

# FOR EVERY TYPE OF BUILDING

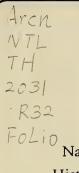




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# FOR EVERY TYPE OF BUILDING

A Practical Drafting Room Guide for Contractors, Builders, Lumber Dealers, Millmen, Draftsmen, and Architects.

William A. Radford, President of the Radford Architectural Co.; Editor-in-Chief "American Builder" and "Farm Mechanics"; Publisher "Radford's Cyclopedia of Construction" in twelve volumes; "Radford's Estimating & Contracting"; "Details of Building Construction"; "Guaranteed Build-Plans", Etc., Etc.

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THE RADFORD ARCHITECTURAL COMPANY, CHICAGO, ILLINOIS

## FOREWORD

THIS present volume is intended to supplement our well-known collection of building details, entitled "Radford's Portfolio of Details of Building Construction," which was first issued in 1912 and has since run thru many editions.

All of the plates in the present series are new—not duplicating at all the earlier work. They present many of the modern ideas, that have come to the front during the past ten years.

This collection of details is offered with the expectation and hope that it will be of great practical utility to carpenters, builders, mill men, lumber dealers, draftsmen and architects. The aim has been to make it a complete manual of modern building practice, all points being made clear and understandable by means of the working drawing—the language of the blue print and the universal language of the building trades.

This book is a collection of plates, accurately drawn by skilled draftsmen, showing clearly the details of modern building construction and finish. Brief explanatory text accompanies each plate, calling attention to some of the points illustrated. The drawings themselves, however, are of first importance and should be carefully studied. More helpful ideas and exact information are contained in a single one of these plates of details than could be crowded into a whole chapter of ordinary descriptive text.

Details are given showing the framing and construction of residences of every type—frame houses, brick houses, brick veneer houses, stucco houses, etc. Also every popular and attractive style of interior trim is fully detailed. Special ideas are presented for the appropriate interior finish for every room or part of the house. These ideas are worked out complete, the drawings showing both the arrangement of the room and all the interior trim, including built-in features, fully detailed.

This is the day of "built-in" space and labor-saving features in the home. Carpenters and builders are called on continually to plan and build buffets and sideboards for the dining room; kitchen cabinets, cases, and cupboards for the kitchen and pantry; wardrobes and linen closets for the chambers; and window seats, fireplaces with decorative mantels, and built-in bookcases for the living room and library. These drawings have been prepared to show exactly how this kind of work is done. Many practical ideas are embodied in them; and new and attractive designs are presented from which the carpenter, the architect, or the builder can draw for all or any of these.

Many valuable details are also included in this collection of special interest to the country carpenter and builder. These include barn framing details of all kinds, ice-house and cold storage construction, silo building, etc.

The practical utility of detail plates of this kind will probably be best appreciated by those who draw plans or who are called upon to make their own designs for building work. The drawings in this collection have been prepared to meet especially the needs of such workmen.

Especial attention is called to the Index. This has been made very complete, all the various features detailed on any of the plates being listed and cross-indexed so that they may be very quickly found, without the necessity of searching thru the entire work. Since all the plates are completely indexed for ready reference their full value is available for use by the busy man.

# Logical Methods in Architectural Drafting

A KNOWLEDGE of architectural drafting is vitally essential to the carpenter, builder or contractor, who would develop both himself and his business to the greatest possible extent.

The builder who is able to work out a neat and accurate set of drawings or "plans" fully dimensioned and detailed, leaving nothing to chance, has a very decided advantage over his brother, who, without fully conceived ideas and plans, starts building, and trusts to luck and good fortune that everything will work out all right. Even rough sketch drawing with approximate dimensions are better than none, but only full and detailed sets of plans are advisable.

In evolving a set of working plans the first logical step is the sketch. The purpose of the sketch is to fix the various ideas of either the builder or his client or of both and to give some definite basis for a start.

The medium for the sketch may be either pencil, pen and ink, water color or wash, the first named being the most common and the simplest to use.

The value of the sketch to the "builder architect" can hardly be over-estimated, because if well and attractively

done, it may bring valuable contracts, which might not be obtained if this means of expression were not used.

Preliminary or "thumb nail" sketches, as they are sometimes called, should not be over 3 or 4 inches in size. They are not drawn to any definite scale and their chief purpose is to show arrangement. They should, however, be kept in proportion as much as possible.

The type of plan for such a sketch must of course be determined upon before the first drawing is made and the deciding factors are, first, the character of the site, and, second, the style of the exterior.

If we analyze any number of house plans we will find that they may be broadly classified into two general types, namely, the central entrance or central hall type, and the side entrance or side hall type. In the first named, as illustrated (Fig. 1), we have a symmetrical arrangement of rooms opening from a central hallway. This is the typical "Colonial" plan and calls, as a rule, for that style of elevation. In Fig. 2 we have the second type shown; note that in this type we have a plan that is unsymmetrical and is adapted especially to the narrow city lot.

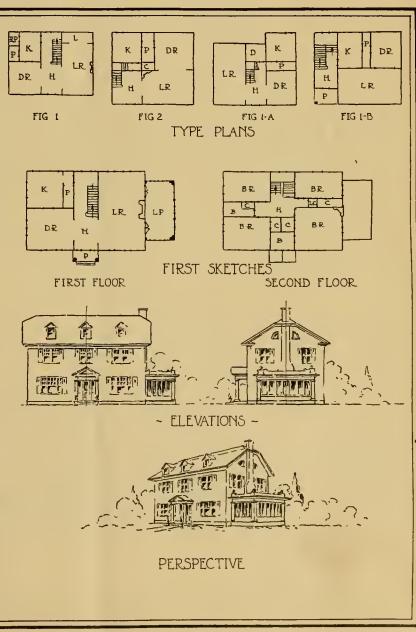
We will take as an illustration of the logical steps to follow in making a sketch the first type, or central hall plan. First determine the approximate proportion of the floor plan, says two as to three. 1. Sketch center line. 2. Draw front and rear outside wall lines representing the width of the wall by a single line. 3. Side wall lines. 4. Locate main partition lines. 5. Minor partition lines. 6. Rough in approximate position of openings, doors and windows.

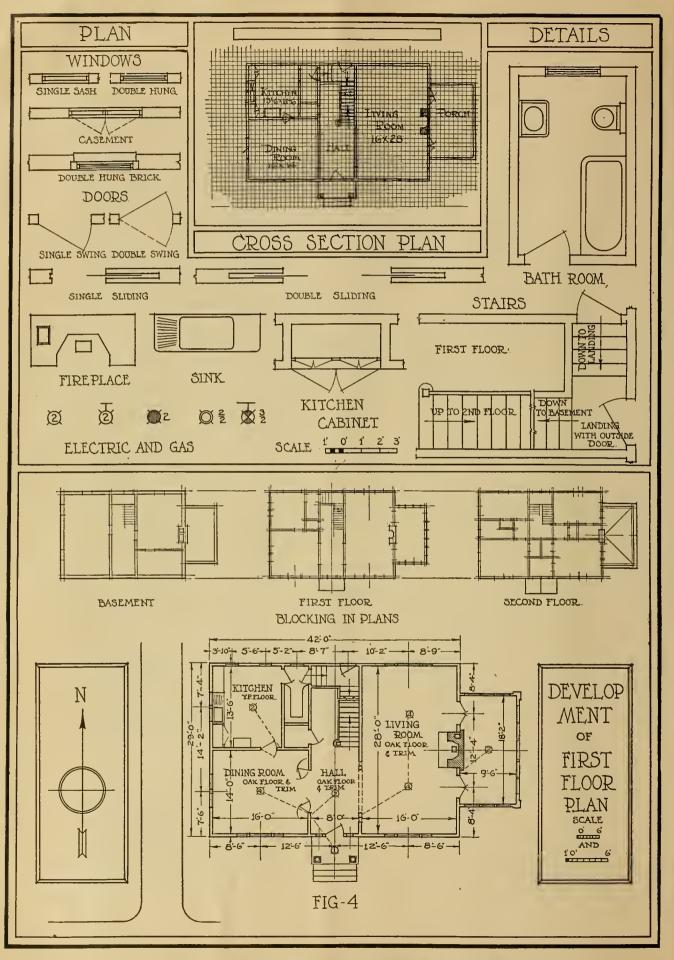
Study carefully at this time the relation of rooms and the circulation. In like manner sketch second floor plan. It will be found that the basement, as a rule, logically takes its arrangement from the first floor plan, so we need not consider it in the first sketch.

After line sketches of the plans are made, the front elevation and then principal side elevation should be drawn.

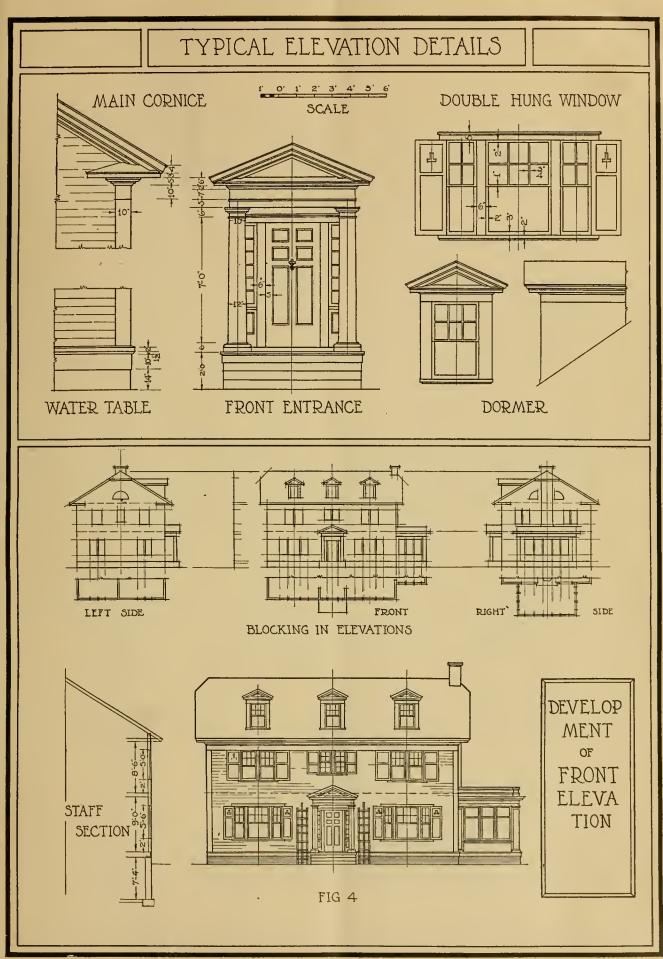
The style of the exterior having been decided, determine first the proportion of the front wall—that is, the height from the ground to the under side of the cornice compared with the width. This height in the ordinary two-story house varies from 20 to 24 feet.

- 1. Block in this rectangle with center line.
- 2. Block in height lines for windows and doors.
- 3. Draw vertical outside lines for windows and doors, determining their positions approximately from plans.
- 4. Draw roof, taking height as 1/4, 1/3 or 1/2 depth of plan, depending on judgment of designer.
- 5. Draw in porch or porches according to style of exterior.
- 6. Darken or shade window openings and show shadow under cornice.
- 7. Sketch in background.

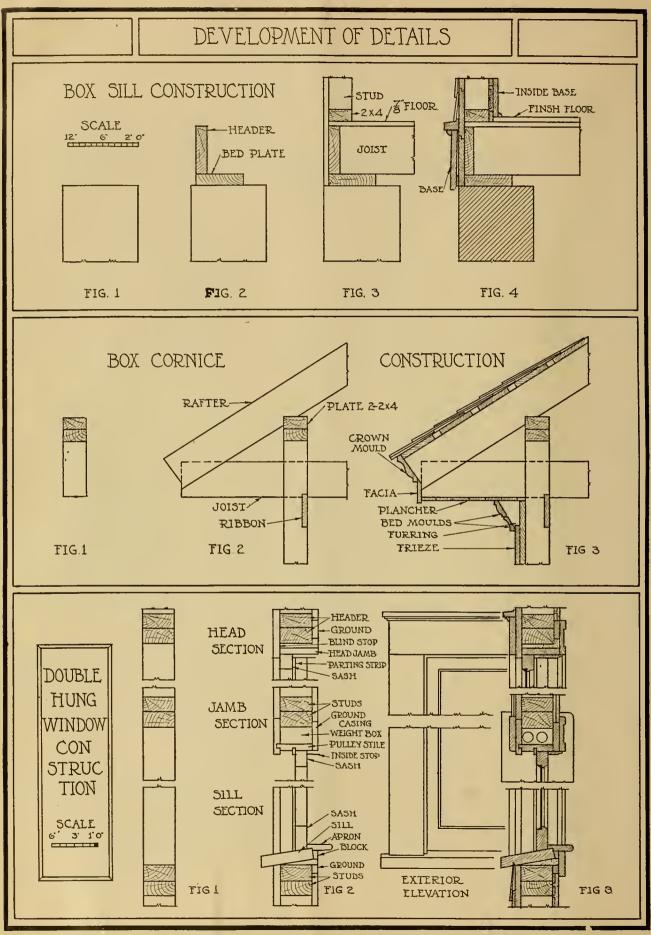




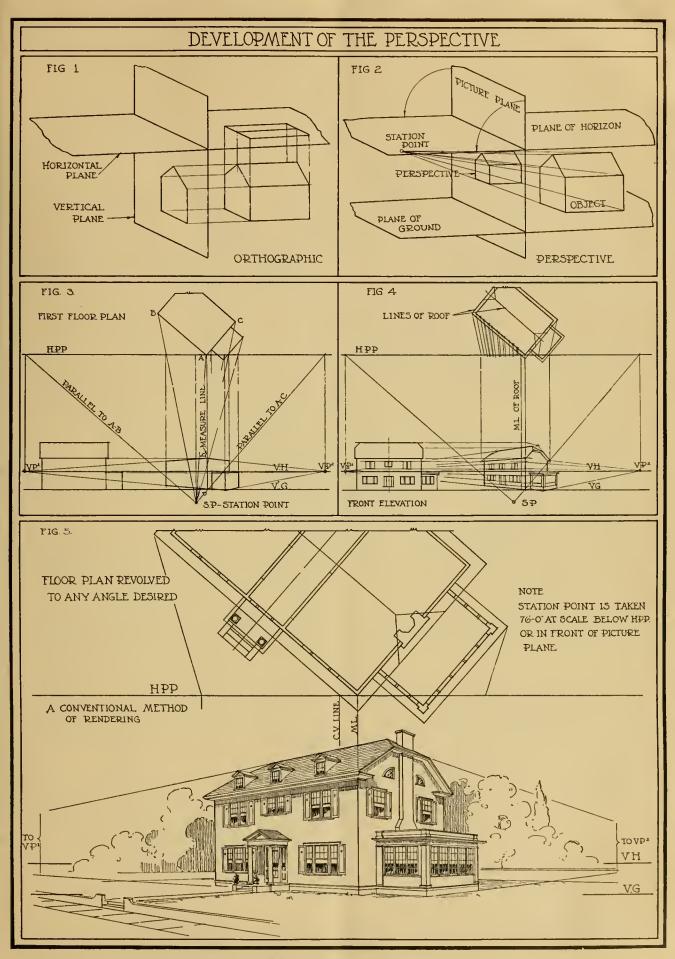
Illustrating Logical Method of Developing the Floor Plans of a Residence.

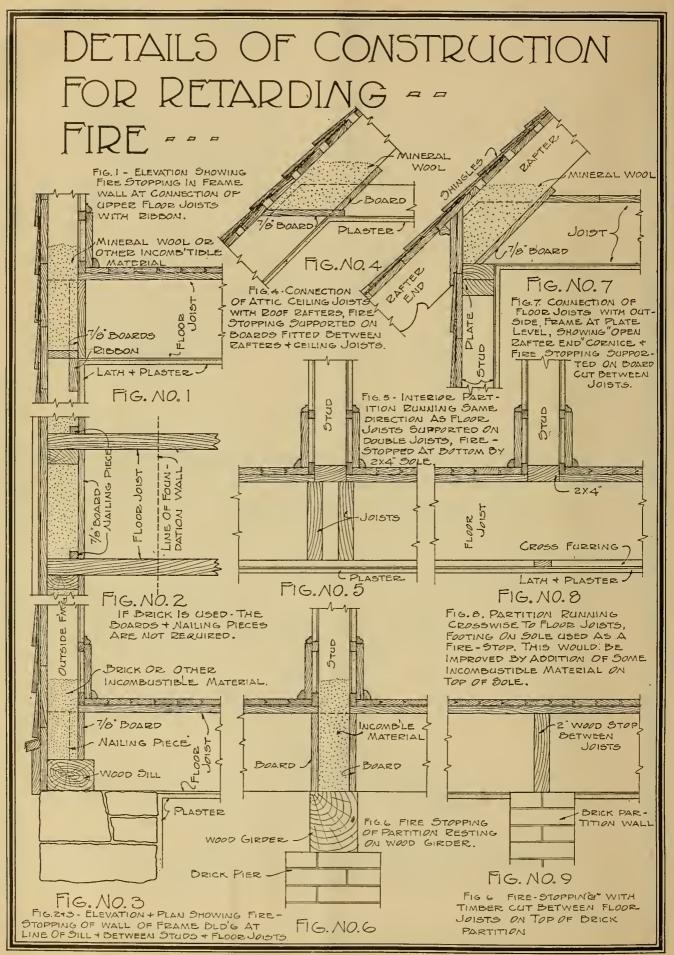


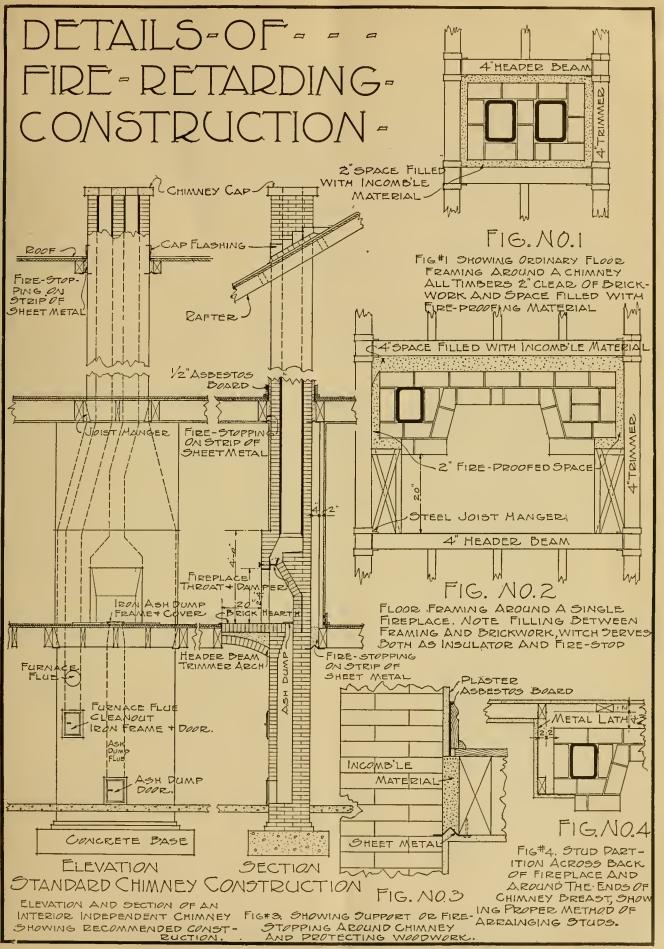
Illustrating Logical Method of Developing the Elevations of a Residence.



