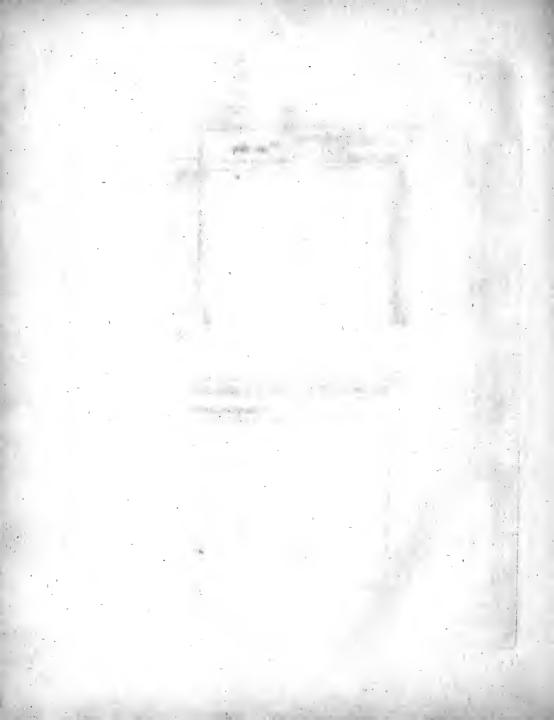


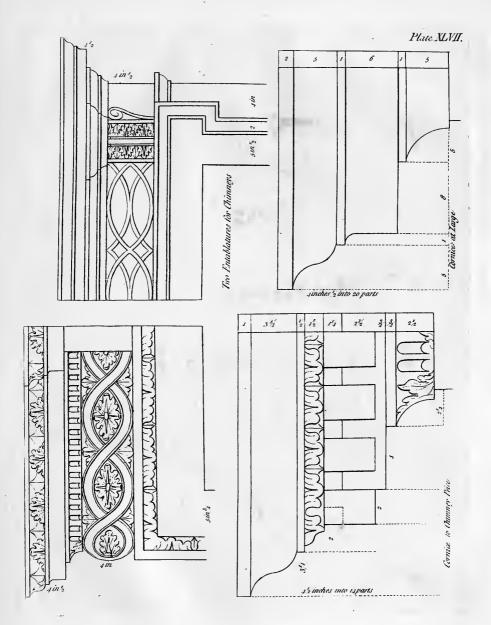


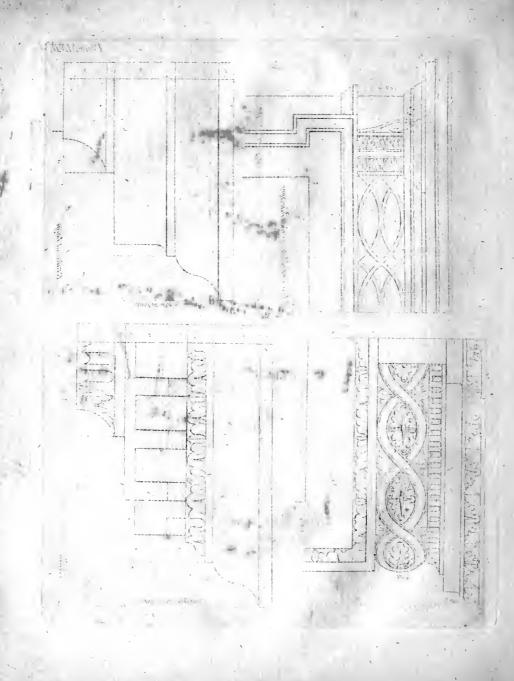


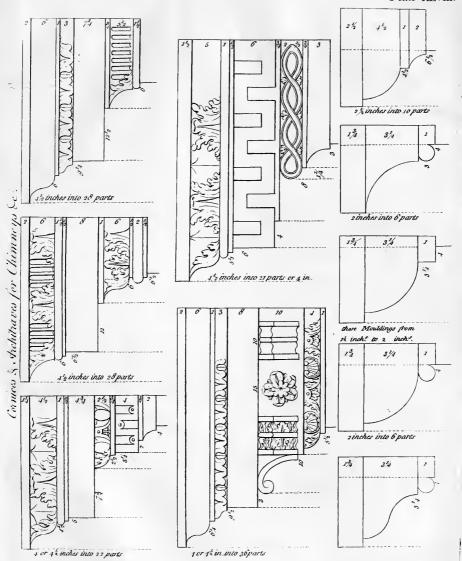


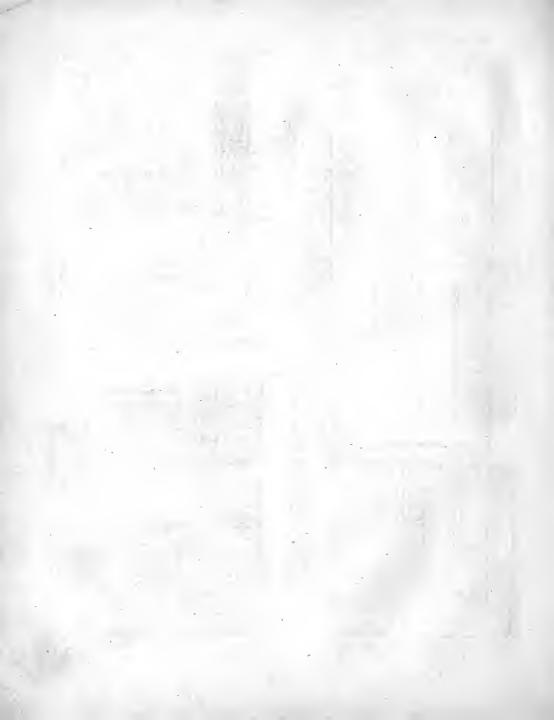




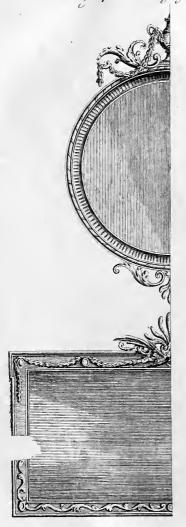


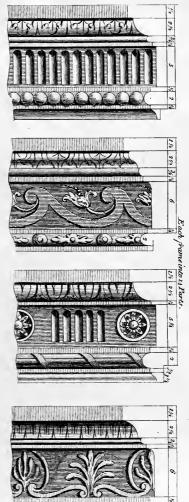






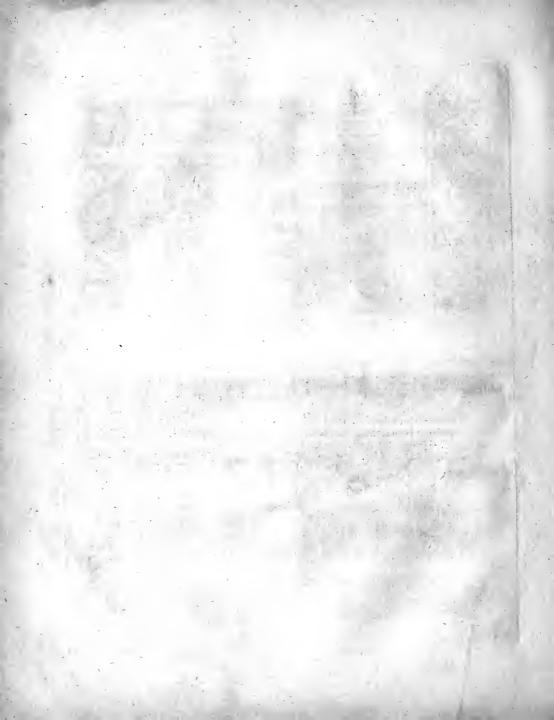
Mouldings for Looking Glass or Sicture Frames.

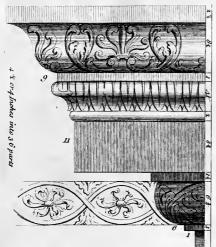


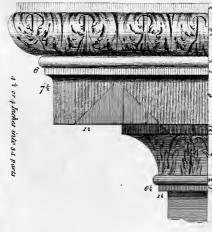




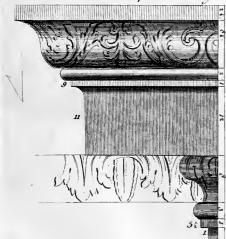
Ornaments,

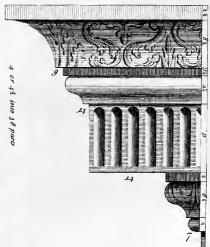


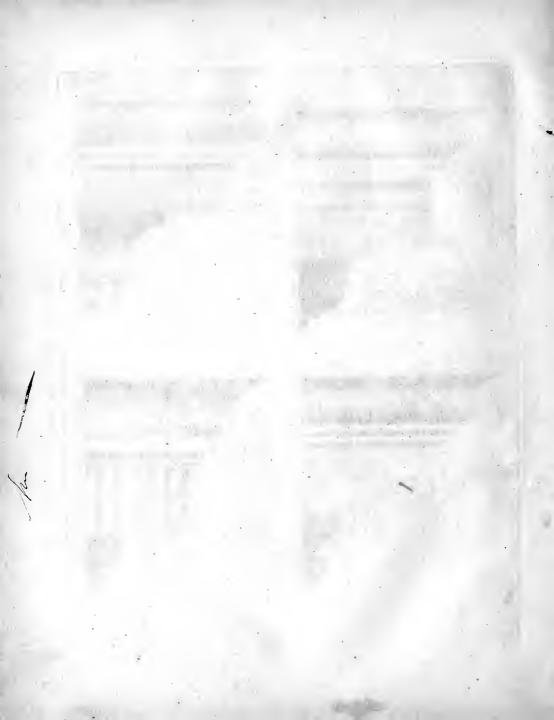


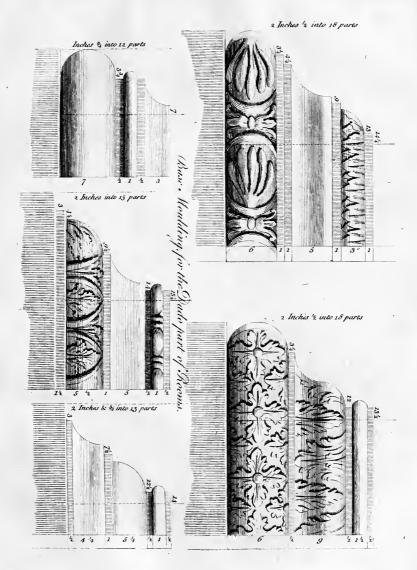


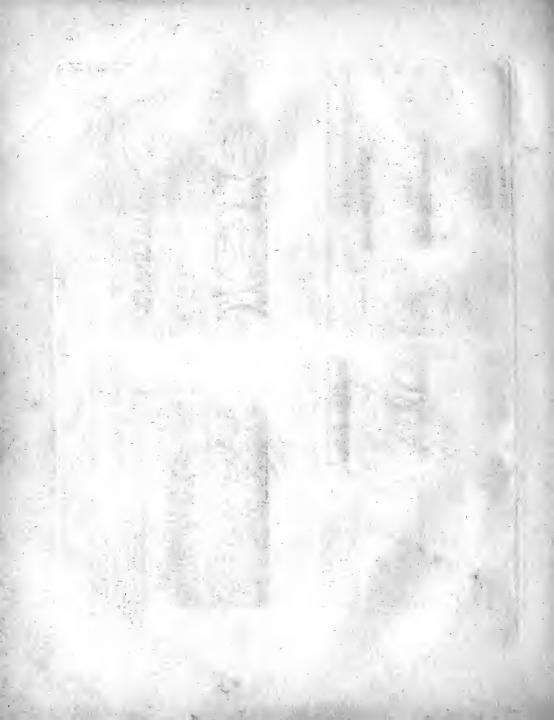
Cornices for Chimney Caps Doors or Windows &c.

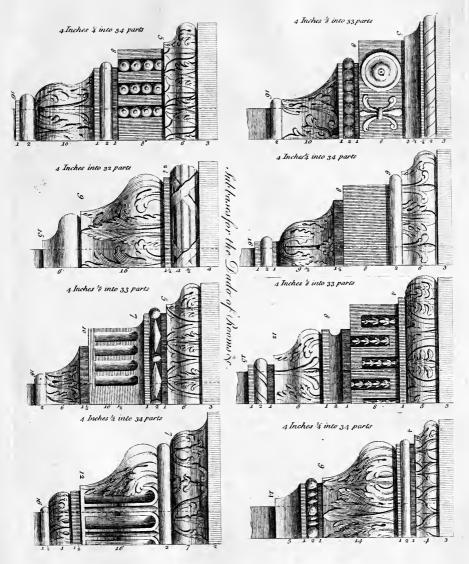


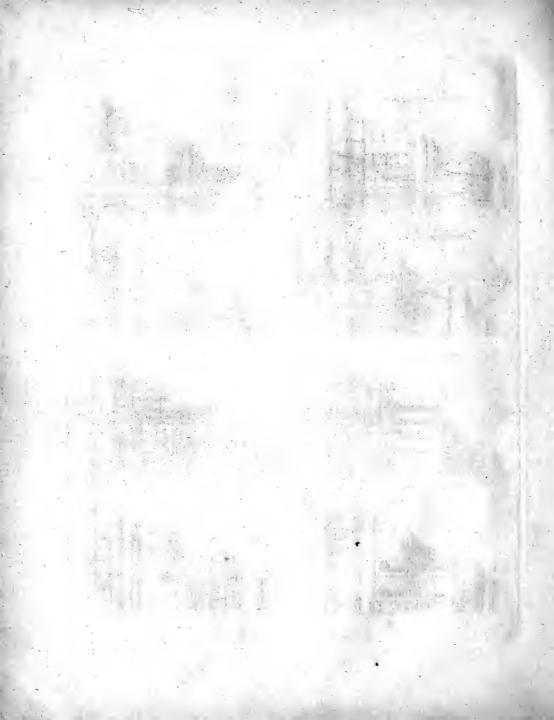




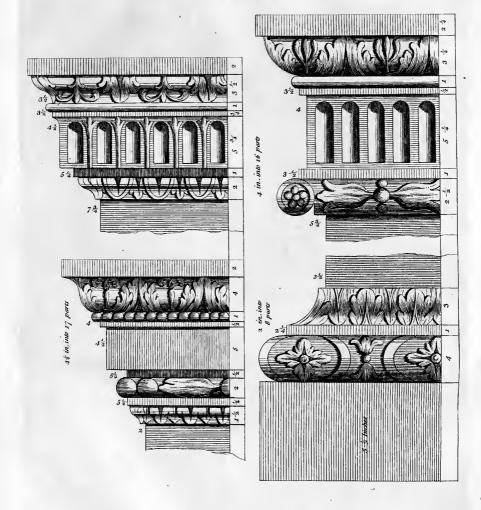


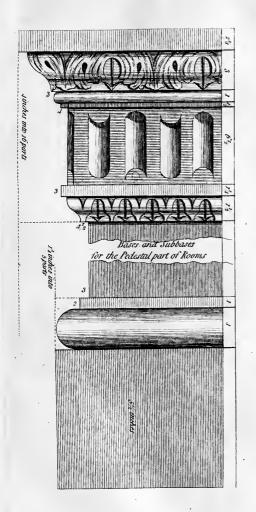


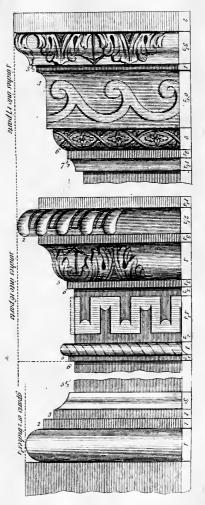


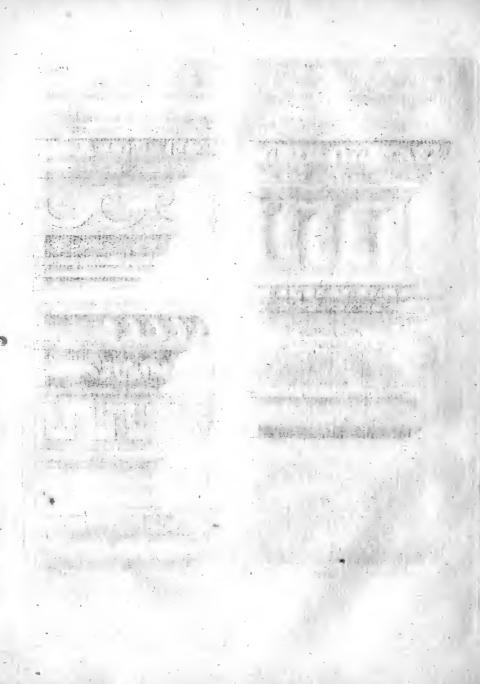


Base & Sub-base for Rooms.

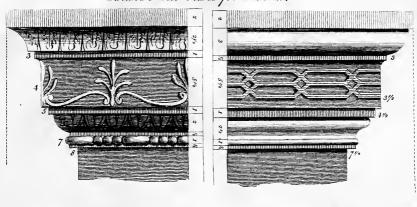


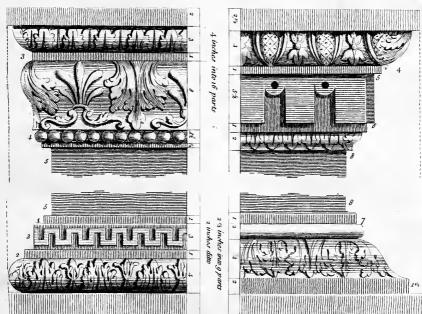




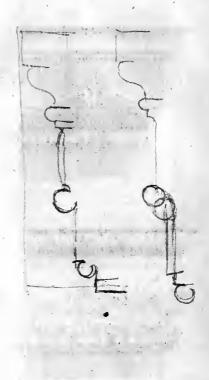


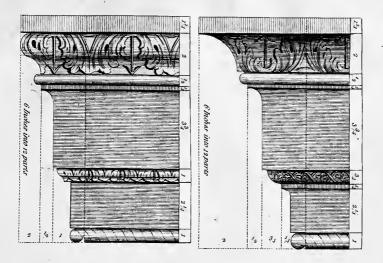
Bases & Sub-bases for Rooms.