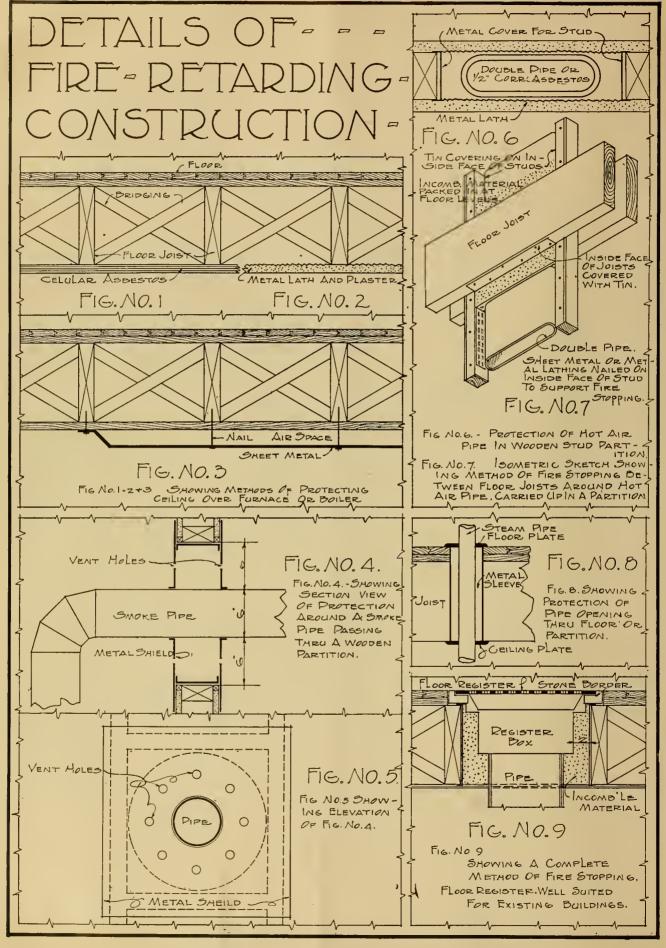
Illustrating Logicat Method of Handling Construction Details of a Residence.



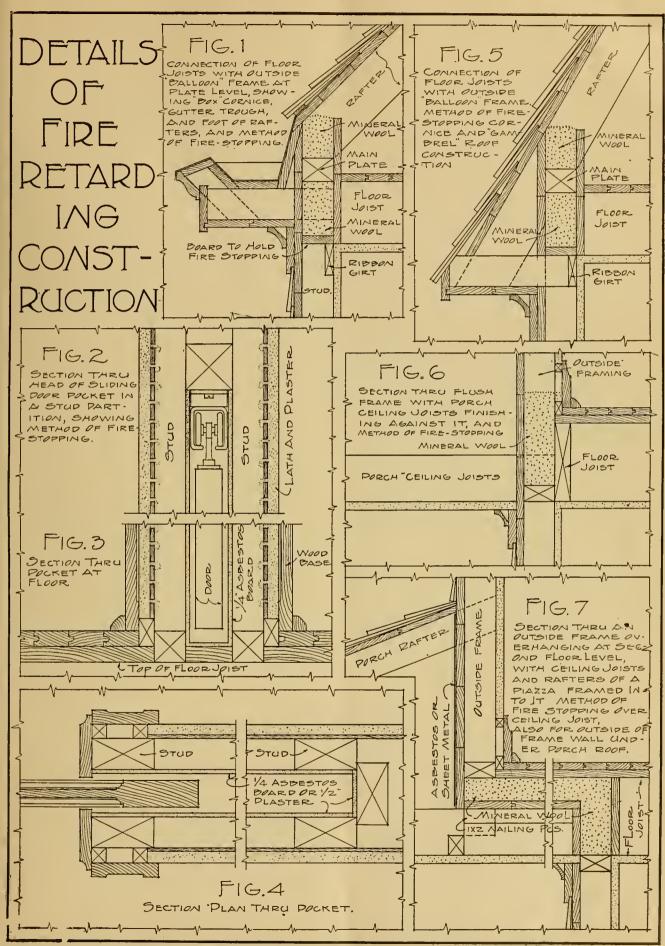




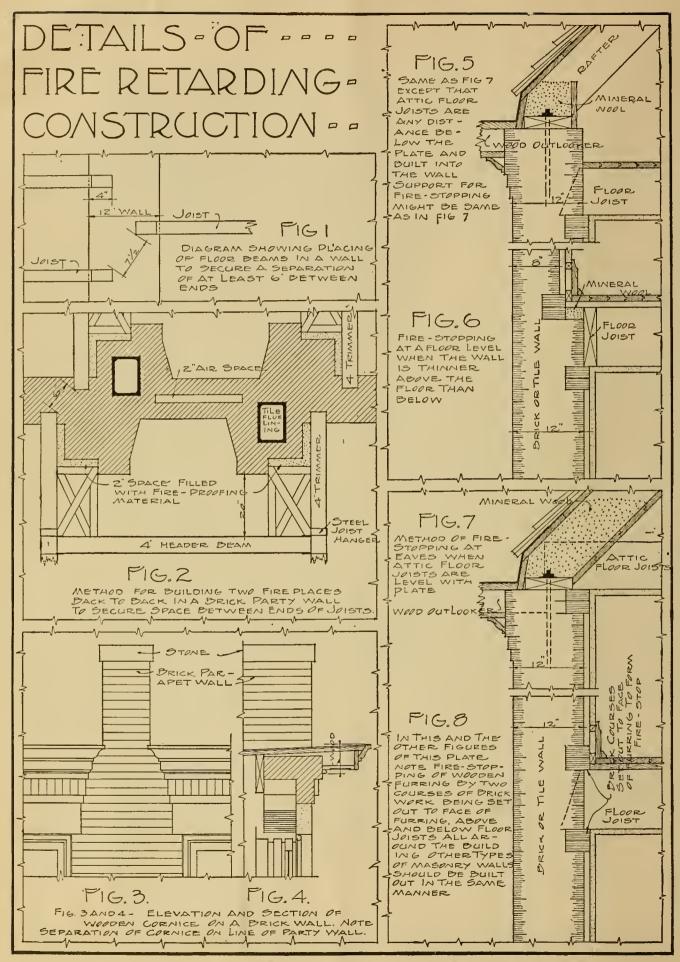
How to Lay Up Chimneys and Arrange the Floor and Roof Framing in Relation to Them to Make a Fire-Safe Structure.



Details of Fire Guards to Build in Around Heating Plant Pipes for Protection.



Details of Fire Retarding Timber Construction, Showing How to Do It the Better Way.



Details of Brick Walls with Mineral Wool Filler at Eaves and Floors; Also Double Fireplace Detail.

## Framing to Prevent Unequal Shrinkage-Settlement

KETCH No. 1 shows a cross-section of a "balloon" frame taken from an actual example. It is a glaring violation of all the principles of good construction, fire-resistance and sanitation. It's a fire trap, a vermin harbor, and is subject to a disastrous amount of unequal settlement. At "A" is shown the original condition of the framework just after being built. At "B" is indicated, graphically, the dilapidated and deplorable condition of affairs, a year later, after the inevitable shrinkage-settlement has taken place. And it is to be especially noted that the faults shown are not the result of settlement itself, but rather the result of the difference in settlement of corresponding and adjacent parts. If an engineer were to design a foundation in such a manner as to be productive of the faults shown, he would, most assuredly, be considered an exceedingly poor engineer. And rightly so. Why, then, in the name of common justice, is not the builder who, day after day, continues to design and frame the timber superstructure in the manner shown, deserving of the same amount of condemnation as the discreditable engineer? Wherein is the difference between an incompetent designer of foundations and an incompetent

SKE TCH 4

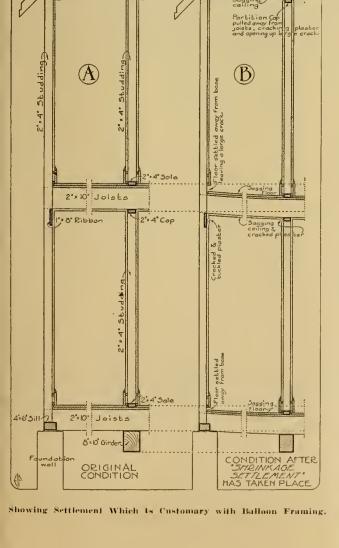
Joista

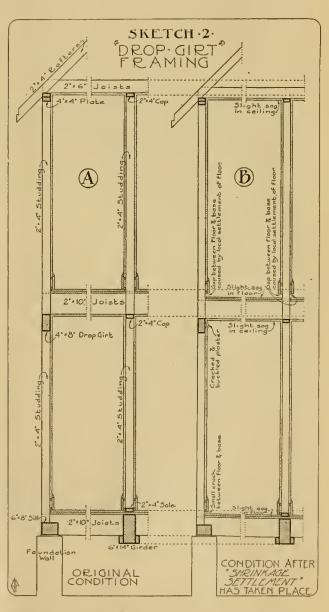
Plate

ALLOON

designer of timber framing? As a matter of fact, the latter, in this particular case, is more to be censured than the former, for, in residence construction, seven cases out of ten the evils resulting from unequal settlement can be traced to the timber framework rather than to the foundation.

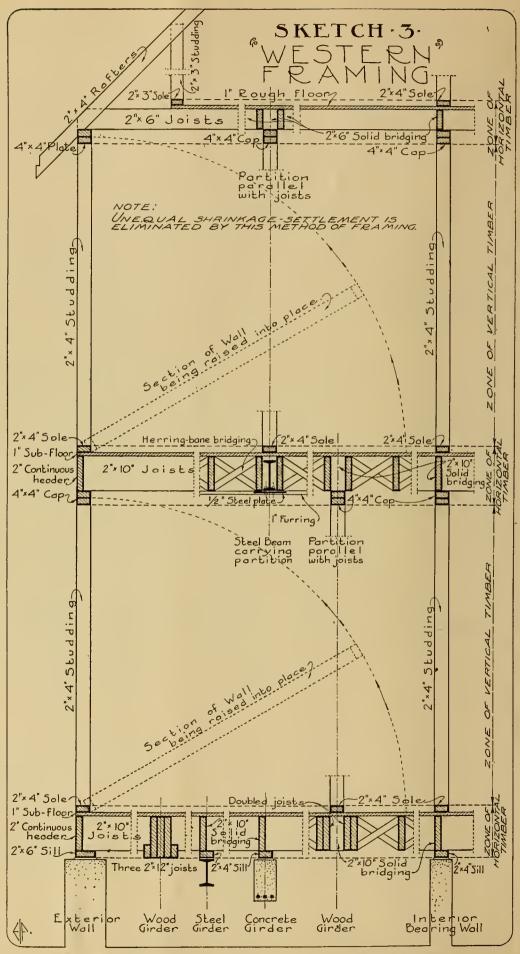
In the "balloon" framing, shown in Sketch No. 1, the exterior studding extends in one length from sill to rafter plate. Hence, the amount of shrinkable timber contributing to the total vertical settlement of the exterior wall is made up of the 4-inch sill and the 4-inch rafter-plate, equaling 8 inches in all. In like manner, the shrinkable bearingtimber in the interior partition is made up of the 10-inch girder, the two sets of 10-inch floor-joists, the two layers of 1-inch sub-flooring, the two 2-inch partition-soles, and the two 2-inch partitioning caps, totaling 40 inches. Hence, assuming an ultimate shrinkage of 1/2 inch to the foot, the exterior wall will settle 1/24th of 8 inches, or only 1/3 inch, while the interior partition will settle 1/24th of 40 inches, or  $1\frac{2}{3}$  inches. And the *difference* of  $1\frac{1}{3}$  inches is bound to cause trouble-floors sag, door frames are thrown out of square, plastering cracks, and the upper partition sometimes



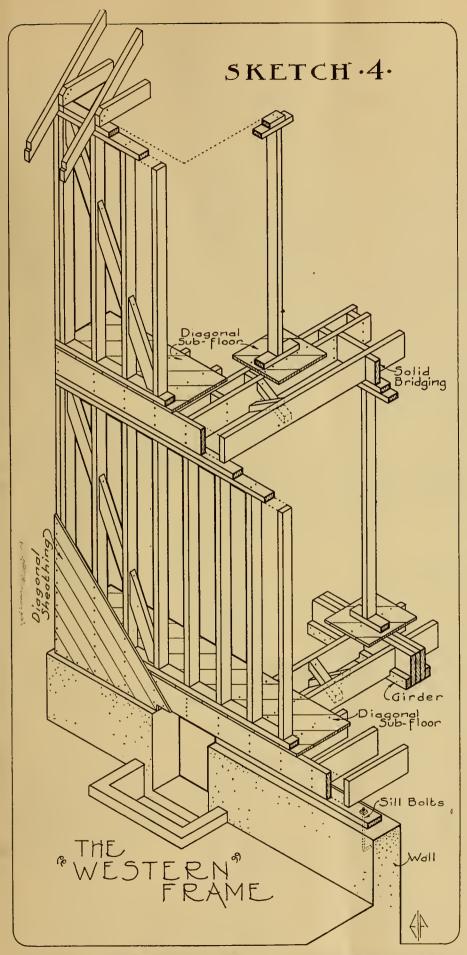


Showing Shrinkage Settlement with Drop-Girt Framing.

parts company with the ceiling overhead, or, perhaps, pulls away from the floor and hangs suspended from the ceilingjoints. Trouble enough, surely1 But that is not all. Damaging local settlement also takes place at the outer ends of the floor joists, often leaving a wide gap between the finish floor and baseboard, as shown exaggerated in the sketch. At the second floor line the total shrinkage of the 1-inch sub-floor, the 10inch joists, and the 8-inch ribbon will measure the magnitude of the gap, equaling, in this case, about 3/4 inch, for this shrinkage will always be downward, in the direction of the load, while no compensating relative settlement will take place in the vertical studding which extends thru this "zone" of horizontal bearing-timber. The base does not move in relation to the studding. But the floor does. Hence, the gap. At the interior partitions, however, the vertical studding does not extend thru the floorconstruction. Therefore the base and the studding both move downward in response to the settling floor. In other words, the settlement is here general rather than local. Hence, no gap occurs between the finish floor and base. On the other hand, if the settlement continues, the base might buckle, or become split, because of the relative upward thrust of the excessively sagging floor. Moreover, this general settlement, not being equalized, is bound to open up a crack in the plastering at the junction of the ceiling and wall underneath. And, finally, the wide ribbon supporting the outer ends of the second floor joists is liable to more relative shrinkage than the plastering that covers it. This is the cause of numerous



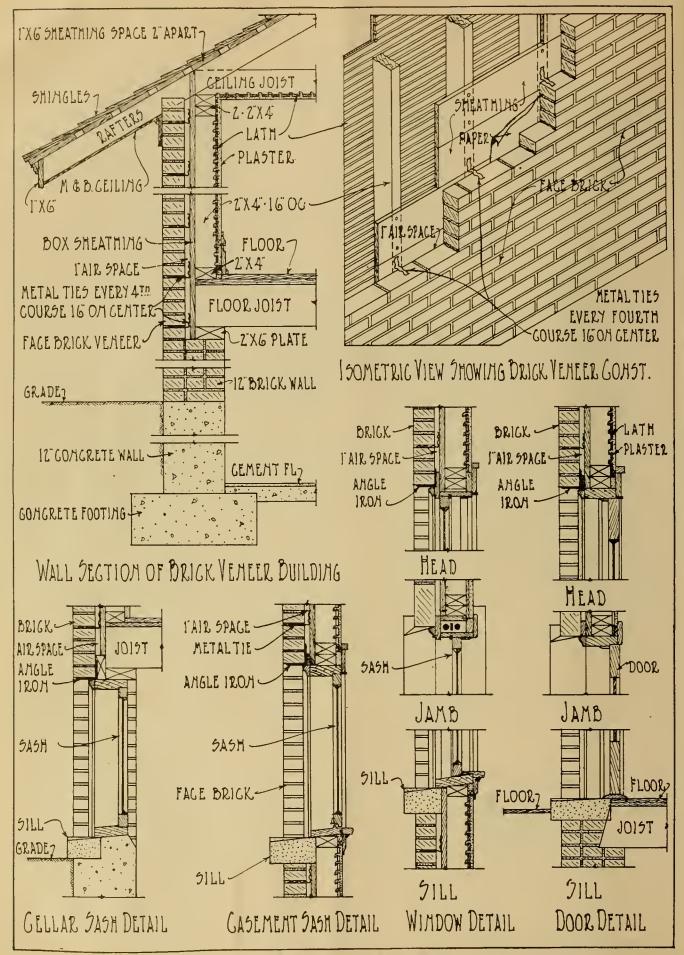
Western Framing Which Strives to Eliminate All Unequal Shrinkage Settlement.



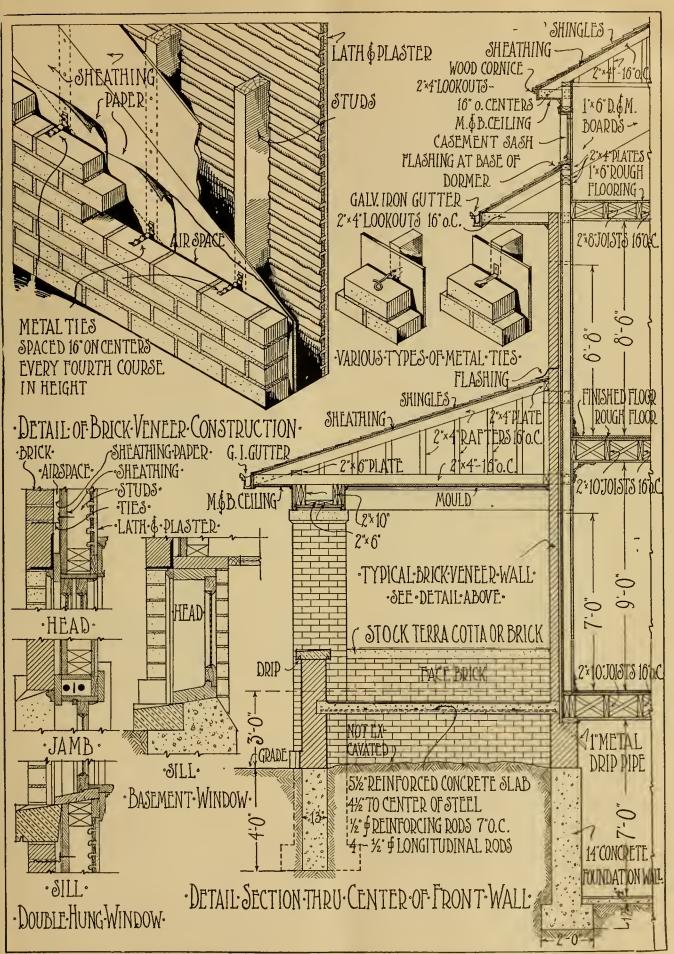
Prespective of All Wood Western Frame. Designed to Prevent Unequal Shrinkage Settlement.

plaster cracks in this vicinity and, if this shrinkage is excessive, the plaster will buckle and, perhaps, fall from this portion of the wall.