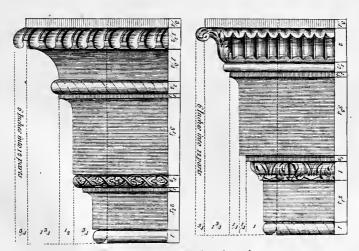




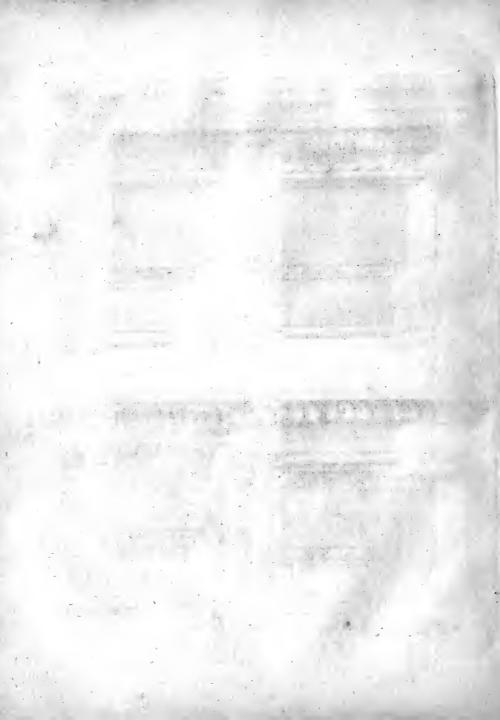
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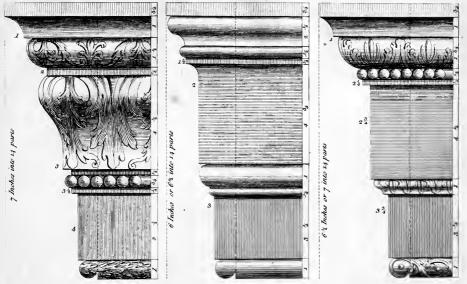




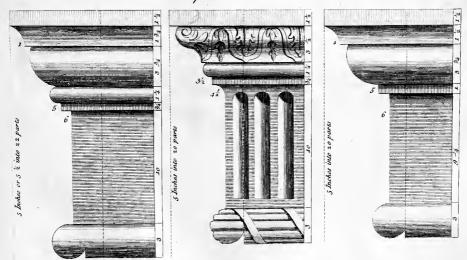


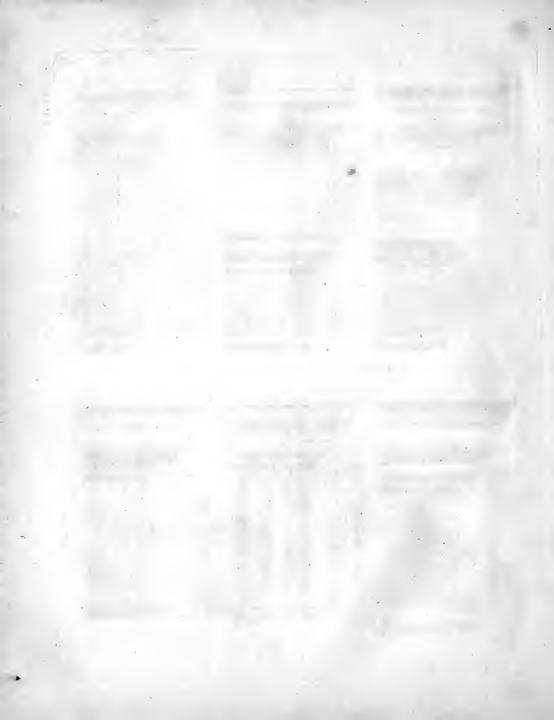
Architraves for Doors Windows &c. at large.

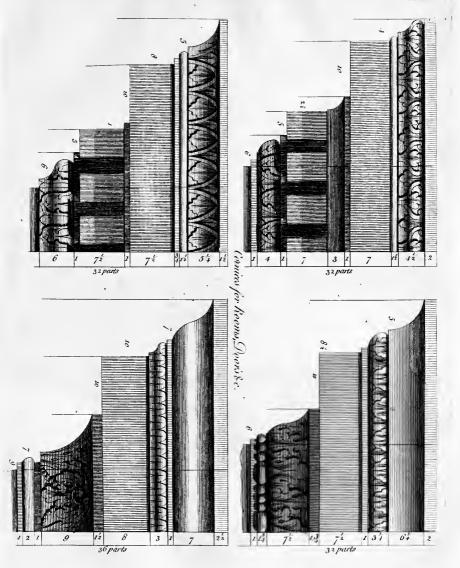


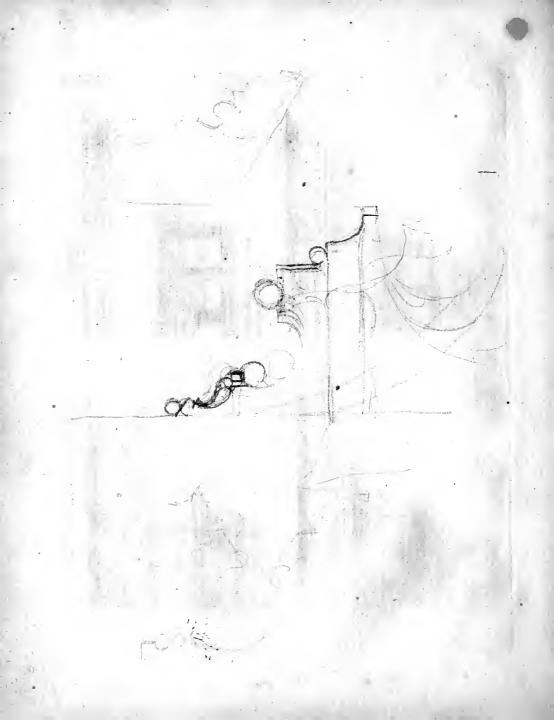


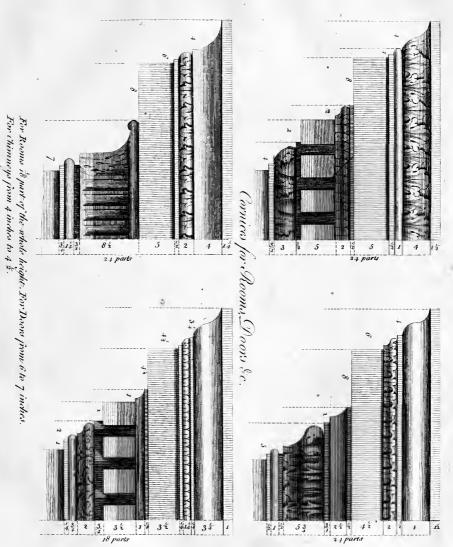
Architraves for Doors Windows &c.

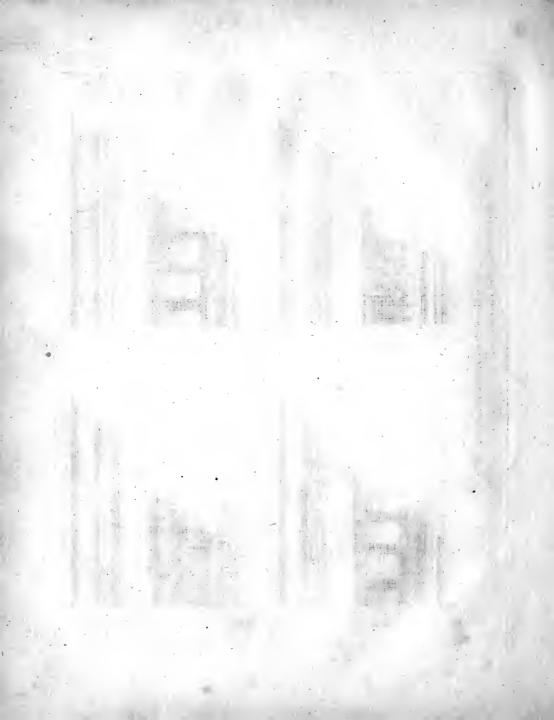


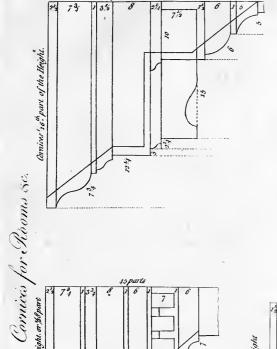


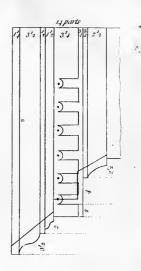


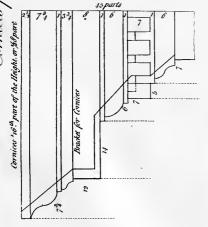


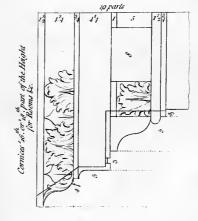


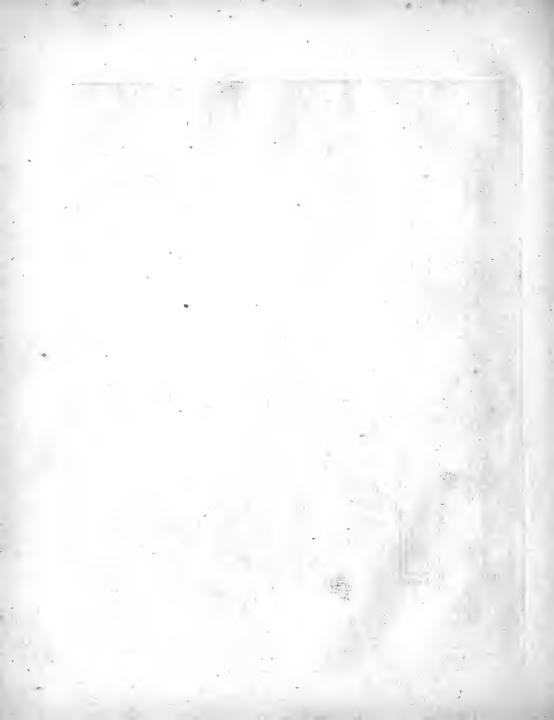


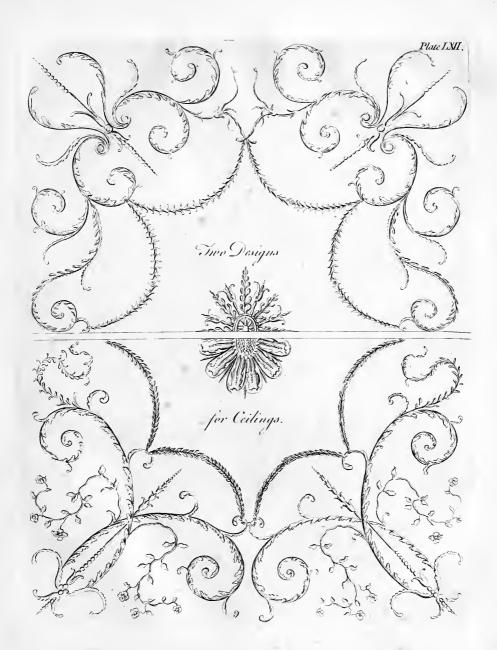


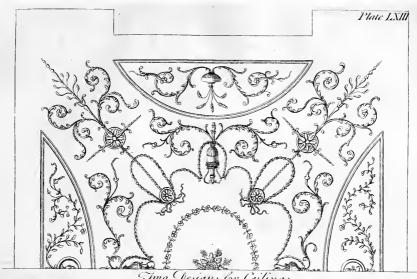


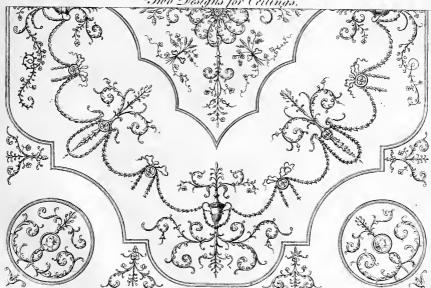


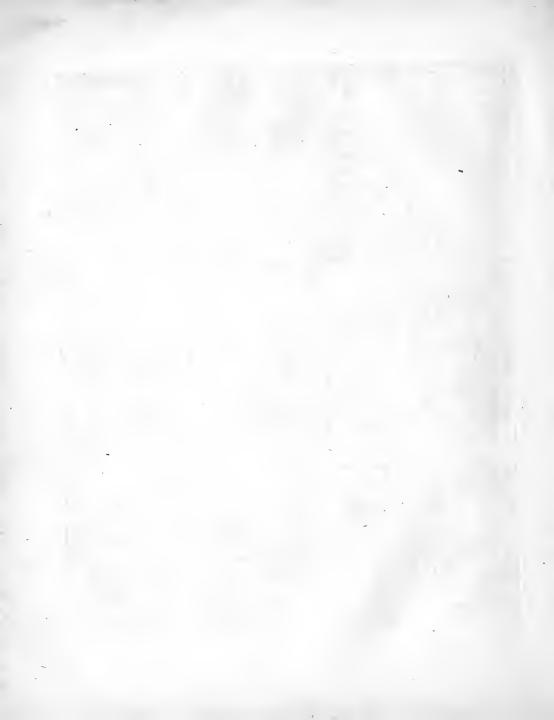






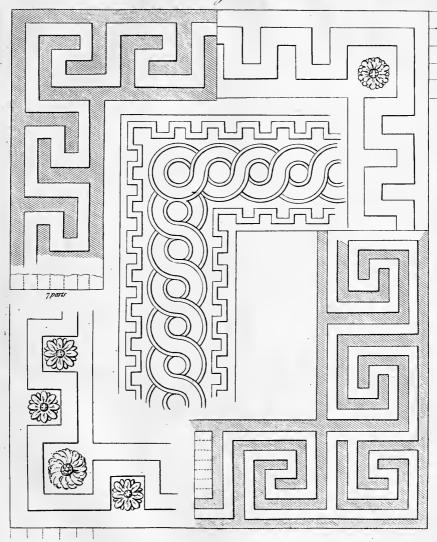


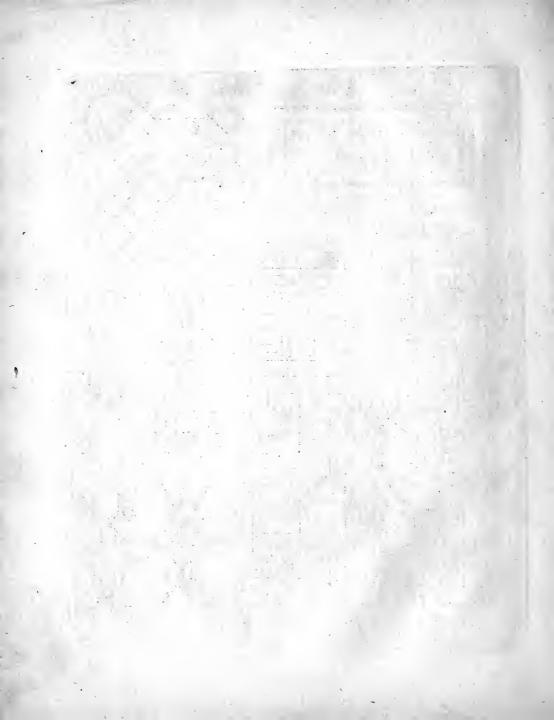


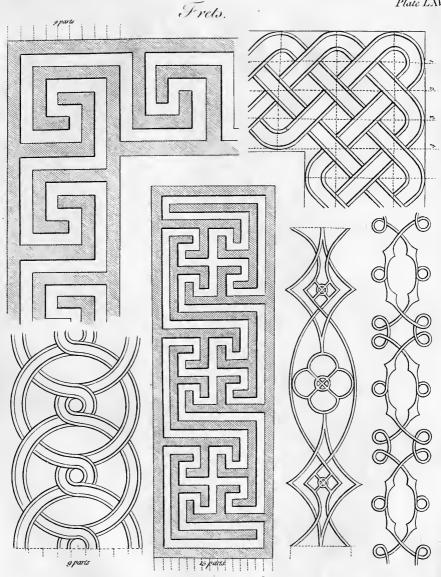


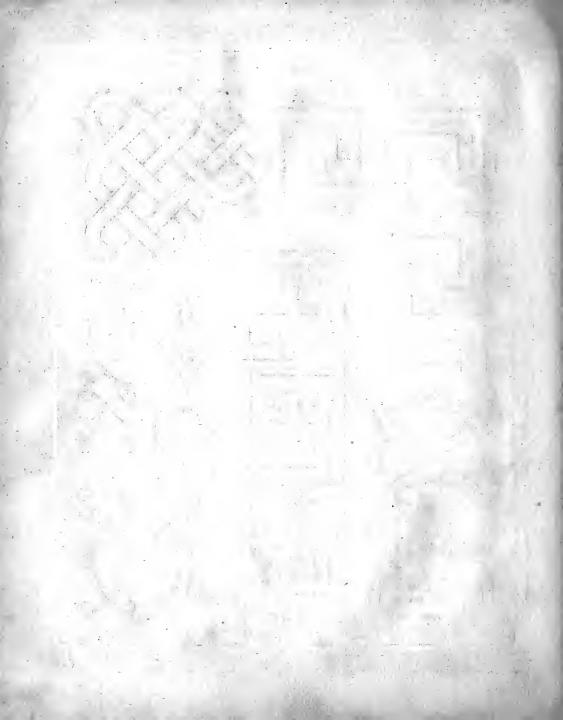
Frets & Guiloches.