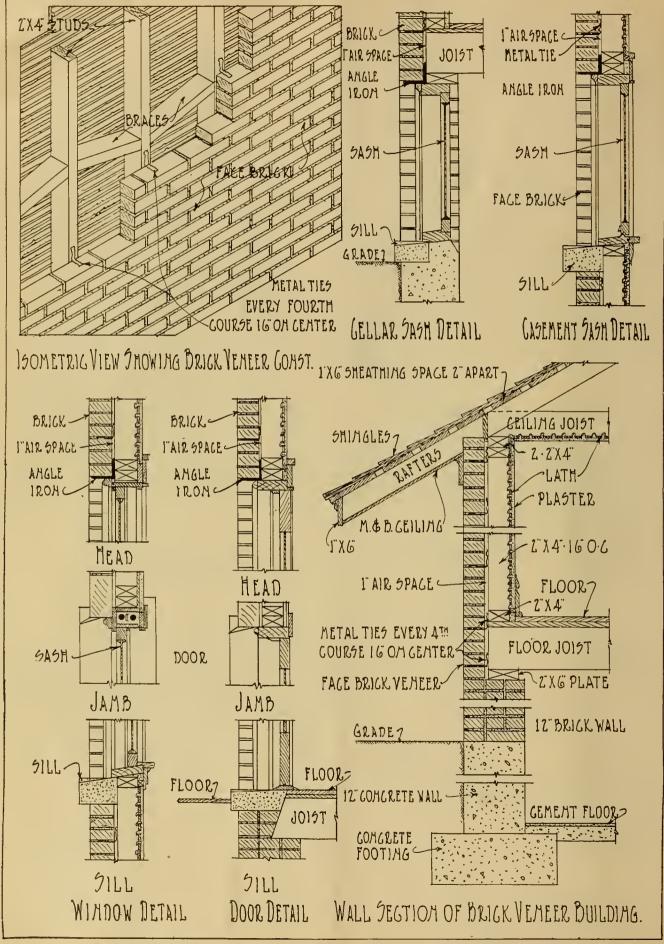
Sketch No. 2 shows a cross-section of a "drop-girt" frame as called for by the most approved practice. At "A" is shown the original condition of the frame upon completion, while at "B" is shown the same construction after the usual shrinkage-settlement has taken place. While this frame is far superior, in every way, to the "balloon" frame, yet it is, neverthcless, subject to the same resultant evils, even tho these evils be of lesser extent. In the "drop-girt" frame, the second-story exterior studding and the outer ends of the second floor joists are supported upon the 4-inch by 8-inch girt, while the upper interior partition studding rests upon the 2-inch partition cap of the story below, as clearly indicated in the sketch. Moreover, the 6-inch by 14inch first-floor girder is framed with the top of the joists. Consequently the general settlement has been almost, but not entirely, equalized. There will still be a slight sag in the floors and ceilings, but probably not enough to crack the plastering. The sag in the first floor, in this instance, is equal to the difference in settlement between the 14-inch girder and the 10-inch joists, amounting to but 1/24th of 4 inches, or a little more than an eighth of an inch, while the sag in the second floor will be not quite one-quarter of an inch, and the sag in the second-story ceiling will equal the difference in the total general settlement of the exterior and interior walls, amounting to exactly an eighth of an inch. But, as before said, this slight sagging will probably cause no serious damage. However, the local settlement occurring at the outer ends of the first floor joists, and at both ends of the second floor joists, cannot be so easily overlooked. At all of these points, as shown in the sketch, the vertical studding extends into the "zone" of the floorconstruction. Hence, the floor settles in relation to the studding and therefore opens up a gap between the floor and base, being more pronounced at the second floor-level because of the greater depth of shrinkable material existing there between the top of the sub-floor and the bearing-surface of the joists. A gap of 1/2 inch or more is not an uncommon occurrence. An attempt to remedy this fault is sometimes made by placing a baseshoc at the junction of base and floor, and nailing same to the floor only, thus keeping the gap "covered."



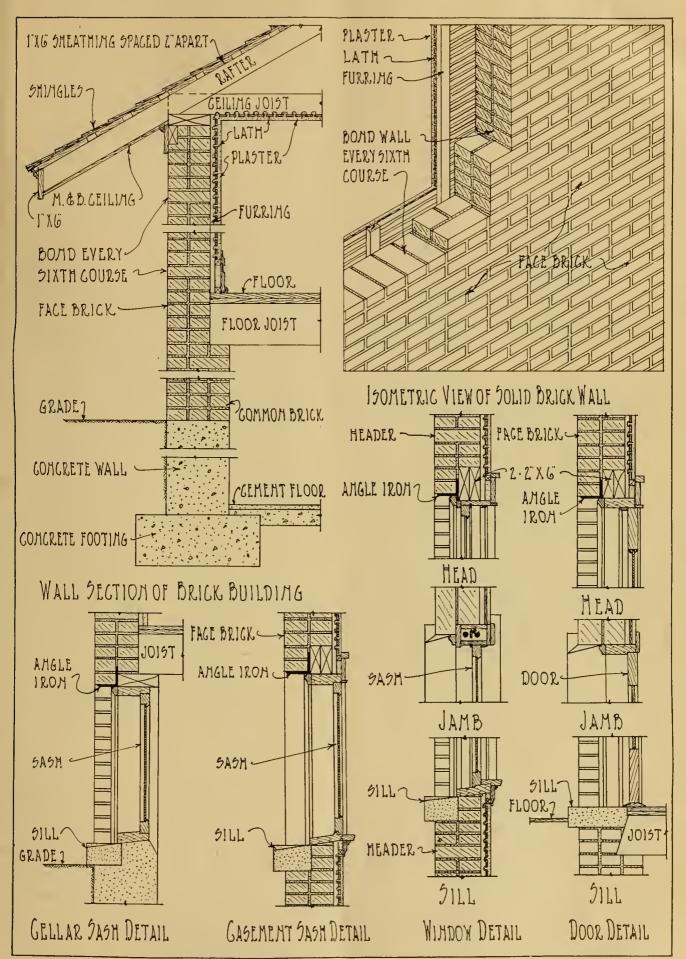
Face Brick Veneer Anchored by Means of Metal Ties to Sheathed Wood Frame of Building.



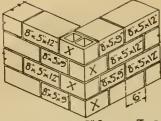
Details of Brick Vencer Construction—Four-Inch Face Brick Bonded to Wood Sheuthing at Every Joist by Means of Metal Ties in Each Fourth Mortar Joint.



Details of Wall Construction, Including Window and Door Details of Face Brick Vencer Over Braced Wood Frame Without Sheathing. The Least Expensive Face Brick Construction for Residences and Other Small Buildings.

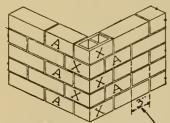


Structural Details of the All-Brick Wall Type of Construction in Which a Masonry Bond Is Used Between the Face Brick Outer Courses and the Common Brick Backing.



"X"= 8 × 5 × 5 CORMER TILL

Corner Bonding Detail for 8-Inch Walls of 8 by 5 by 13-Iuch Hollow Tilc,



THIS DREAKING OF JOINTS) THROUGHOUT MAY BE MADEG BY HAVING THE TILL MARKED"A" CUT TO O"LENGTHS "X"= 8-5-4" CORNER TILL

Corner Bonding Deluil for 5-Inch Walls of 4 by 5 by 12-Inch Hollow Tile Laid on the 5-Inch Bed. When Laid on the 4-Inch Face for 4-Inch Walls, the Corner Tile Would Be of 4 by 8-Inch Sections Cut to 4-Inch Length (4 by 8 by 4-Inch), tilving a 4-Inch Breaking of Joint.

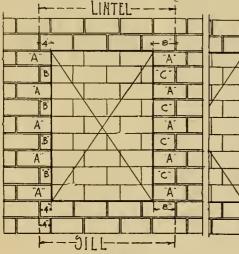
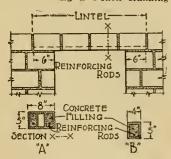
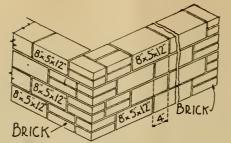


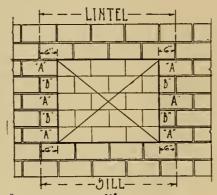
Diagram Showing Placing of Opening in Hollow Tile Wall Having a 4-Inch Running Bond Between Courses,



Section "A" for 8-Inch Walls of 8 by 5 by 12-Inch The: Section "B" far 4-Inch Walls of 4 by 5 by 12-Inch The and for Combining with Section "A" to Form Lintel for 12-Inch Wall Built of These Two Shapes. Similarly for 16-Inch Thick Wall Two Lintels of Section "A" Would Be Used.

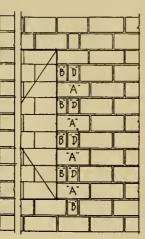


Detail for Bonding Corners and Finishing Around Openings of 8-Inch Hollow Tile Walls with Common Brick.



### A.FULLSIZETILE D.HALFSIZETILE

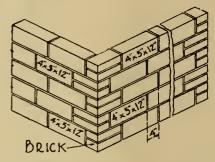
Diagram Showing Placing of Opening in Hollow Tile Wall Having a 6-Inch Bond Between Courses.



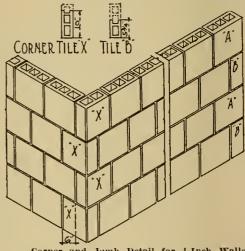
A X A

THIS BREAKING OF JOINTS) THROUGHOUT MAY DE MADE 6" BY HAVING THE TILE MARKED "A" CUT TO O" LENGTHS. X- 8"×5"×8" CORNER TILE

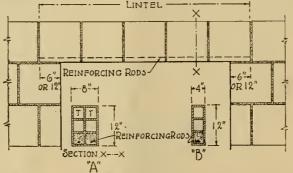
Corner Bonding Detail for 5-inch Walls by 8 by 5 by 12-Inch Hollnw Tile.



Detail for Bonding Corners and Fiaishing Around Openings of 4-Inch Hullow Tile Walls with Common Brick.



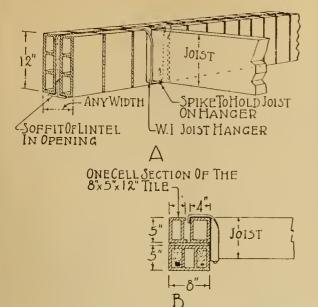
Corner and Jamb Detail for 4-Inch Walls of 4 by 12 by 12-Inch Hollow Tile. Detail for Wall 3 by 12 by 12-Inch Hollow Tile Would Be Similar. Excepting That Corner Tile "X" Would Be Cut as Close to 9 Inches as Possible.



A Section "A" for 8-1nch Walls of 8 by 12 by 12-1nch Tile; Section "B" for 4-1nch Walls of 4 by 12 by 12-1nch Tile and for Combining with Section "A" to Form Lintel for 12-1nch Wall. Lintels Made of Single Blocks Similar to Section "A." but 10 and 12 Inches in Thickness, Are Used for 10 and 12-1nch Walls, Respectively. All Lintels for Section "A" Type for Fuirly Wide Openings, Particularly for 10 and 12-1nch Walls, Should Have One or Both of the Cells "T" Filled with Concrete, Reinforced with a Light Rod or Heavy Wire to Prevent Breakage in Handling.

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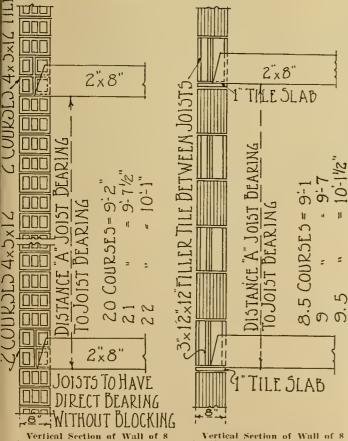
D.5.(12 8,5.4 6,5.12 8,



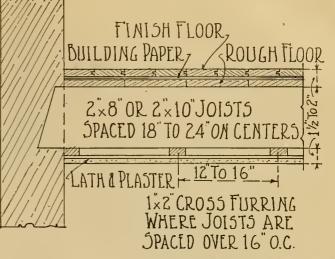
Joist Hangers May Be Used with Varions Types of Lintels ta Keep Head of Window Opening Close to the Ceiling Line.



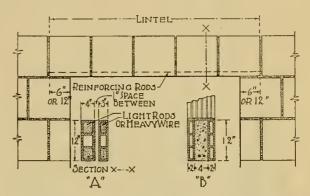
Lintels for Structural Shapes. Section "A" for 8-Inch Walls of 8 by 5 by 12-Inch Tile; Section "B" for 8-Inch Walls of 8 by 12 by 12-Inch Tile. The Size and Weight of Steel Shapes Required by Any Span and Loading May Be Figured from the Carnegie or Other Structural Steel Handbook. These Lintels Should Usually Have 12-Inch Bearing.



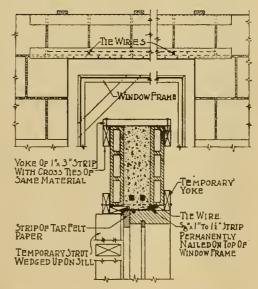
Vertical Section of Wall of 8 by 5 by 12-Inch Load Bearing Tile Laid on the Side. Vertical Section of Wall of 8 by 12 by 12-1nch Lond Bearing Tile Set on End.



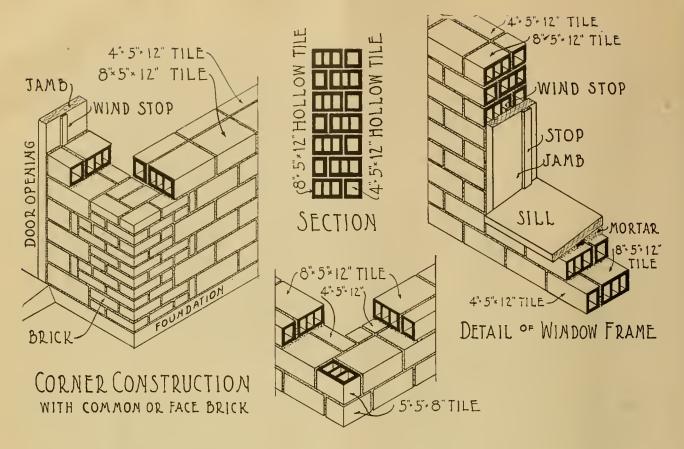
Total Depth of Floor Construction Taken as 10 Inches Where 2 by 6-Inch Joists Are Used; as 12 Inches Where 2 by 8-Inch Joists Are Used, and as 14 Inches Where 2 by 10-Inch Joists Are Used. Actually the Thickness Will Often Average About 1 Inch Less Than These Figures, Which Will Allow for the Leveling Up of Any Irregular Joist. or the Cruss Stripping of Underfloor, so That the Finished Floor May Run in the Same Direction as the Underfloor.

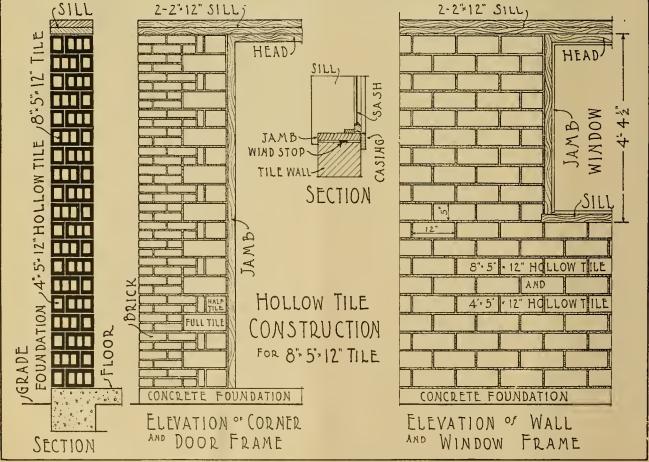


Section "A" for 8-Inch Walls of 8 by 12 by 12-Inch Tile; Section "I" for 4-Inch Walls of 4 by 12 by 12-Inch Tile and for Combining with Section "A" to Form Lintel for 12-Inch Wall. Lintels Made of Single Blocks Similar to Section "A" but 10 and 12 Inches in Thickness, Are Used for 10 and 12-Inch Walls, Respectively. All Lintels for Section "A" Type for Fairly Wide Openings, Particularly for 10 and 12-Inch Walls, Should Have One or Both of the Cells "T" Filled with Concrete, Reinforced with a Light Rod or Heavy Wire to Prevent Breakage in Handling.

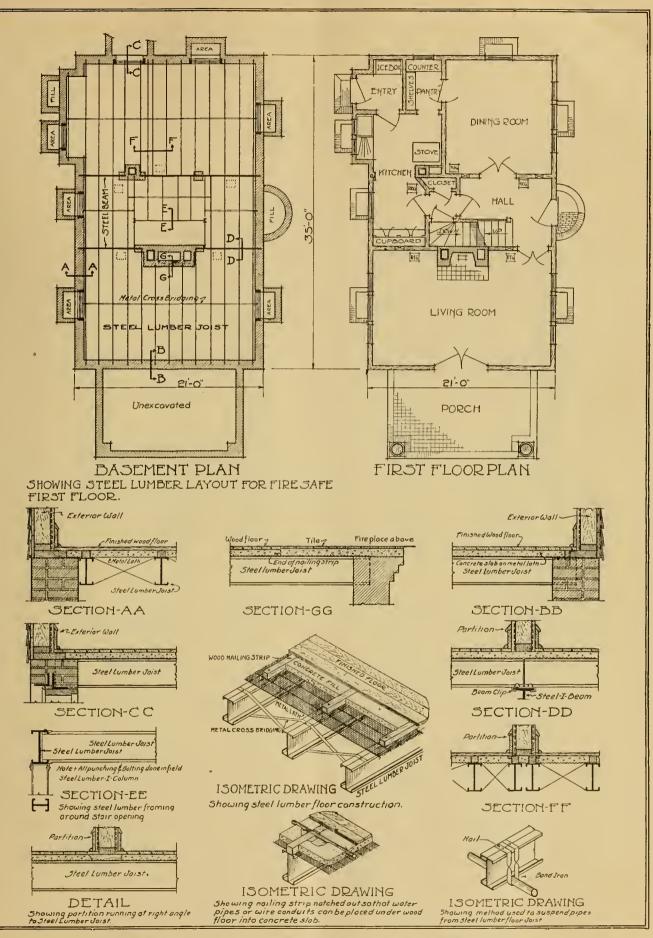


Details for Temporary Form Used for the Building of Lintels.