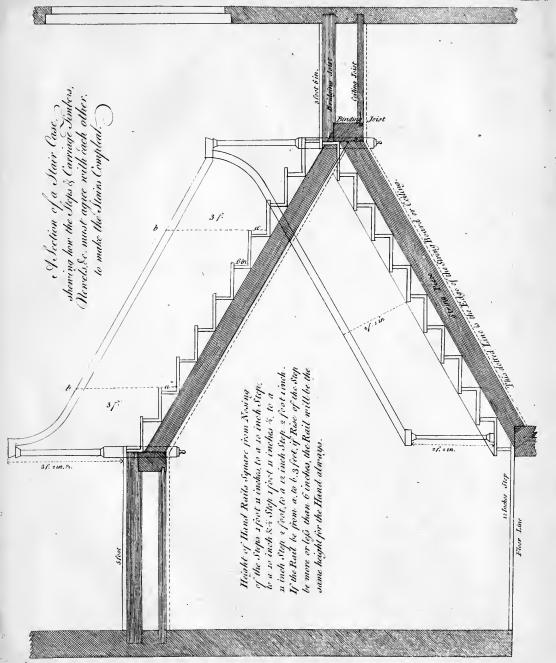
Plate LXIV.

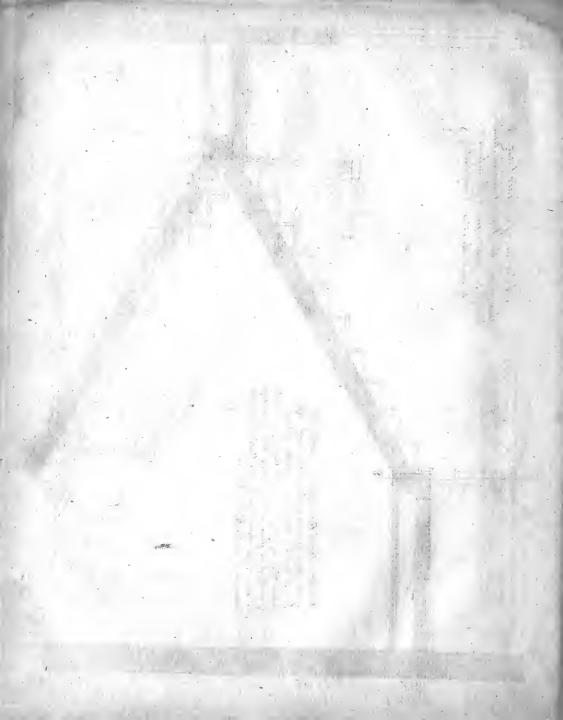


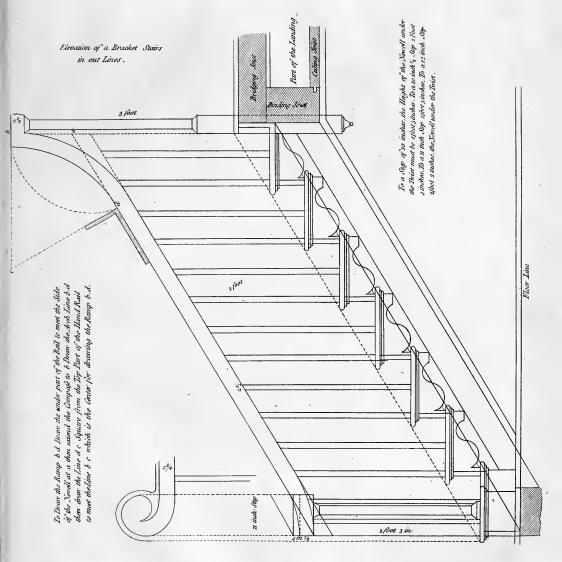


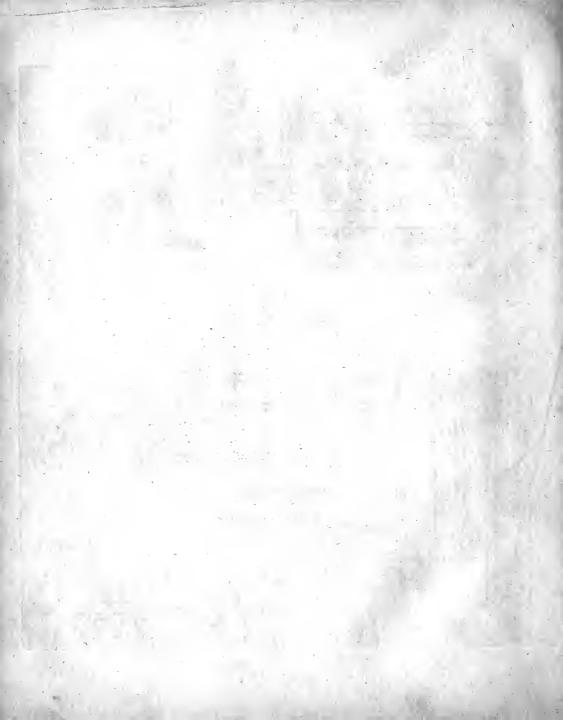


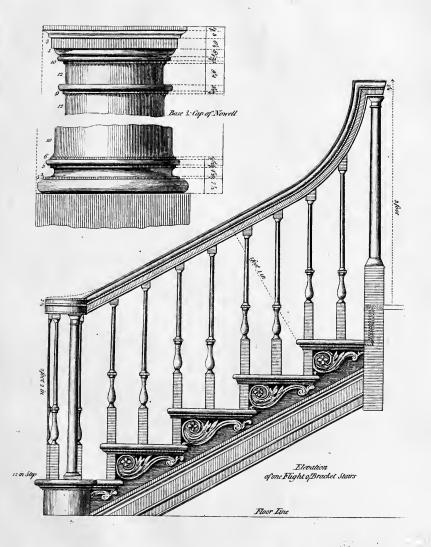


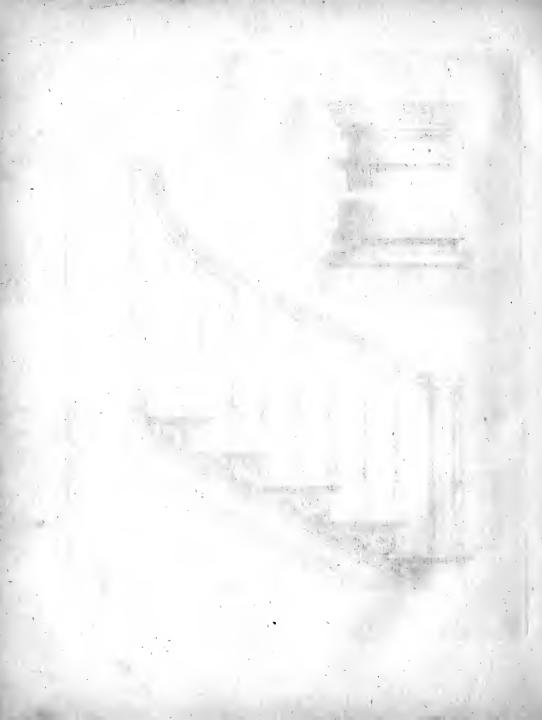












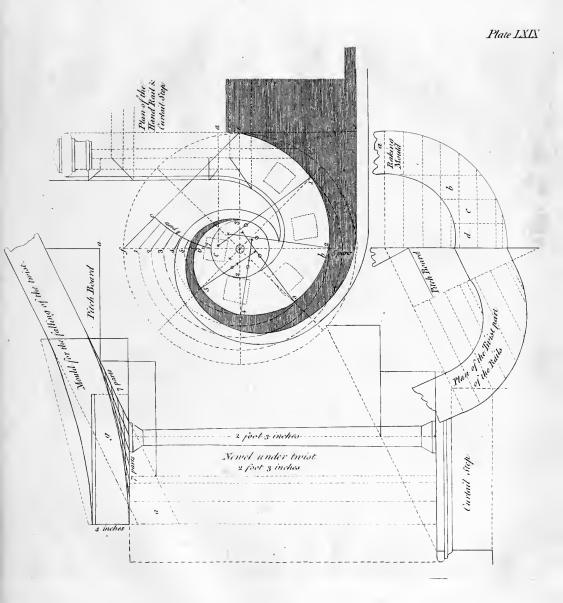
AND THE REAL PROPERTY.

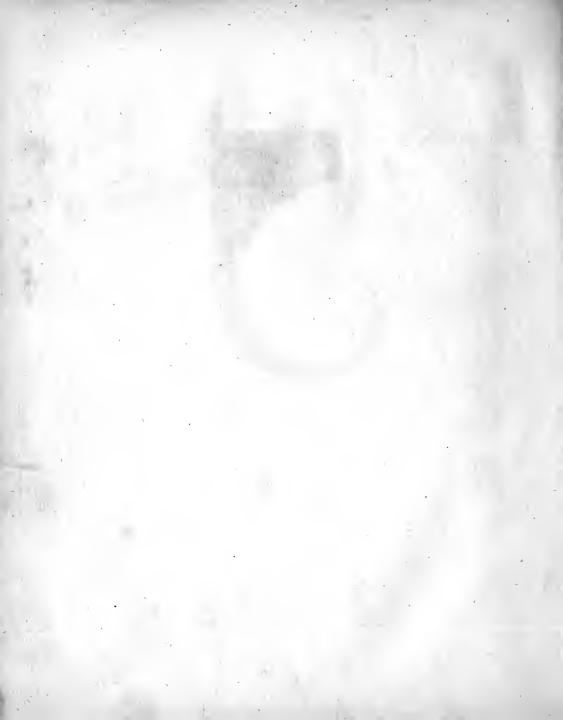
To face P L A T E LXIX.

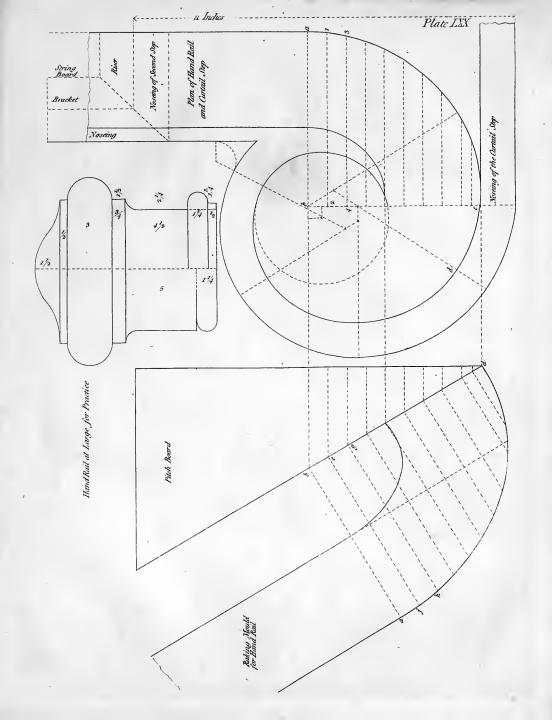
To draw the Plan and Scroll of a twift Rail for a Stair-Cafe.

RAW a Circle equal to the Breadth of two Steps, and divide it into eight Parts, then draw a Circle round the Centre five Inches Diameter, as 2, 3, then draw the Line e, f, and fet one Foot of the Compass at e, and draw the Arch Line 7, o, which must be divided into eight Parts, and draw Lines from e, thro' each eighth Part to the Line 1, 2, 3, 4, 5, &c. then set the Compass in the Centre of the Scroll, and draw the dotted Lines from 1 on the Scale to 1 on the Edge of the Rail, and from 2 to 2 on the Edge of the Rail, and so for all the Rest to each eighth Part of the Circle, which gives the outer Edge of the Rail.

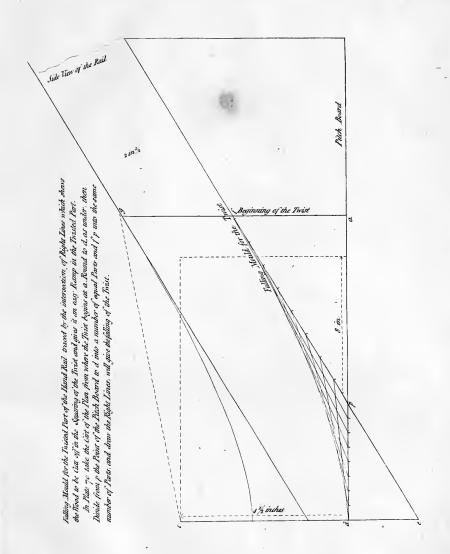
To find the Centre for drawing each eighth Part, fet one Foot of the Compass in the Centre of the Scroll, and take the Distance to f, with the same Radius; fet the Foot at e, and make a Mark at c, and with the same Radius fet one Foot at f on the Edge of the Rail, and bisect the former Stroke at f, which is the Centre for the first eighth Part, then take from the Centre of the Scroll to f on the Scale, and set one Foot at f on the Edge of the Rail, make a Mark in the Eye and move the Compass to f on on the Edge of the Rail, and bisect the former Stroke, that is the Centre for the second eighth Part, and so on for all the Rest. The Centre for the Front of Riser and Nosing of Step are the black Dots, one sifth Part from the Rail to the Nosing of the Step without the other Centre; the Pieces which make the twist Part of the Rail are f, f, on the raking Mould the Twist begins at f on the Edge of the Rail, and Ends at three on ditto, the remaining Part is level; the lower Part of the Scroll from f is cut out of a Parallel Piece, as represented by f on the Newel, &c.