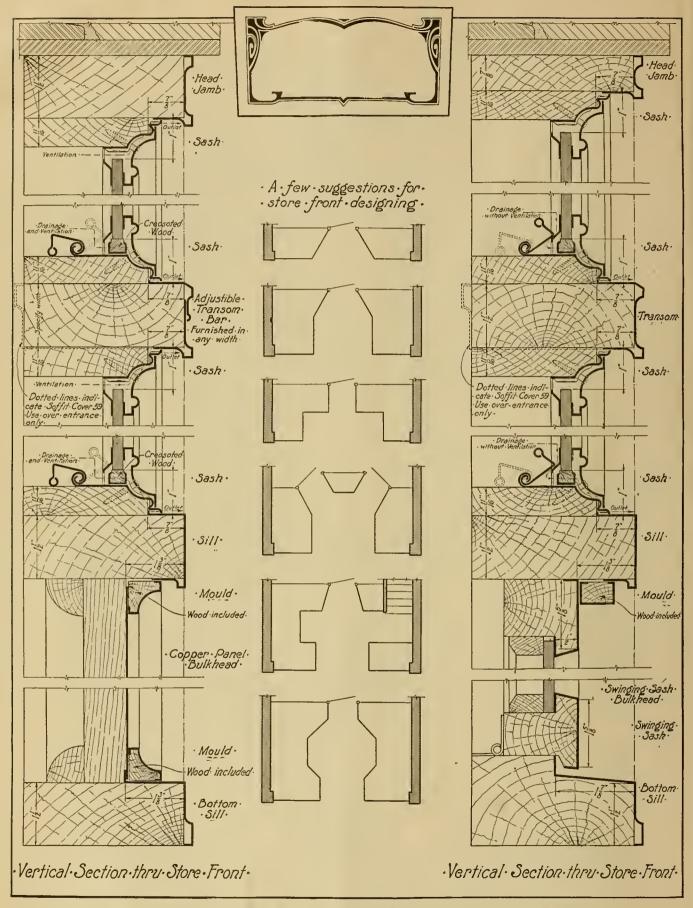




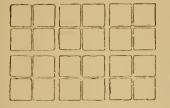
Complete Construction Details of a 12-Inch Basement Tile Wall Using 8 by 5 by 12 and 4 by 5 by 12 Tile.



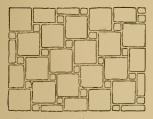
Essentials of Steet Lumber Floor Construction as Used in Average Masonry Dwellings.



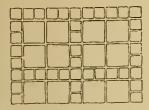
Flour Plans and Typical Details of Construction for Modern Display Windows for Stores.



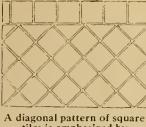
By groups of four squares as a unit separated by wider joints, the scale is increased.



When the small squares are less than one-quarter of the area of the large squares, the pattern runs off at the side.



• Another way to increase the scale with small tiles.



tiles is emphasized by a border.

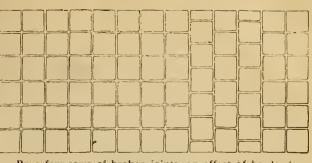
When the small squares are one

quarter of the area of the

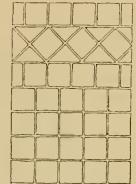
large squares, the pat-

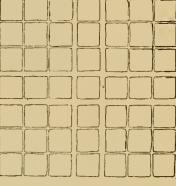
tern has more re-

pose.

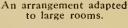


By a few rows of broken joints, an effect of border is produced in a field of square tiles.





By breaking joints in one course, the border is made wide.





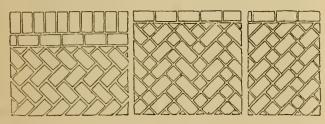
When square tiles are laid with broken joints, long lines in one direction are the result.



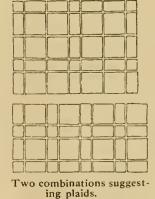
When double squares are laid "basket pattern," the necessary allowance for joints adds interest.

A decorative pattern that can be made on the job.

A good pattern for corridors.



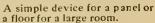
Varieties of "herringbone."



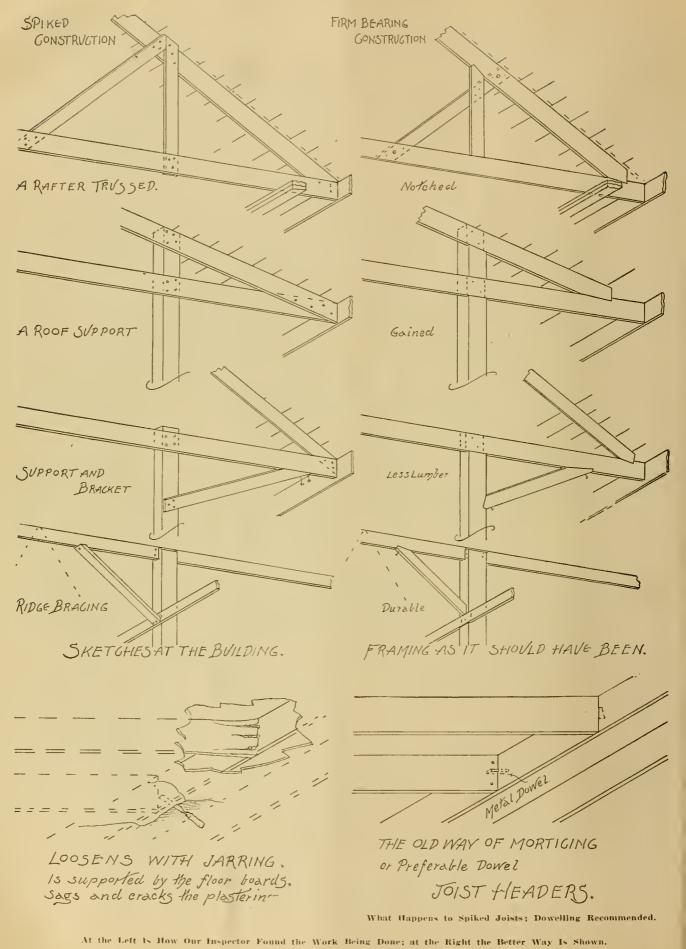
The simplest floor of square

tiles is interesting if the

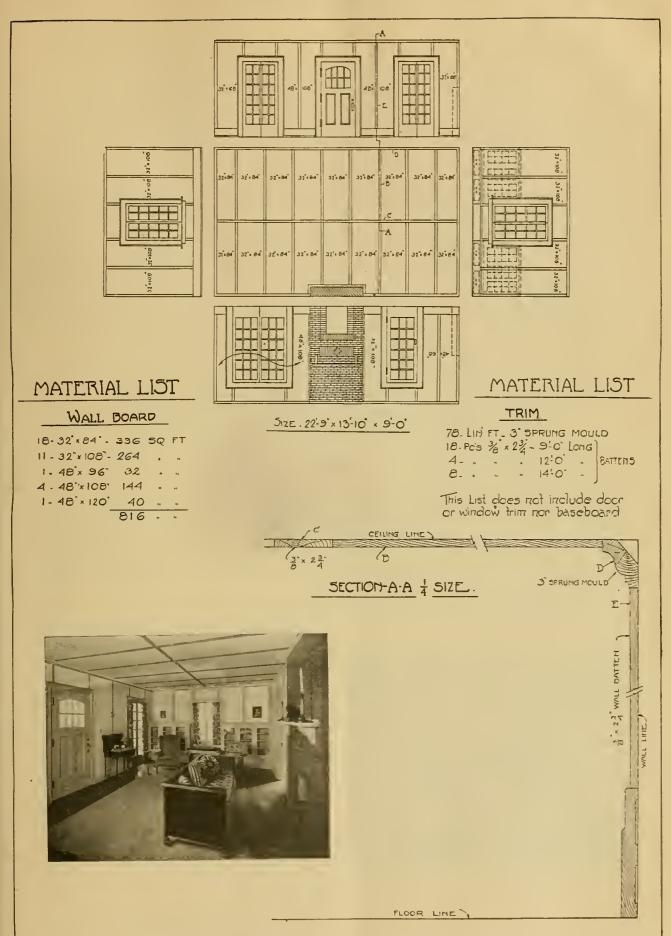
joints are in scale.



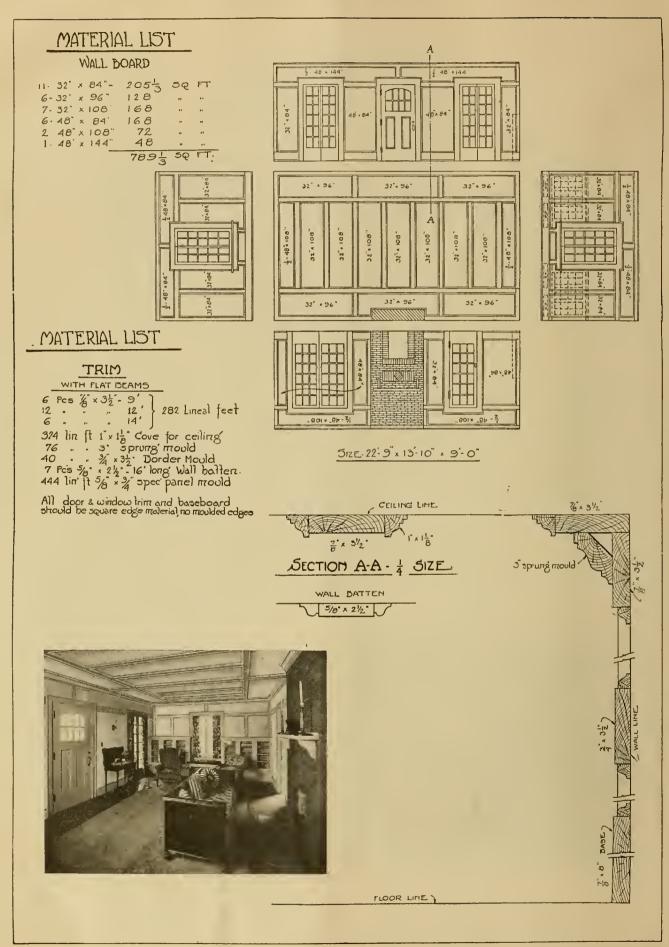
SUGGESTIVE PATTERNS FOR THE FLOORS.

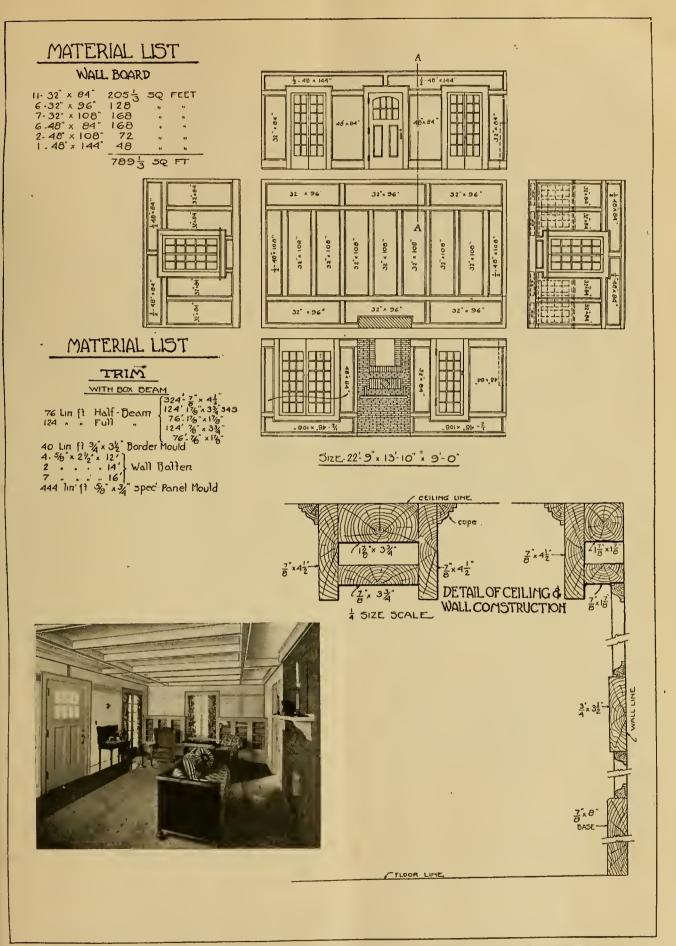


GOOD AND BAD IN CARPENTRY WORK.

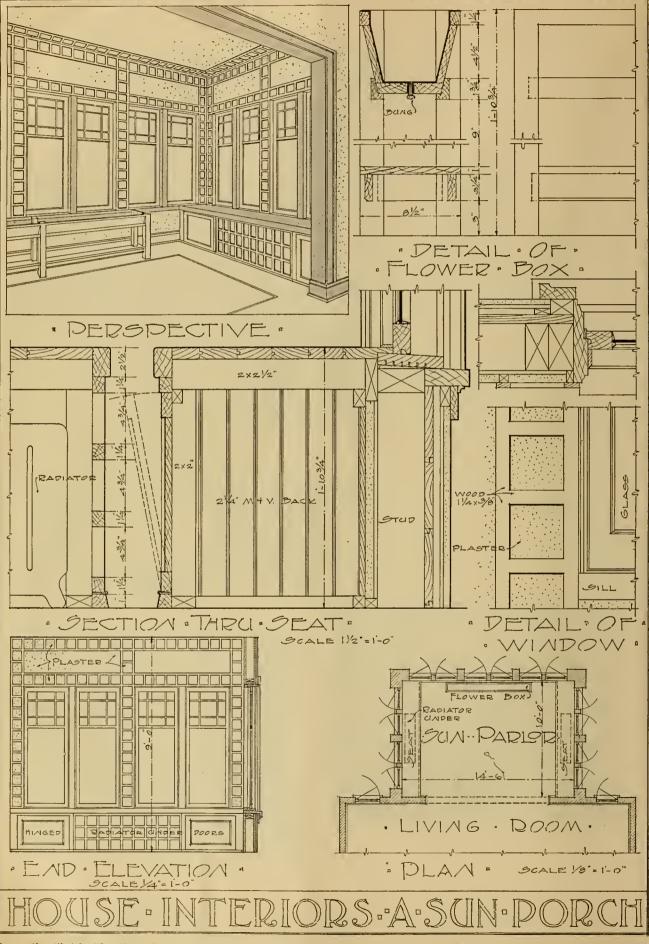


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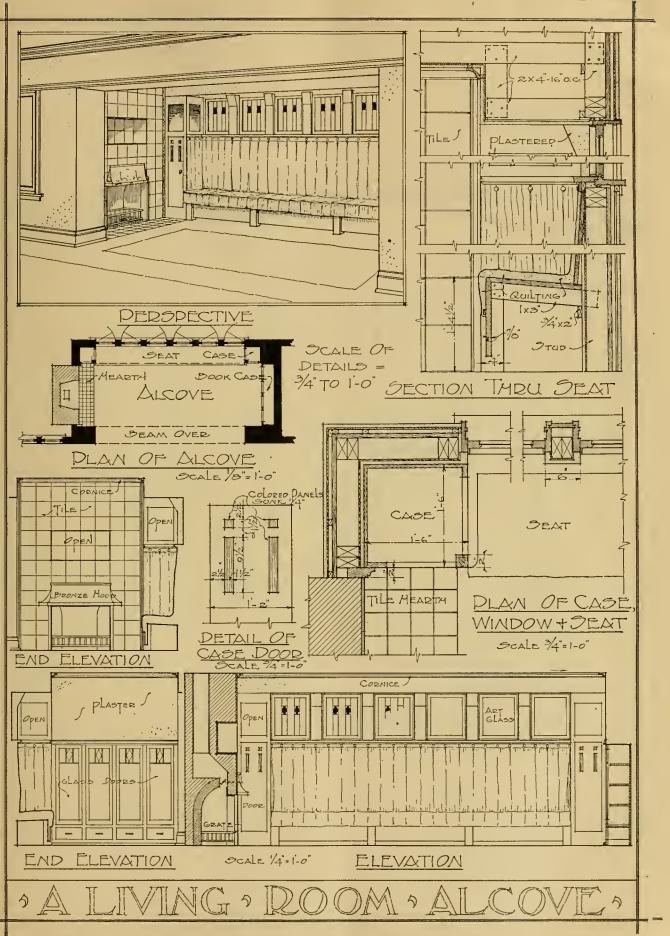




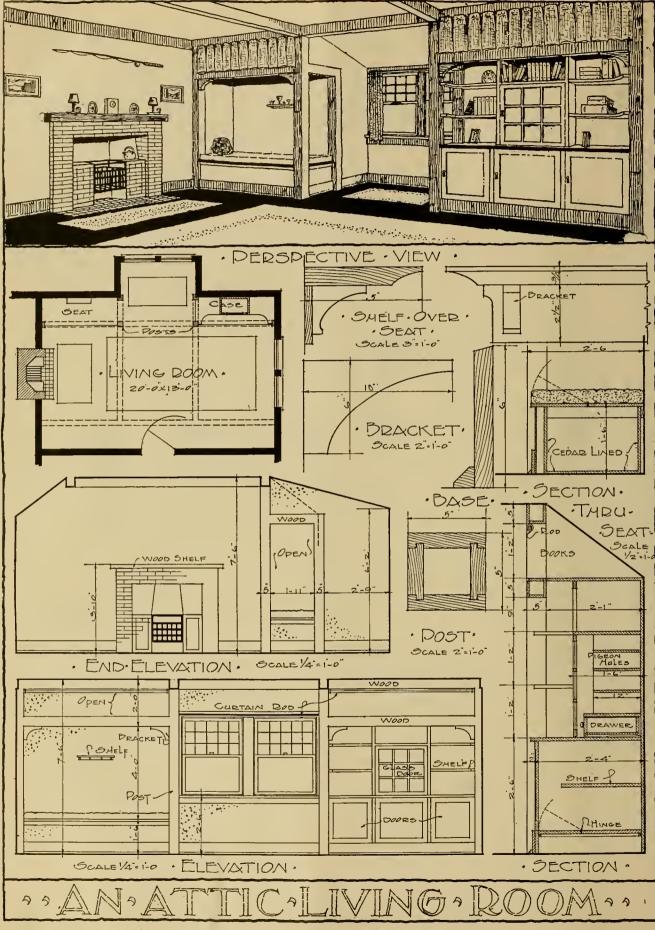
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Perspective Sketch, Elevation, Plan and Construction Details of a Sun Parlor Finished in Lattice Style Suggesting the Outdoors.