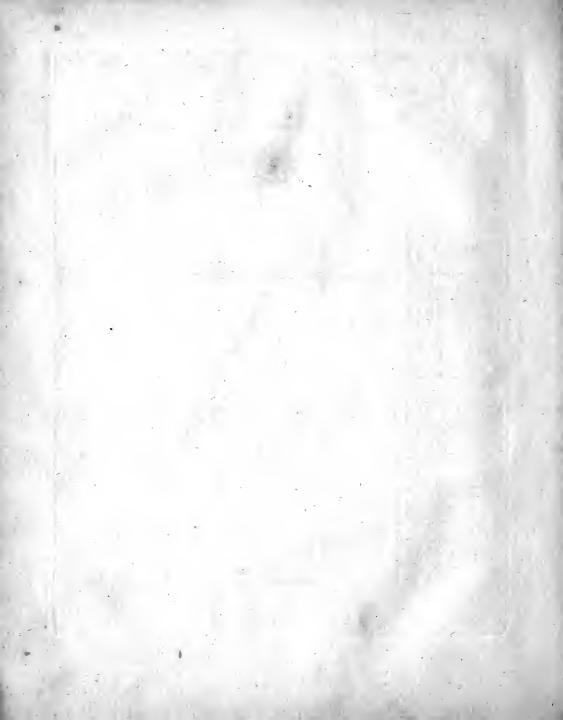


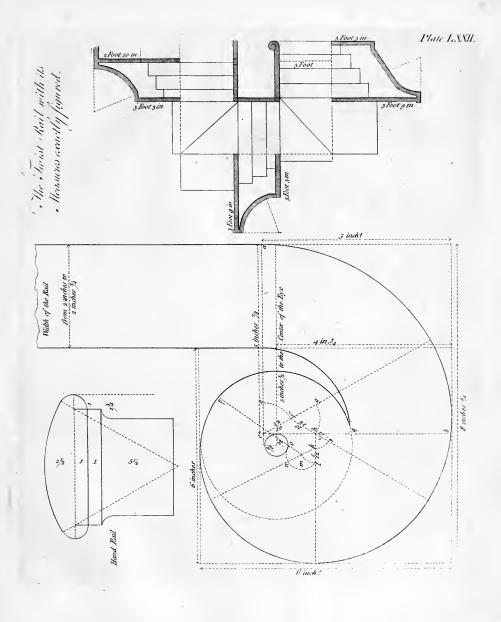


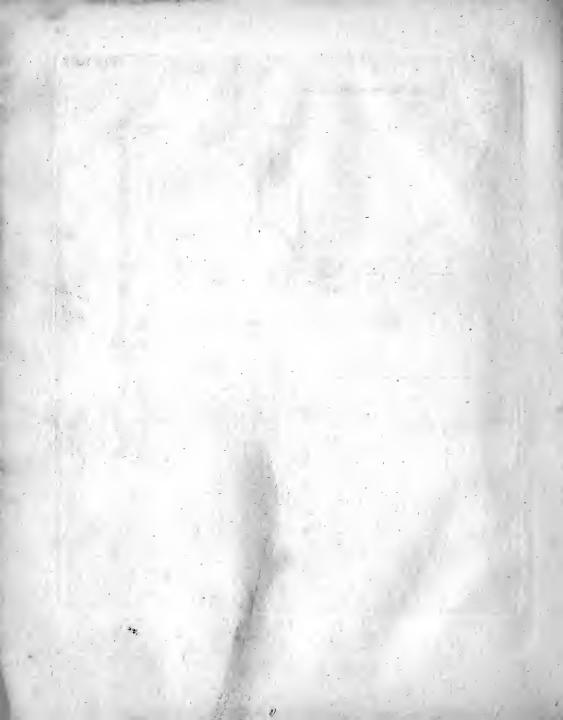


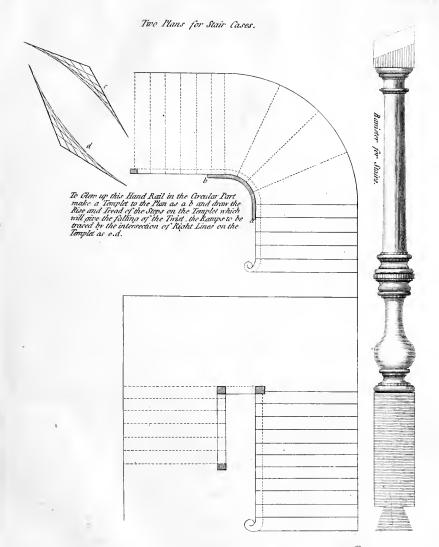






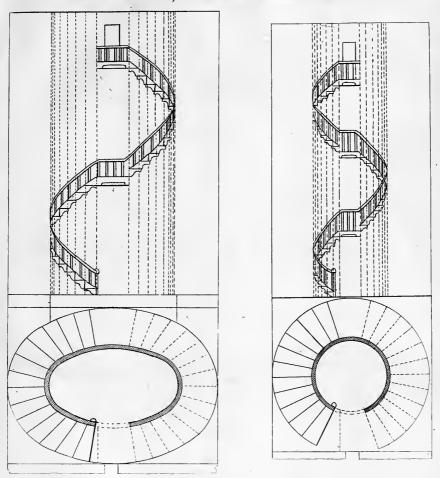






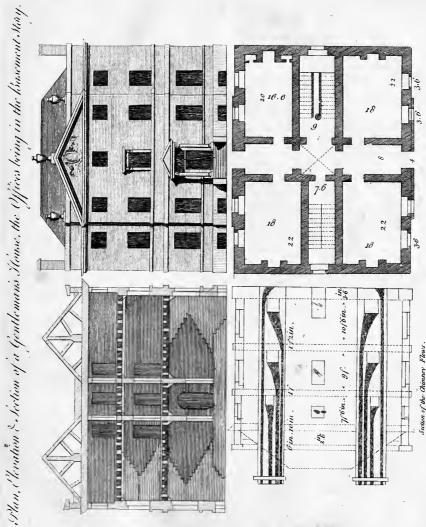
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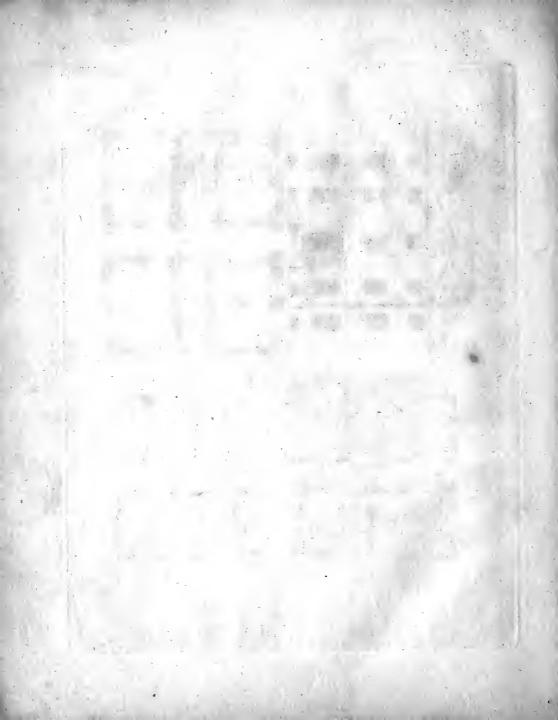
Pland Clovation of a Circular & Oval Stair Case, Plate IXIV.



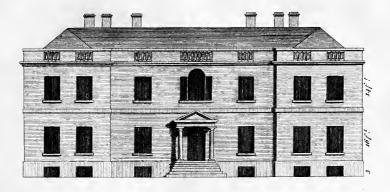
To be lighted by a Dome or Cone Lanthorn at the top, if placed in the middle of a Building. If on the outside may be lighted by Windows in the Wall at each landing. To make the Hand-rail make a l'emplet or Gilinder to the sael hele or open of the Rail, draw the tread & rise of each step on the Gilinder, and that will give the folling of the Rail, which is to be glowed in thickneps bent round the Gilinder, then the Rail, will come off ready squared, this is a very sure way to make the Rail.

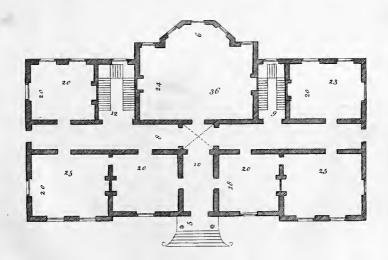


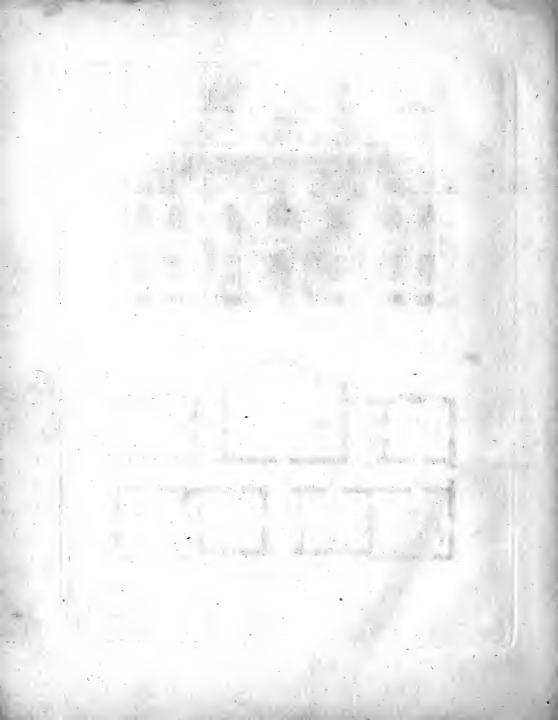




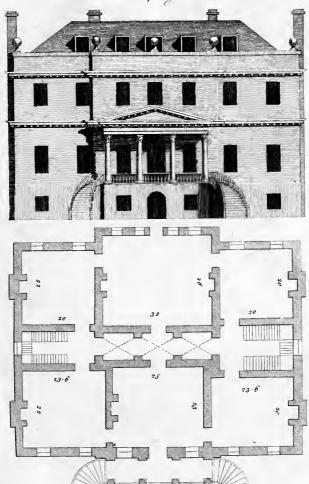
Plan and Clovation of a Gentleman's House.

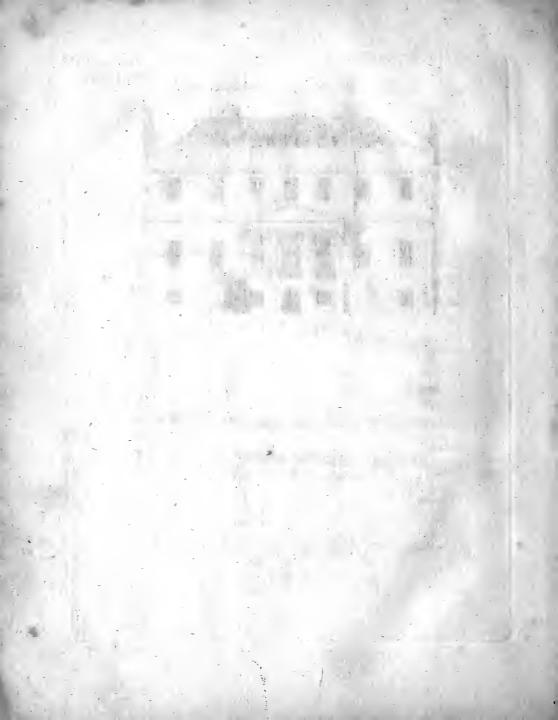


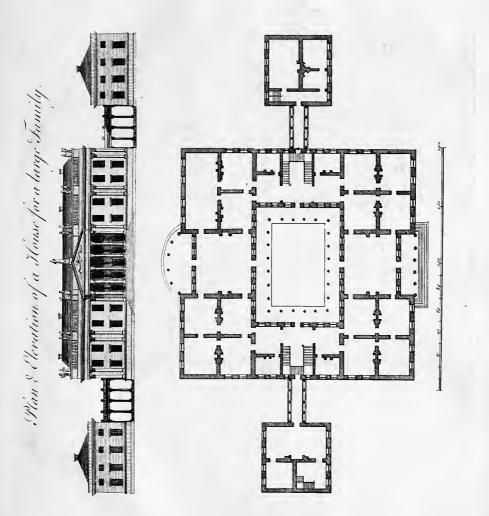


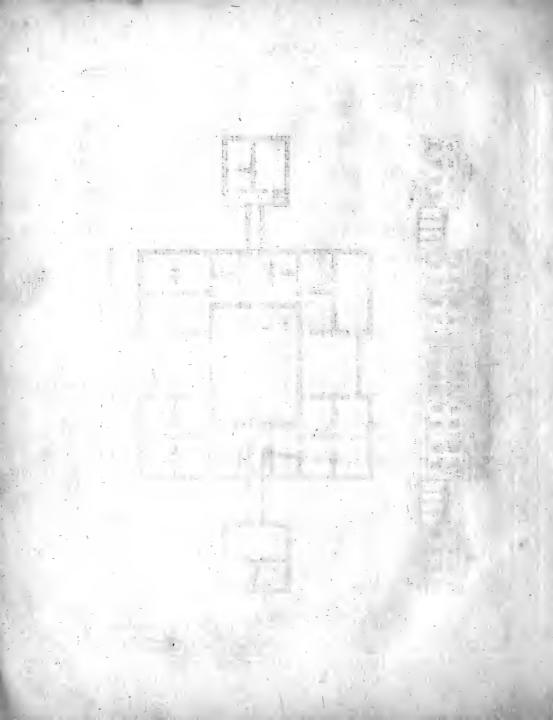


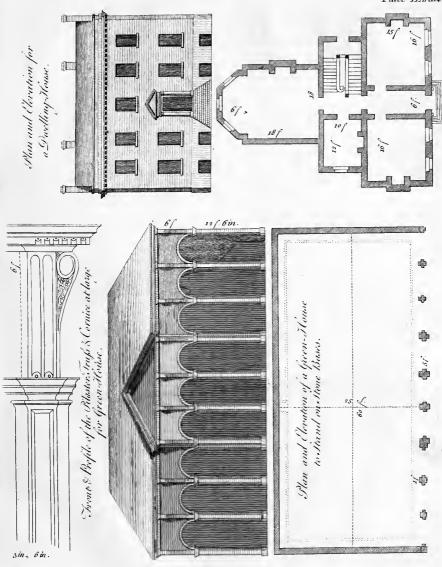
Plan & Elevation of a Gentlemans House.



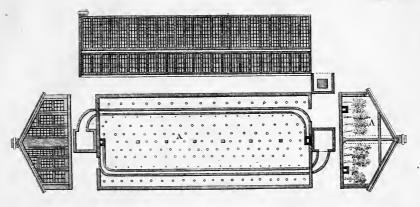


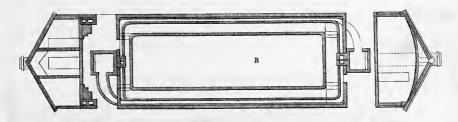












Two Plans, Elevations and Sections for Stoves or Hot Howes for Pines, Fruit Trees, Strawberrys &c.

The Plan and Section A is for Fruit Tree.

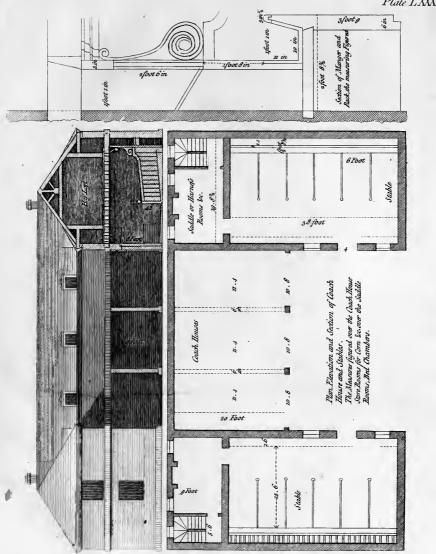
The Plan B, for Pines; the Flows in this Plan run one over another as may be seen in the Section, There are live Places at each End and a Walk all round.

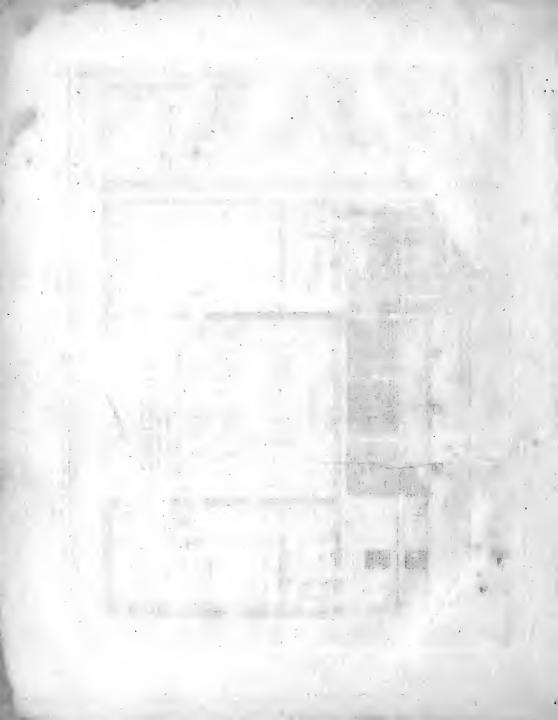
The Flows in the Plan A. Run on the Surface and are single Flows.

The Pront Roof and Ends Glafi, as the Elevation of the Plan A.

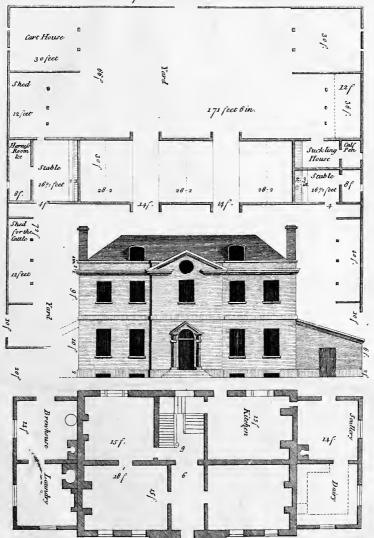
The Width of each House is 16 Feet the Longth at Plansure from 40 to 50 Feet, or more at plansure.

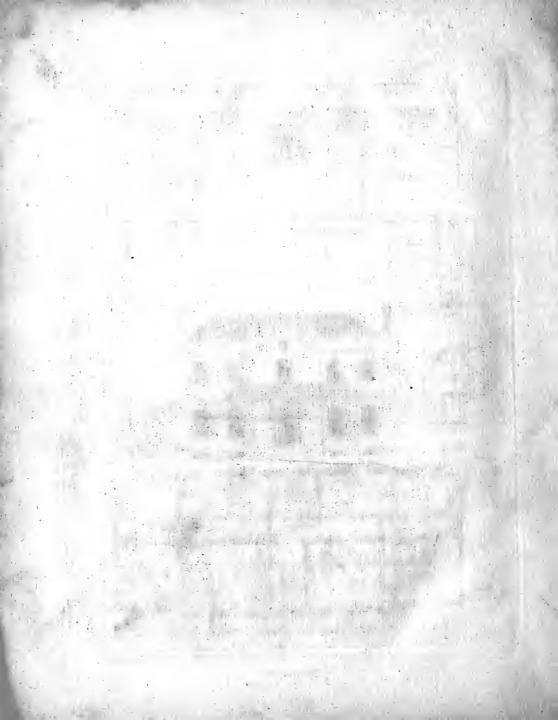




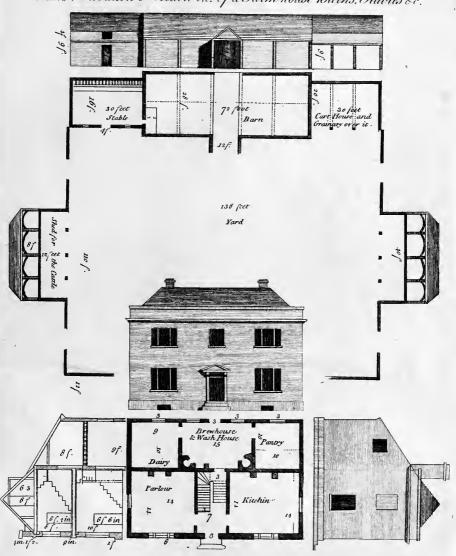


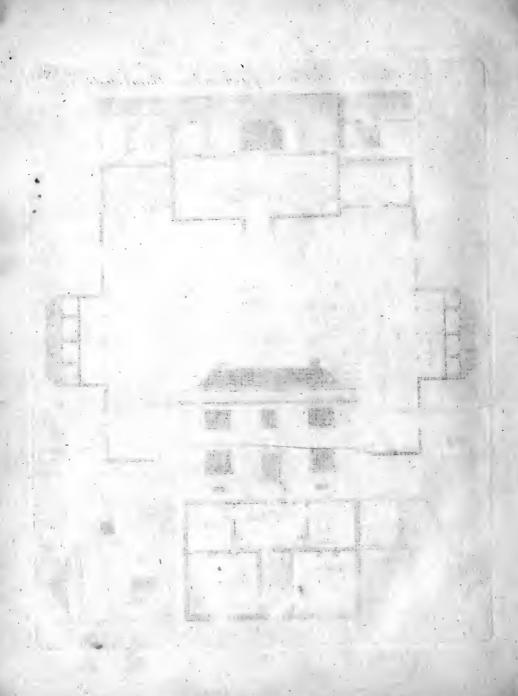
Plan & Clovation of a Farm-House, Barn, Stable, &c. Plate LXXII.





Plans, Elevation & Section &c. of a Farm-house Barns, Stables &c.





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