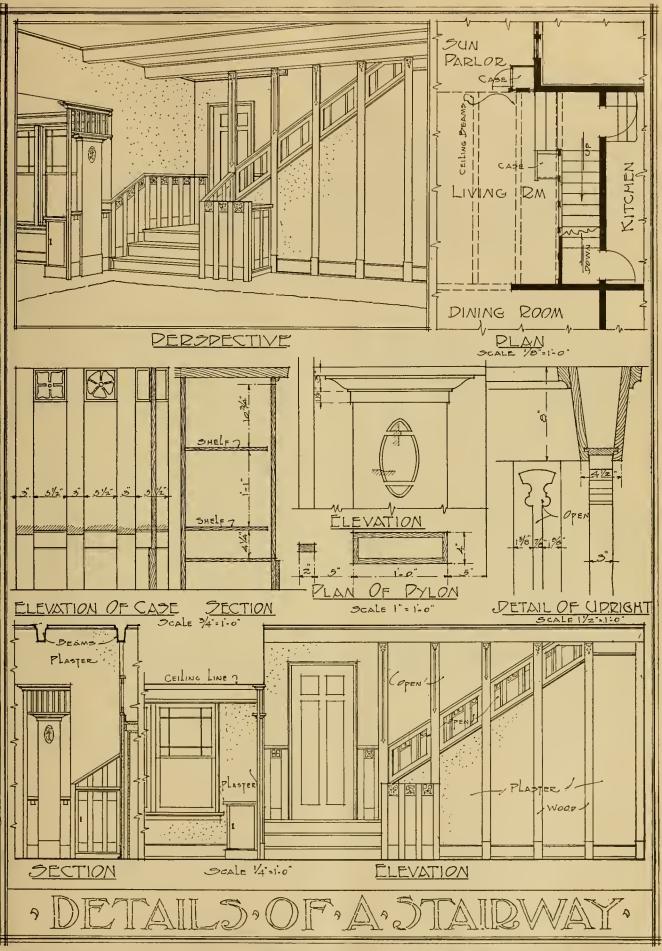


Architect's Sketch Showing Details of Living Room Alcove, Including Comfortable Upholstered Seat with Art Glass Windows Above, Bookcases and Fireplace in Tile with Bronze Hood.

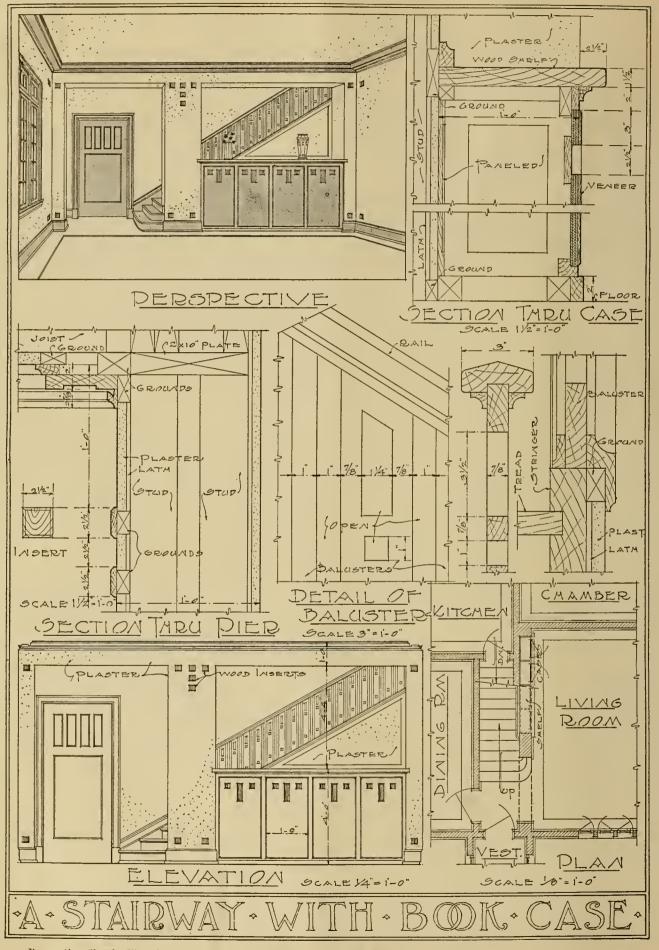


Sketch, Plan, Elevations and Construction Details of an Attic Living Room.

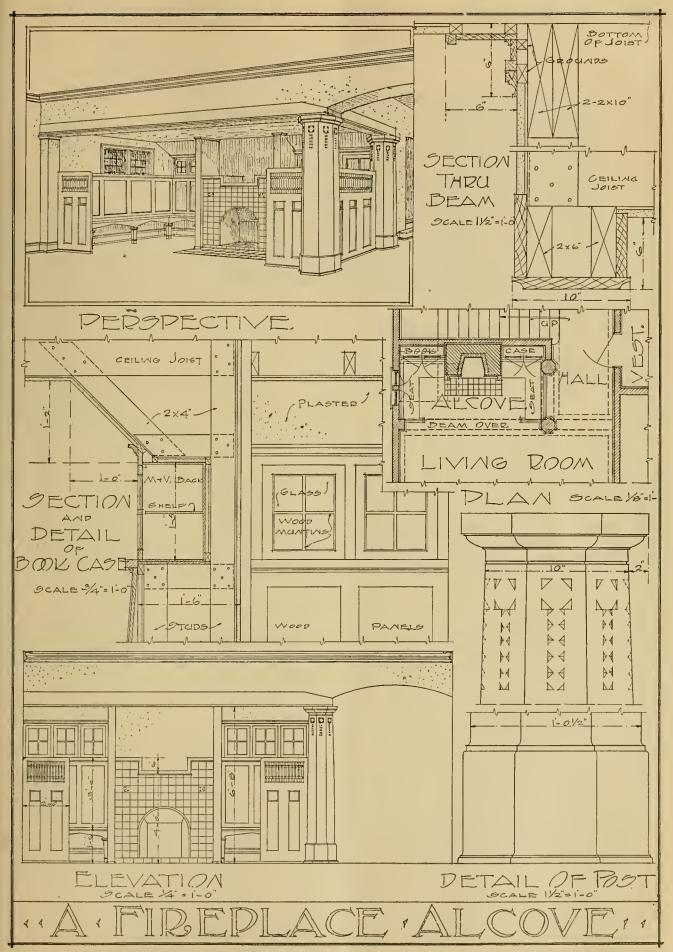
32



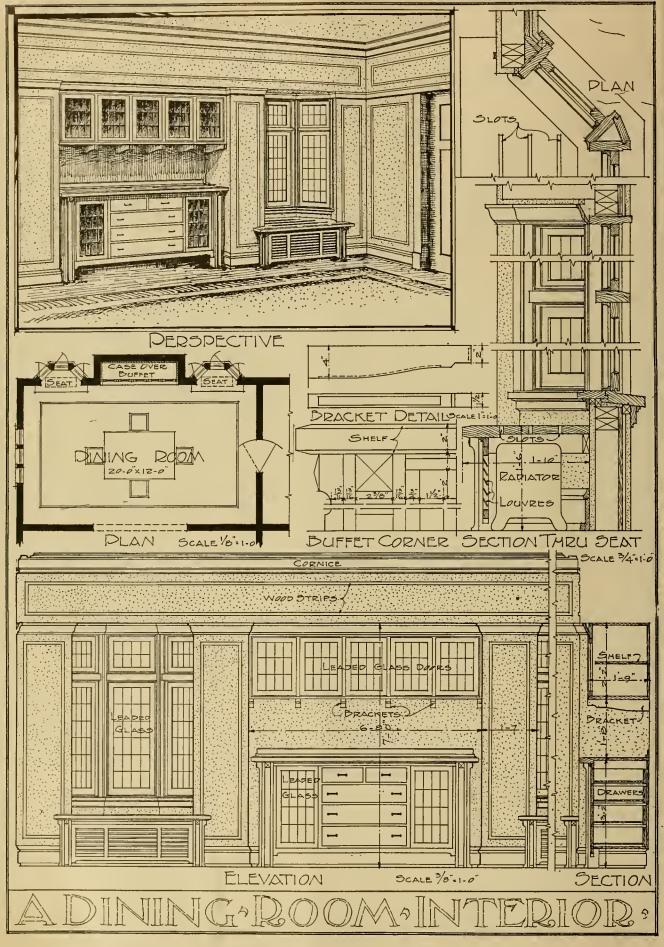
Perspective Sketch, Floor Plan and Details of Open Stairway Going Up Out of a Living Room. A Design of Considerable Originality.



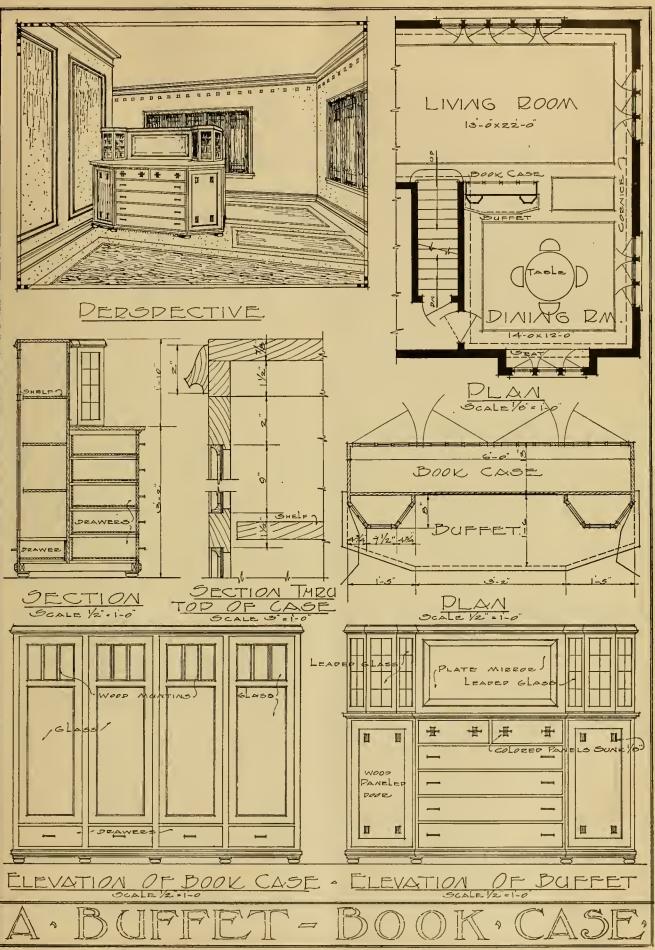
Perspective Sketch, Elevation, Plan and Scale Details of Semi-Open Stair Handled in the Modern Straight Line Style.



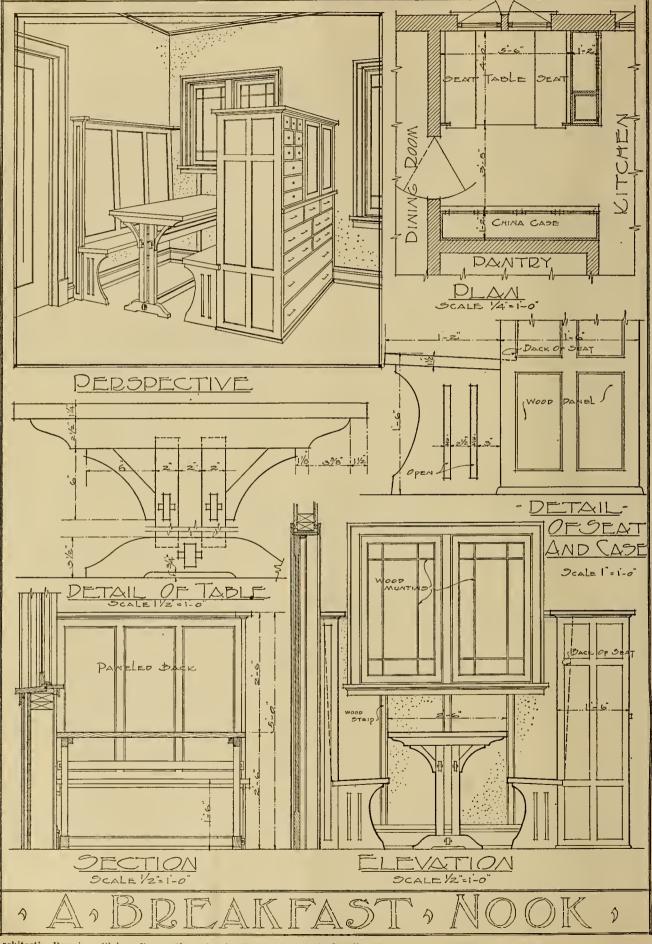
Sketch, Elevation, Plan and Details of Fireplace Alcove Suitable for Large Elaborate Living Room.



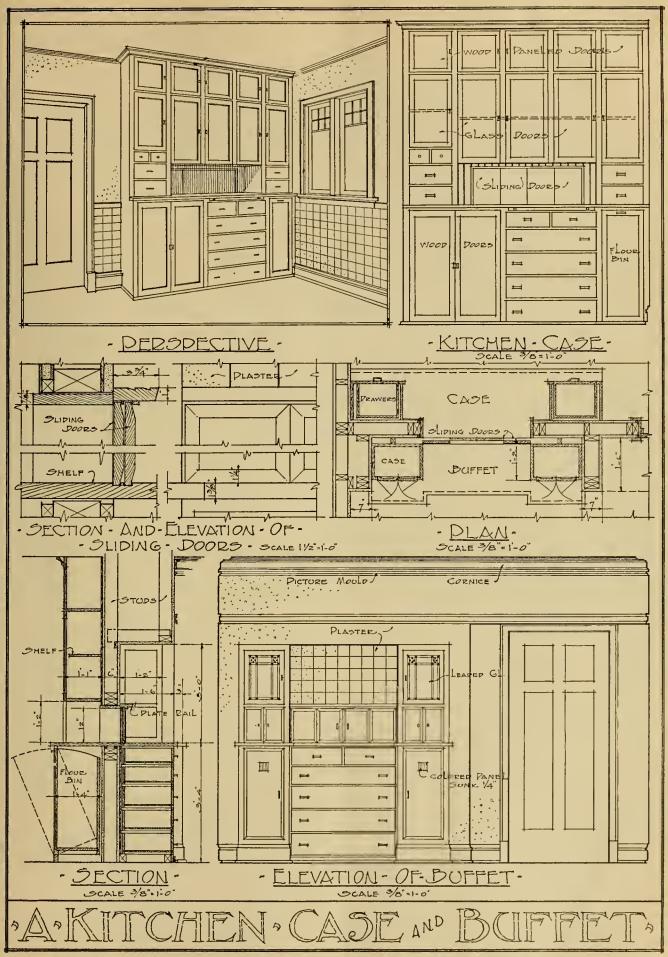
Sketch, Floor Plans, Elevations and Details of Interesting Dining Room Interior.



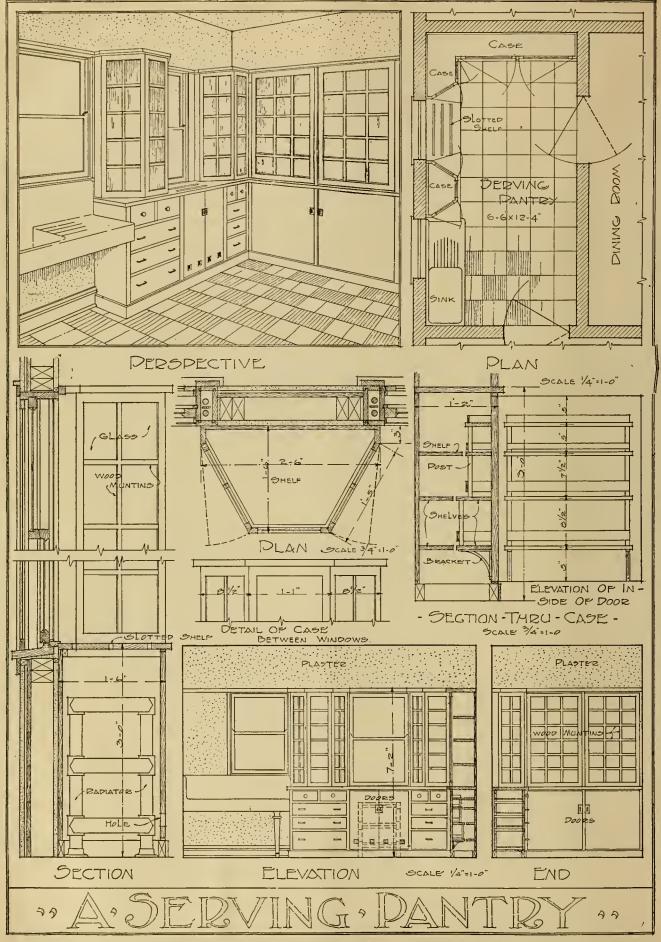
Perspective Sketch, Floor Plan, Elevation and Details of a Combined Buffet and Book Case, Arranged to Form a Half Partition Between a Dining Room and a Living Room.



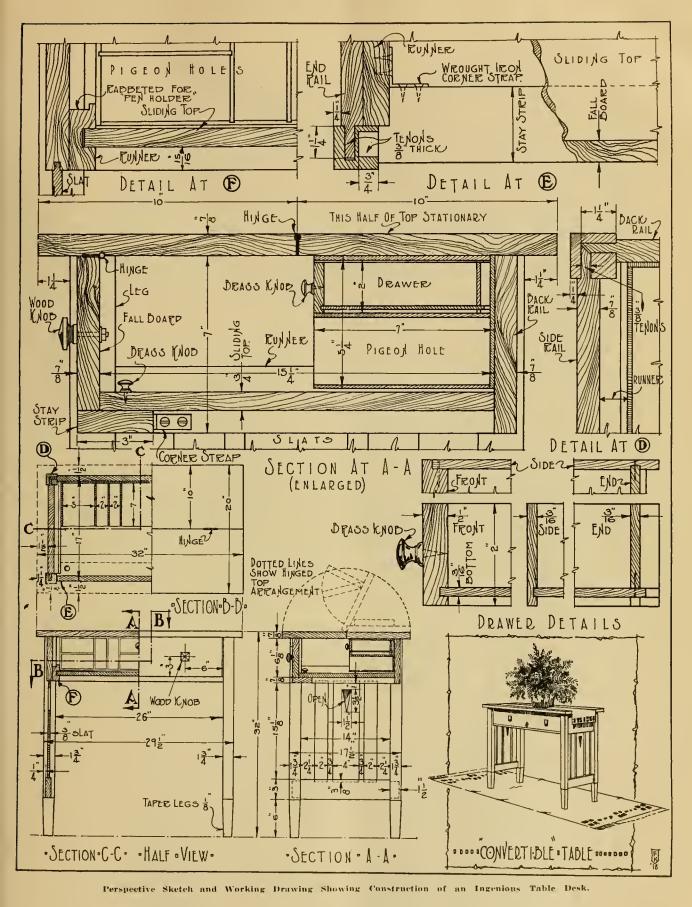
Architect's Drawing Giving Perspective Sketch, Floor Plan and Details of a Very Interesting Breakfast Alcove Formed, by Kitchen Cabinet.

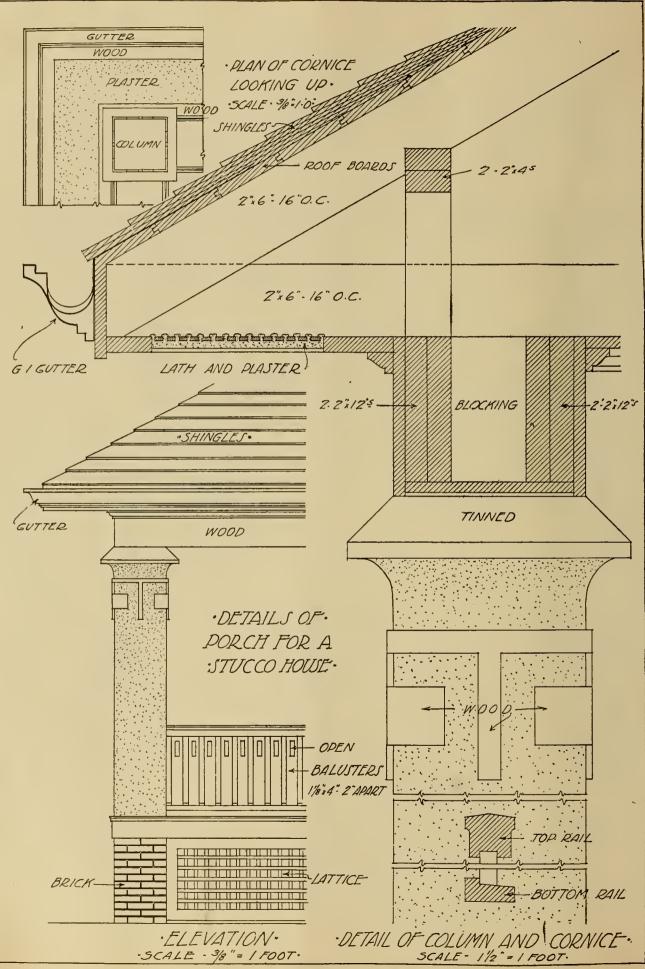


Details of a Commodious Cabinet and Sideboard to Be Built Into the Wall Between the Dining Room and the Kitchen.

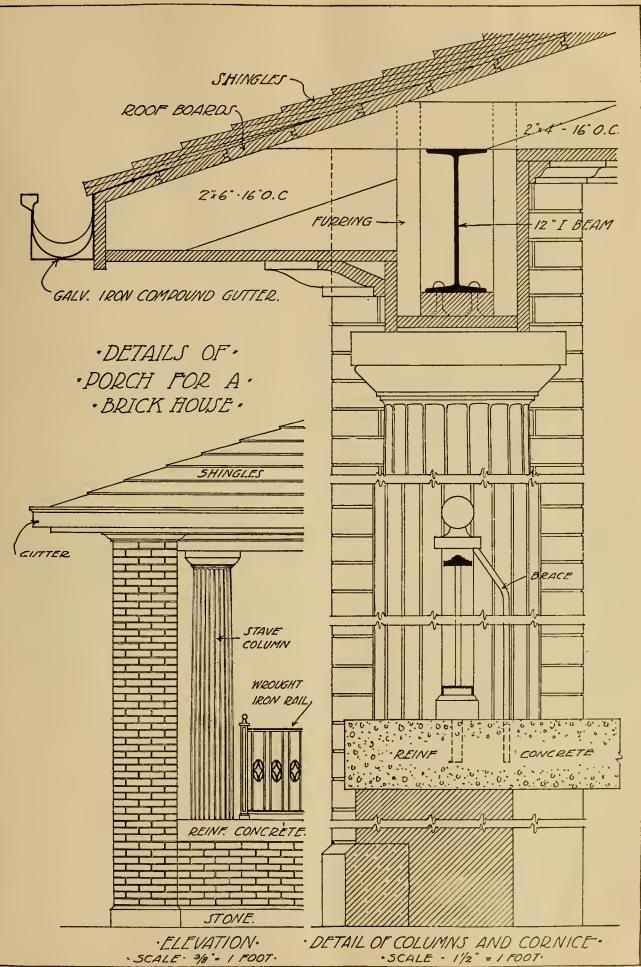


Perspective Sketch, Plan and Details of a Well Equipped Serving Pantry.

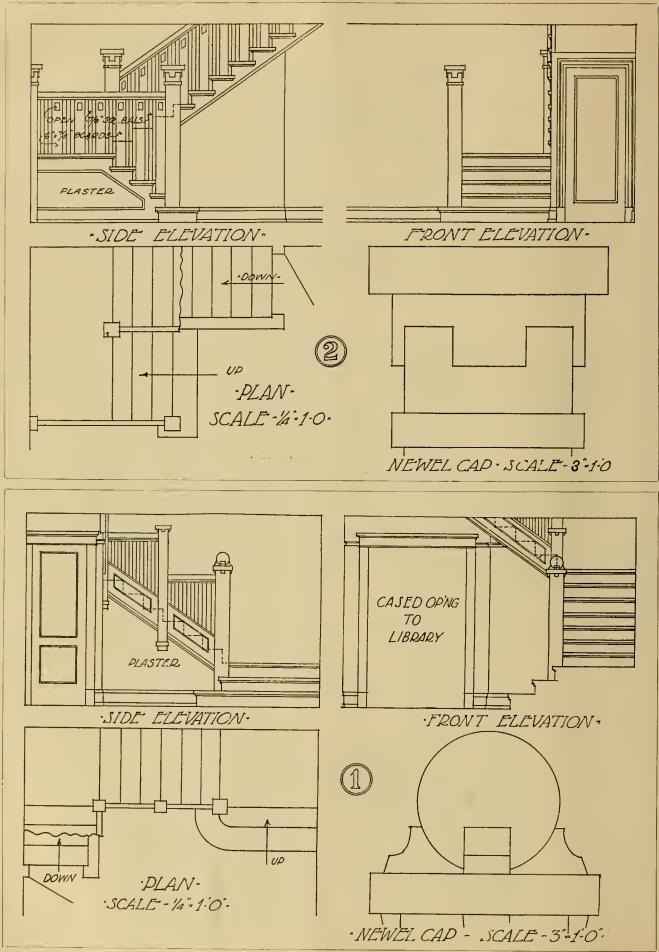




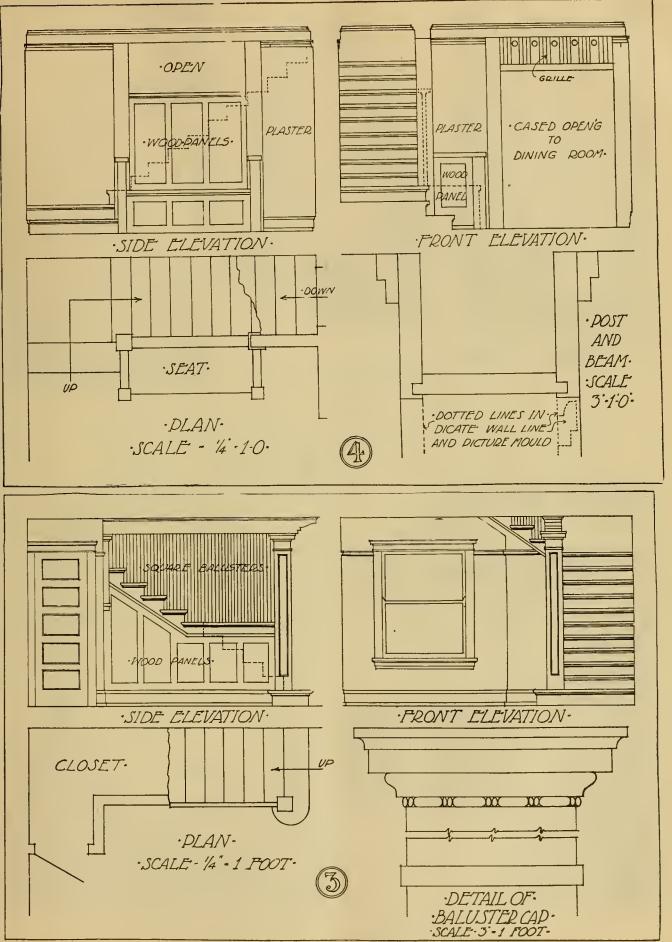
Design and Details of Modern Style Stucco Porch.

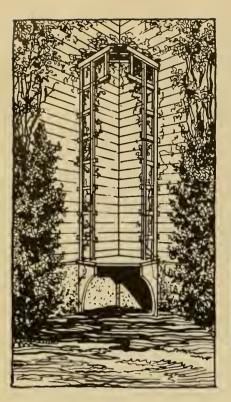


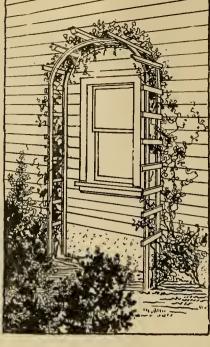
Colonial Porch With Both Brick and Stave Columns.



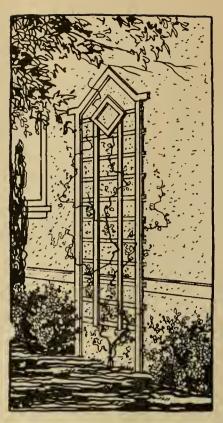
Two Stair Designs.





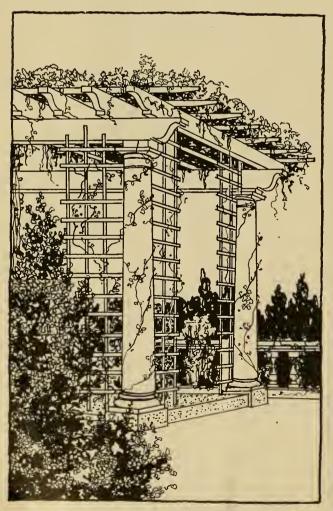


Arch Trellis Over a Window.



Corner Trellis and Flower Pot Shelf.

Lattice Ornament for Wall.

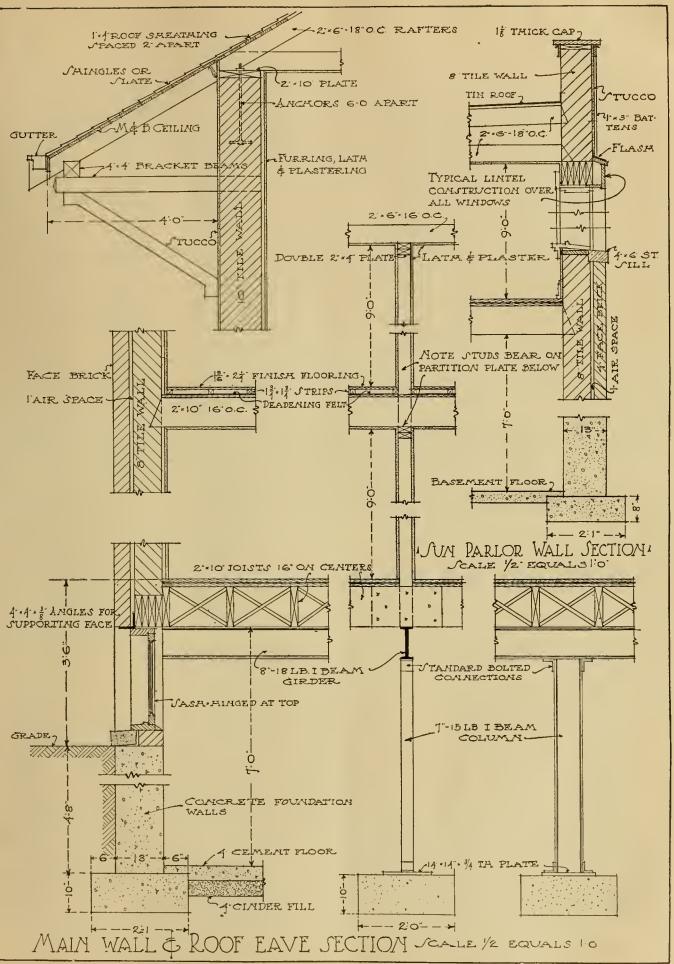




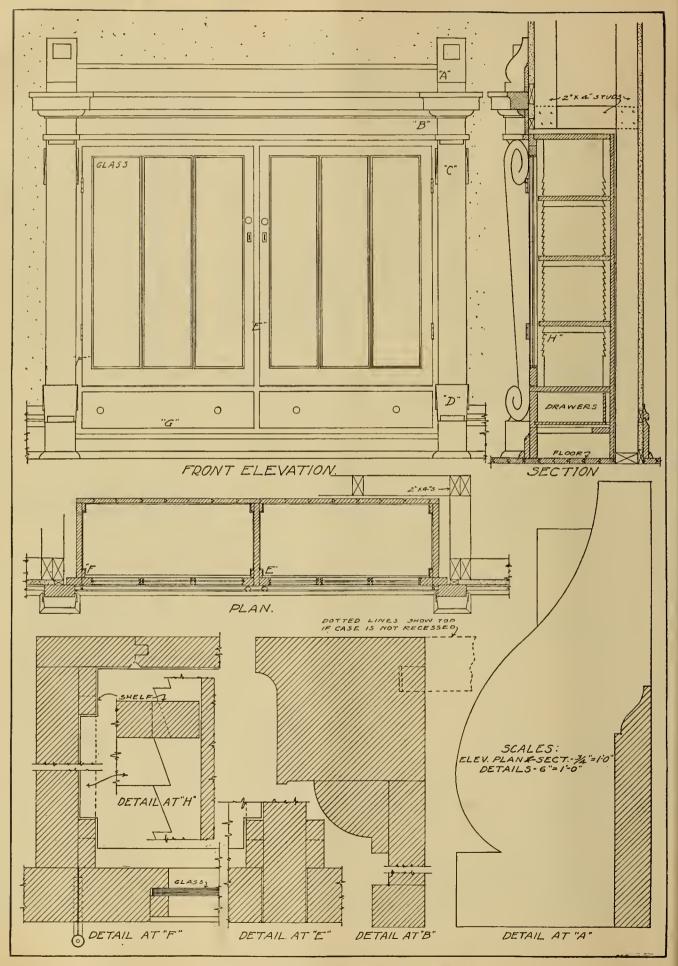


A Trellis and Seat Entry,

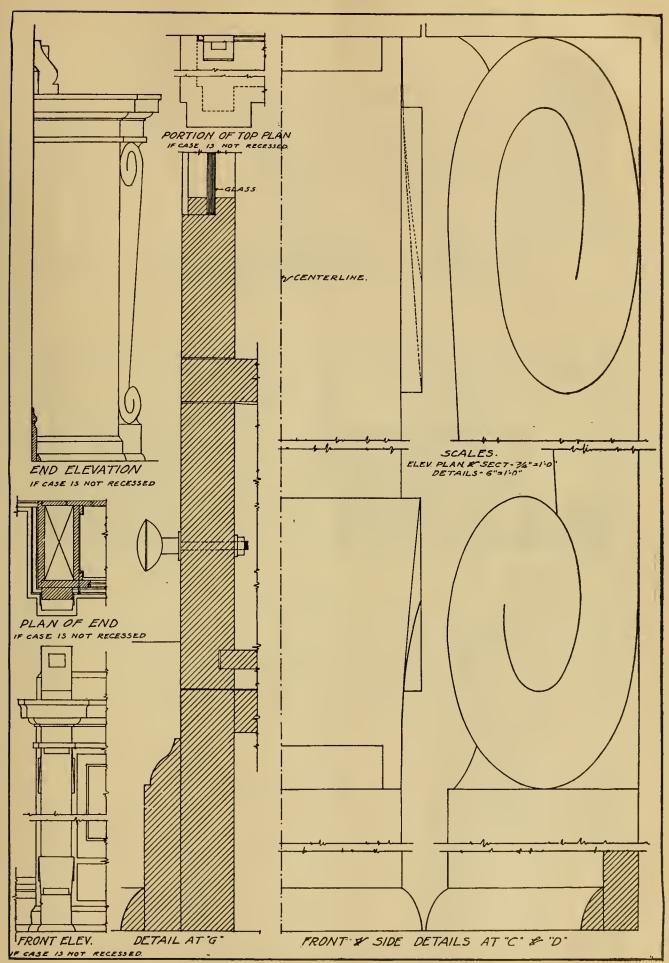
VINE TRELLISES AND ORNAMENTAL FEATURES.



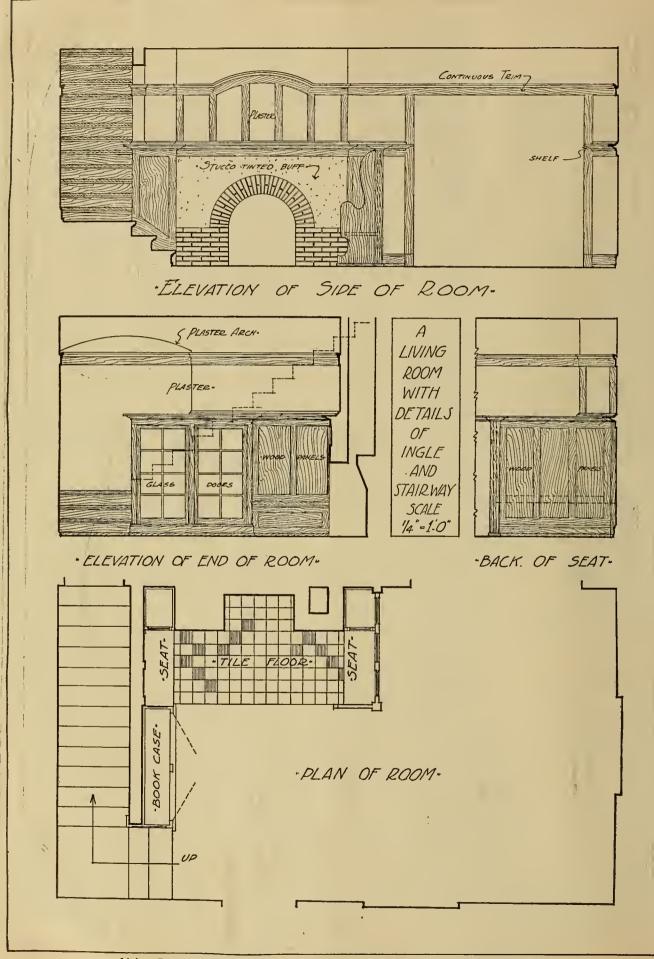
How to Fasten Wood Rafters and Plate to Tile Wall, and How to Seat Joists on Tile.



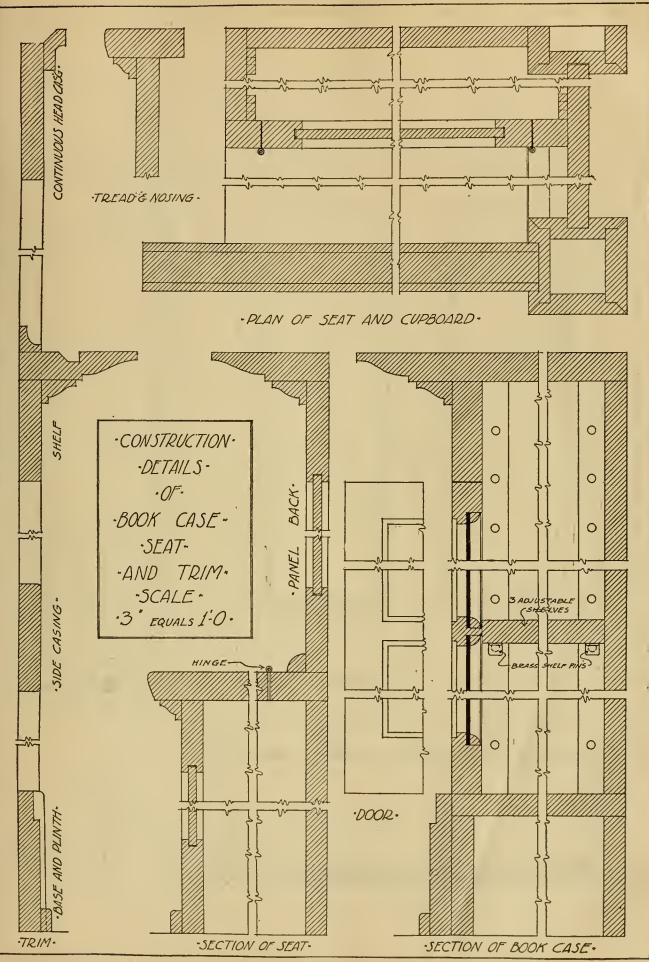
Built-In Colonial Book Case-Recessed (See Opposite Page).



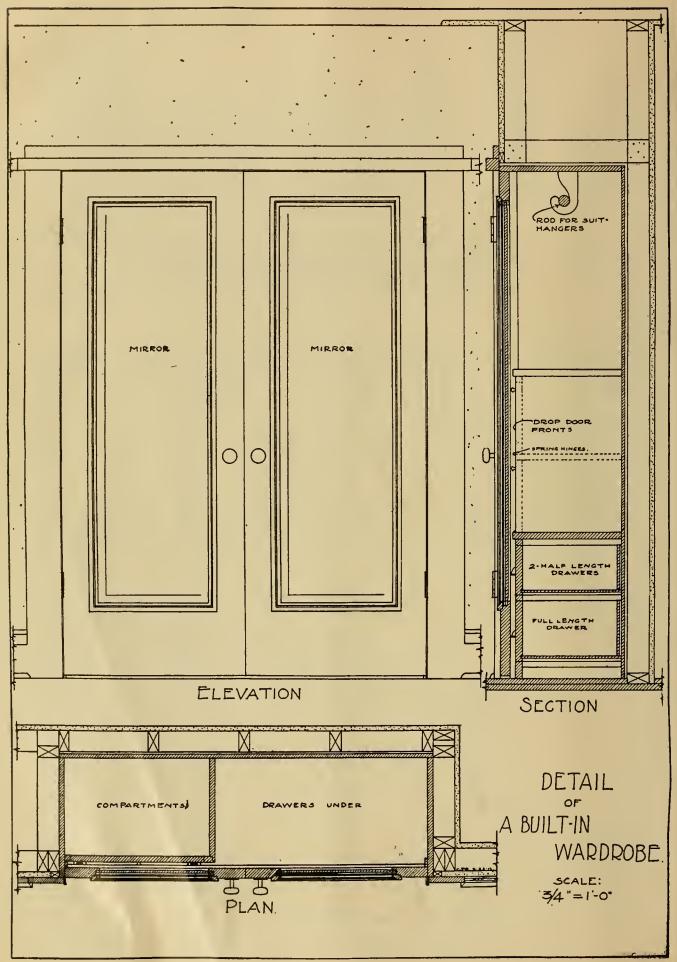
Arrangement of Book Case to Project Into Room (See Opposite Page).

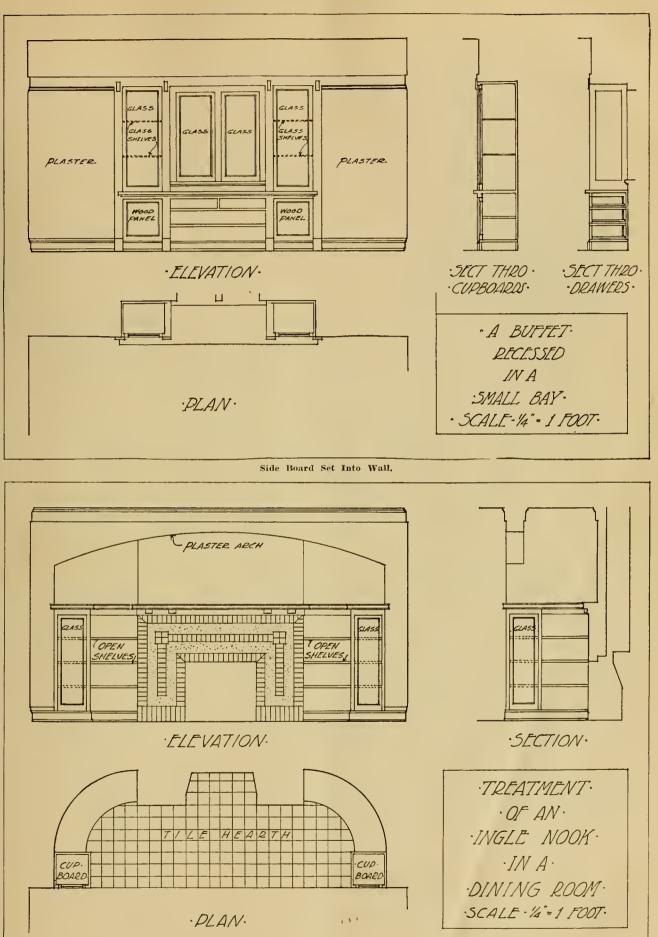


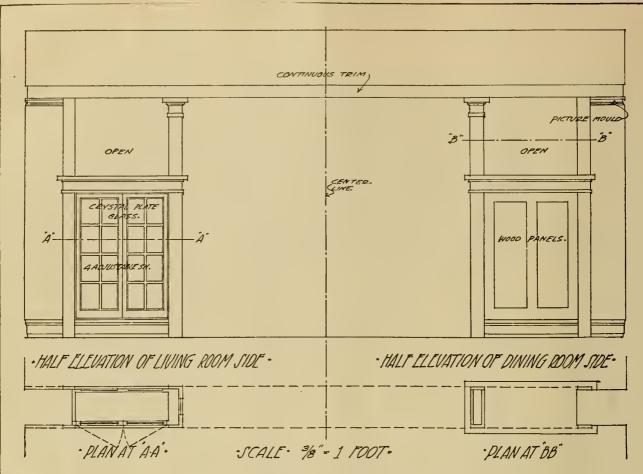
Living Room, with Ingle, Built-In Case and Stair (See Opposite Page for Details).



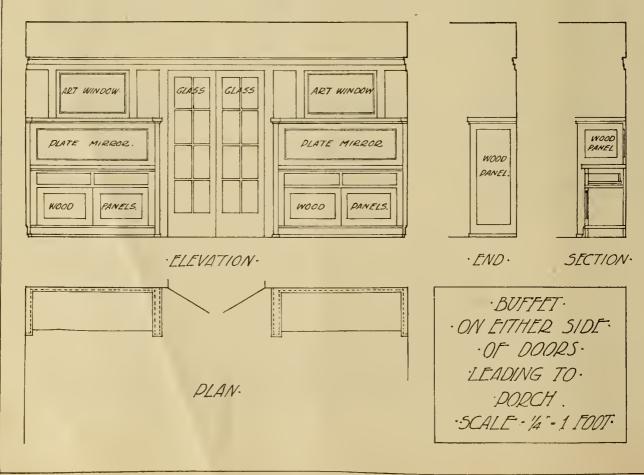
Details of Built-In Case, Seat, Etc., Used in Living Room Design on Opposite Page.





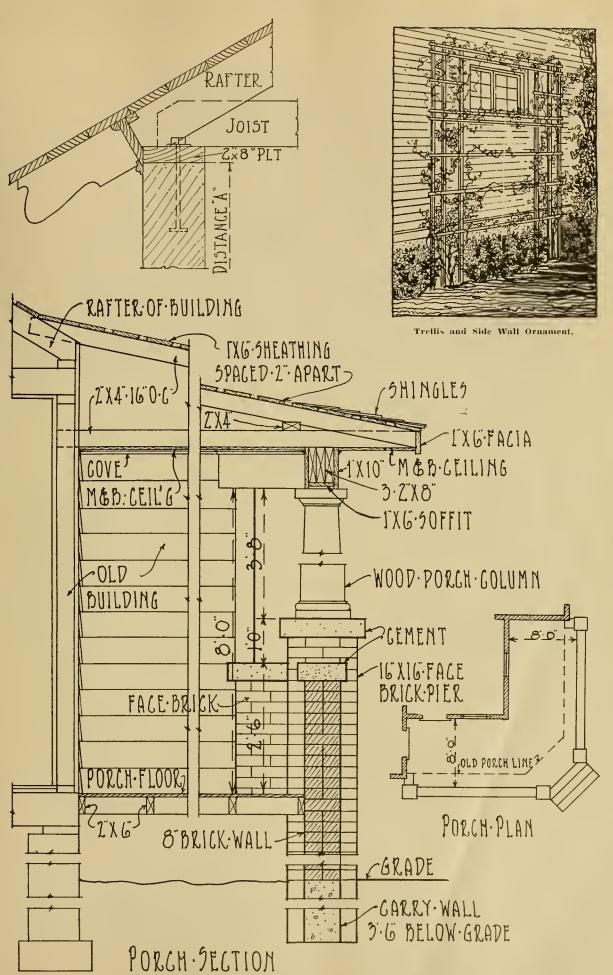


Scale Drawings of China Closet Colonnade Between Dining and Living Rooms.

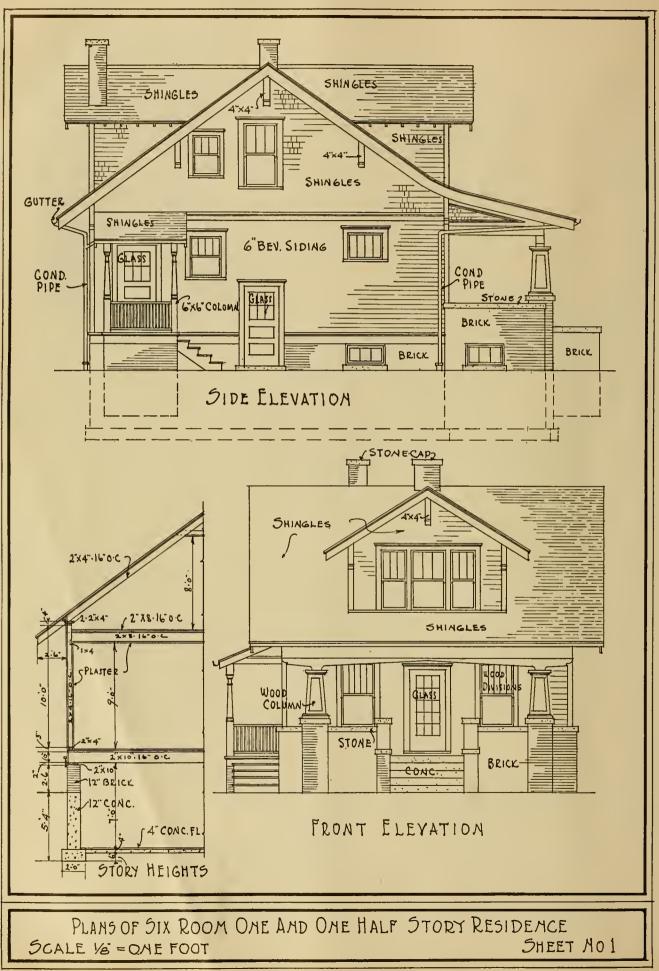


A Built-In Side Board Novelty.

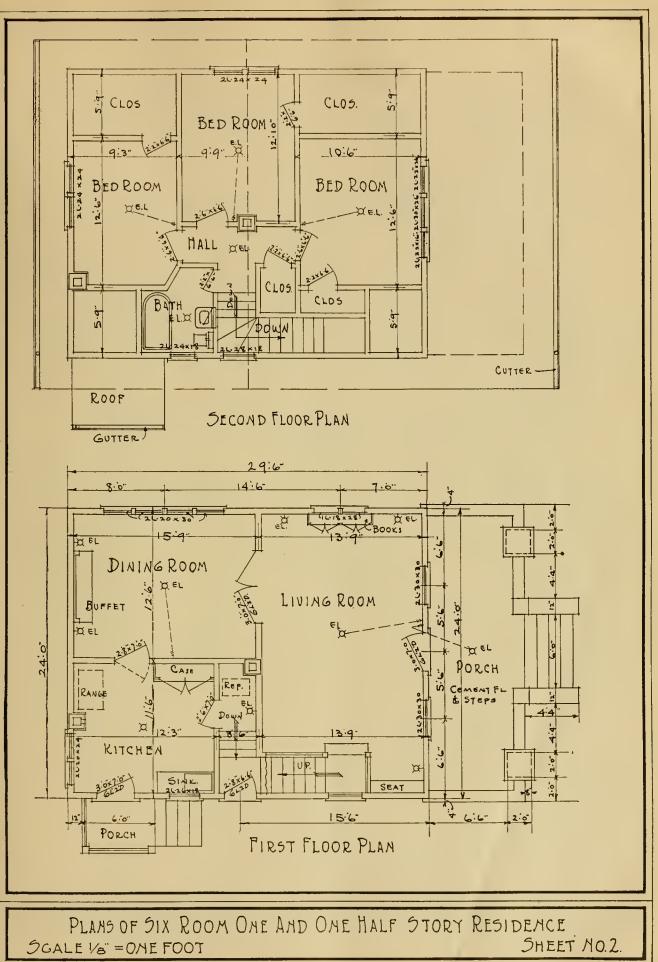
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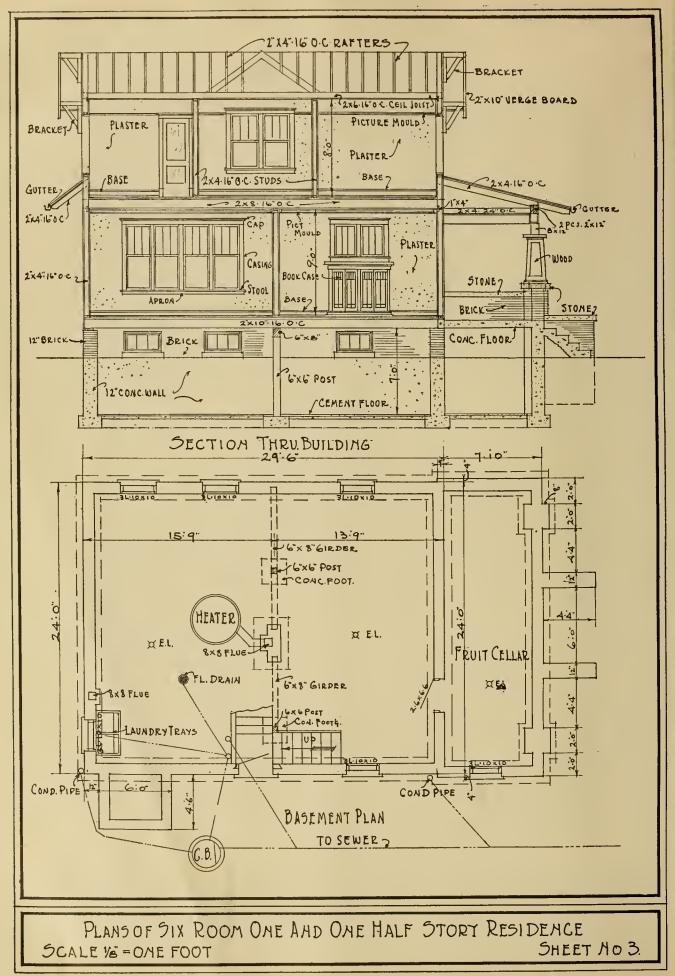


How to Build on a New Brick Porch, Showing Details of a Modernized Porch Suggested as a Substitute for the Old Porch.

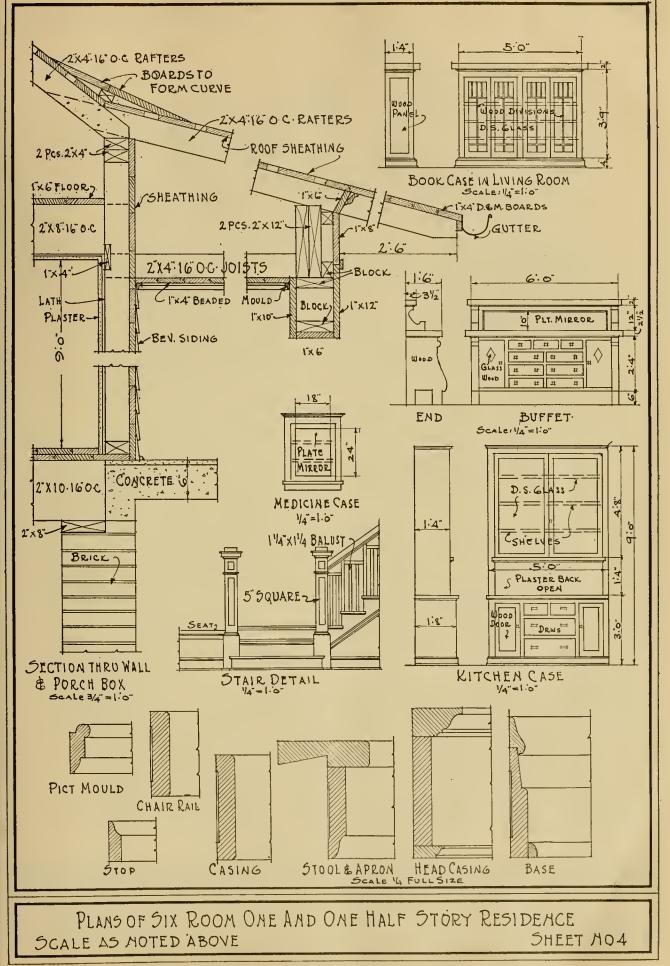


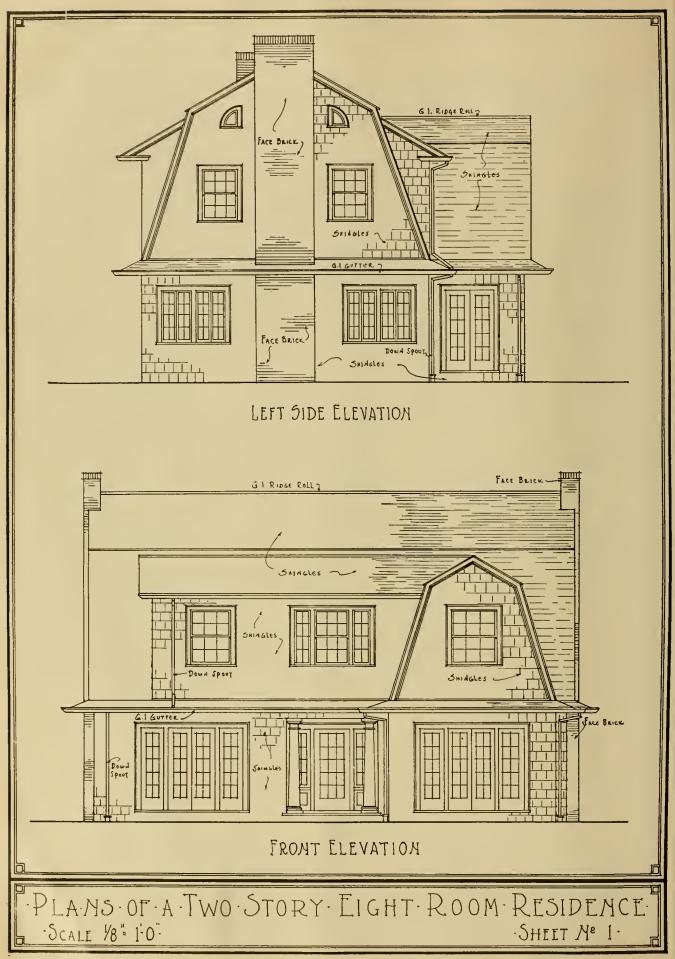
Front and Side Elevations and Wall Section 1/8 Inch to the Foot of Pretty Little Six-Room Home.



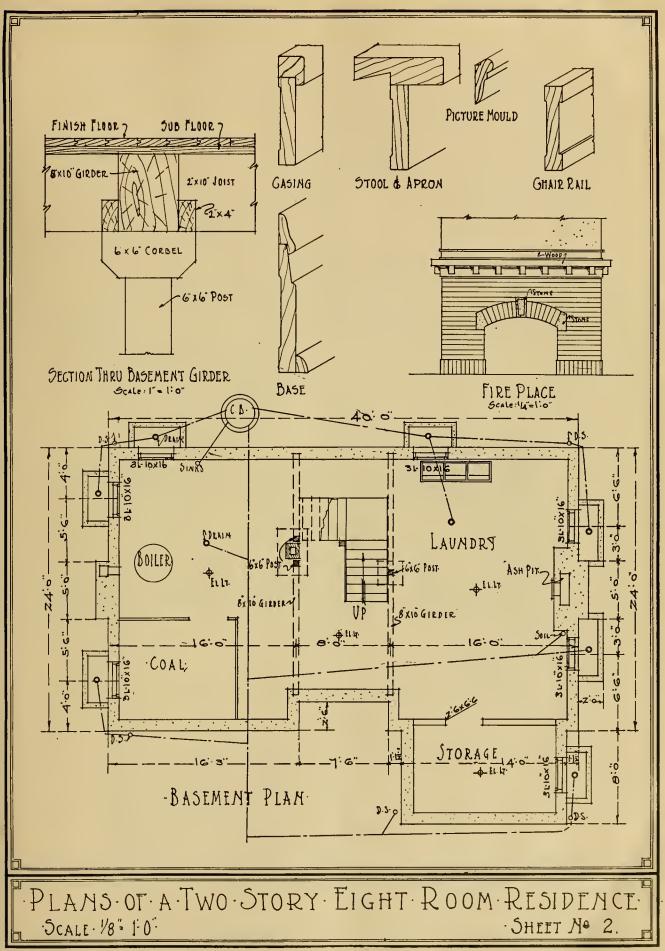


Busement Plan and Section Thru Building Showing Construction 1/2 Inch to the Foot of Pretty Little Six-Room Home.

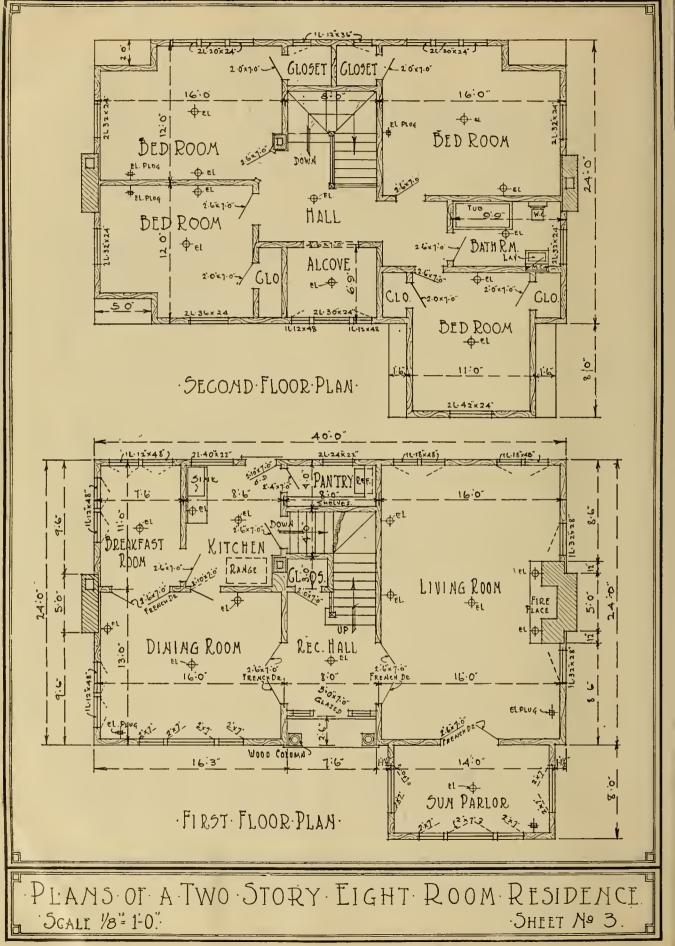


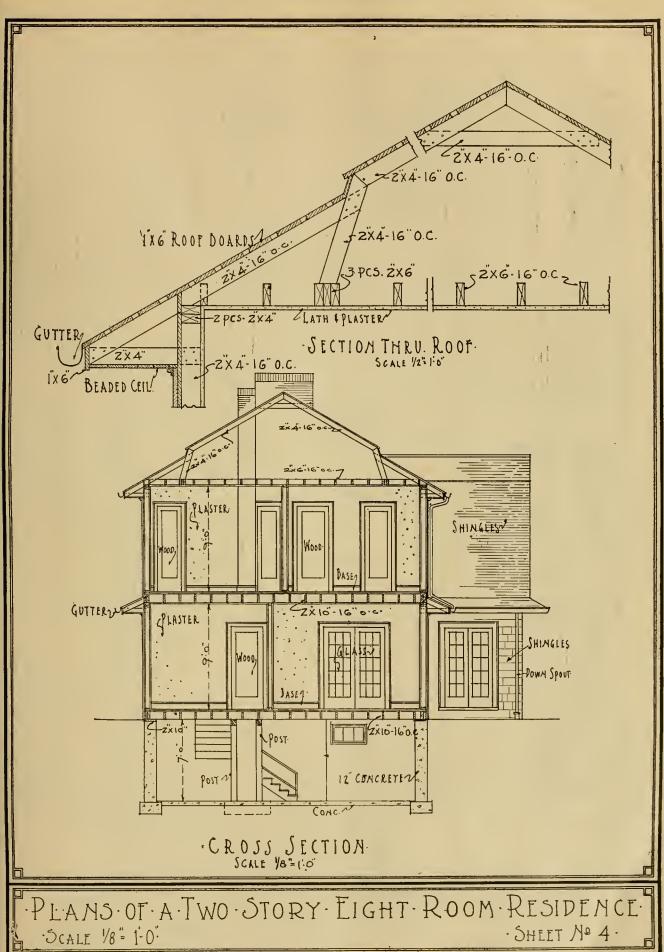


Front and Side Elevations, Scale 1/2 Inch Equals One Foot, of Dutch Colonial Residence.

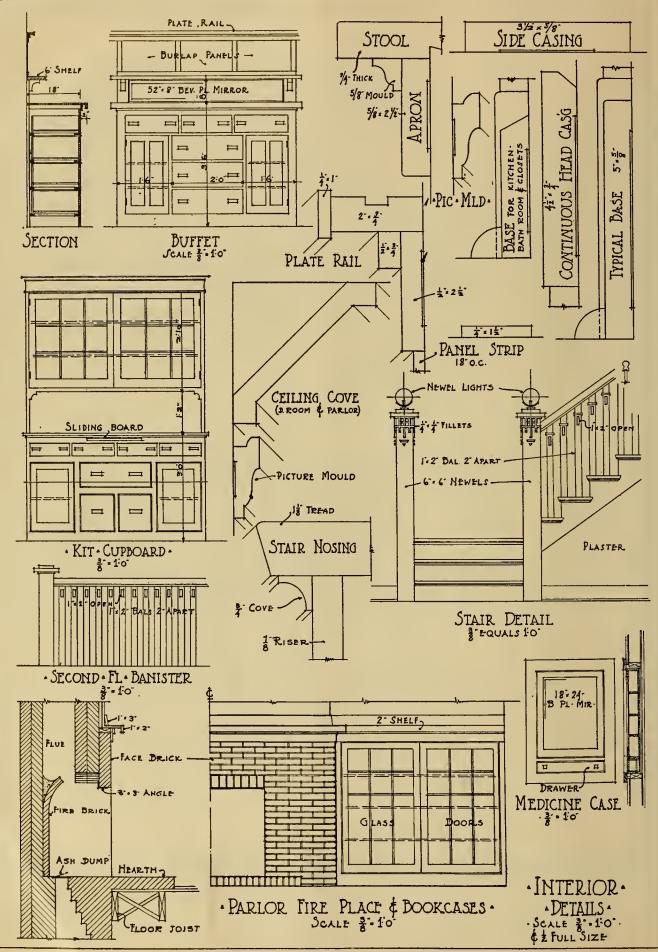


Basement Plan and Details, 1/8-, 1/4- and 1-Inch Scales, of Dutch Colonial Residence.

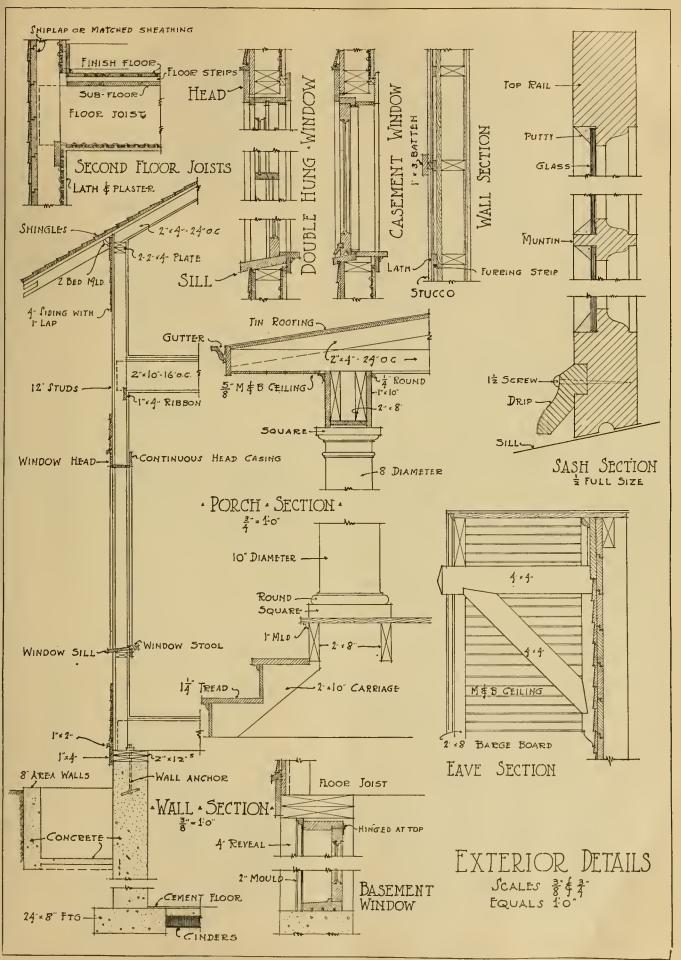




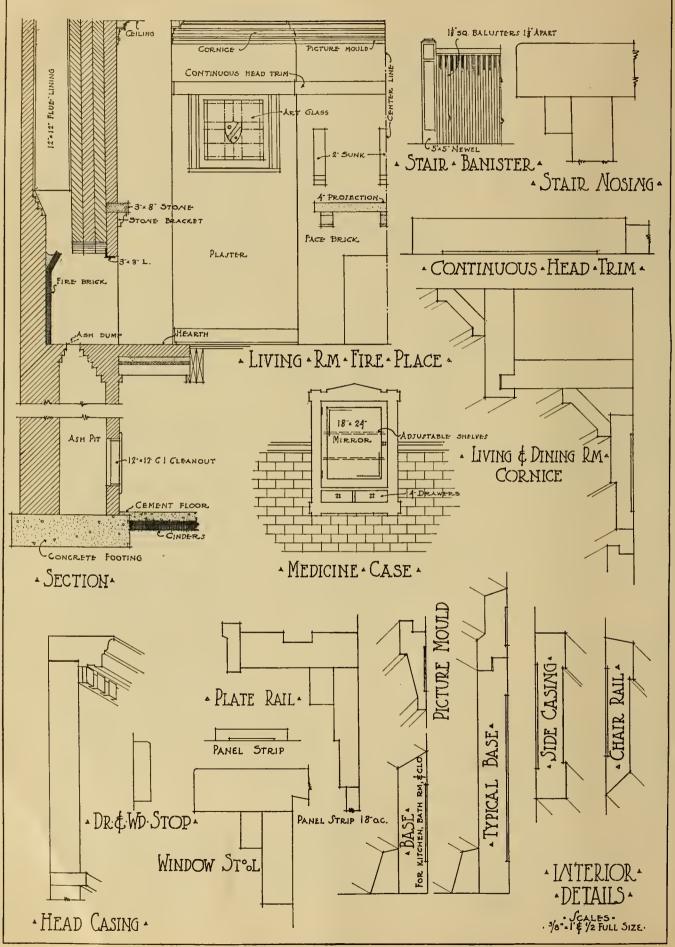
Section and Construction Detall, Drawn to 3/2- and 3/2-tuch Scales, of Dutch Colonial Residence.

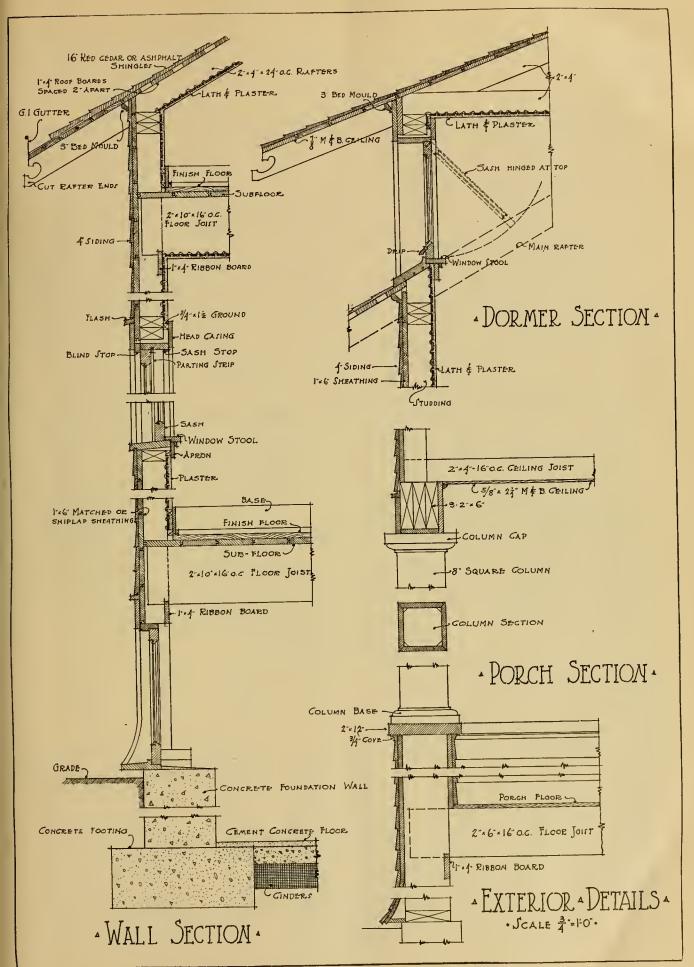


Typical Interior Details of Southern Style Residence.



Exterior Details of Construction, to Scale, of Southern Style Residence.

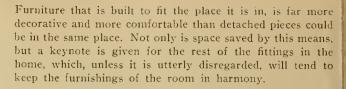




# Built-in Furniture--Some Interesting Designs

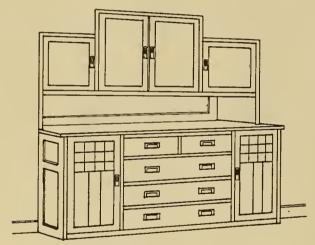
**O**<sup>NE</sup> of the charms of the interior of any home is the furniture which is built into it. The dressers, seats, bookcases more than half solve the problem of furnishing it.

Large Kitchen Cupboard, Lighted at Center by Casement Window.

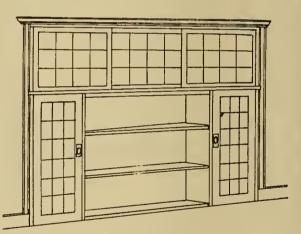




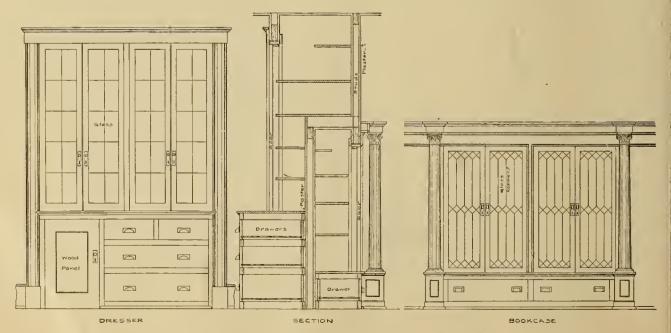
Kitchen Cupboard of Generous Dimensions.

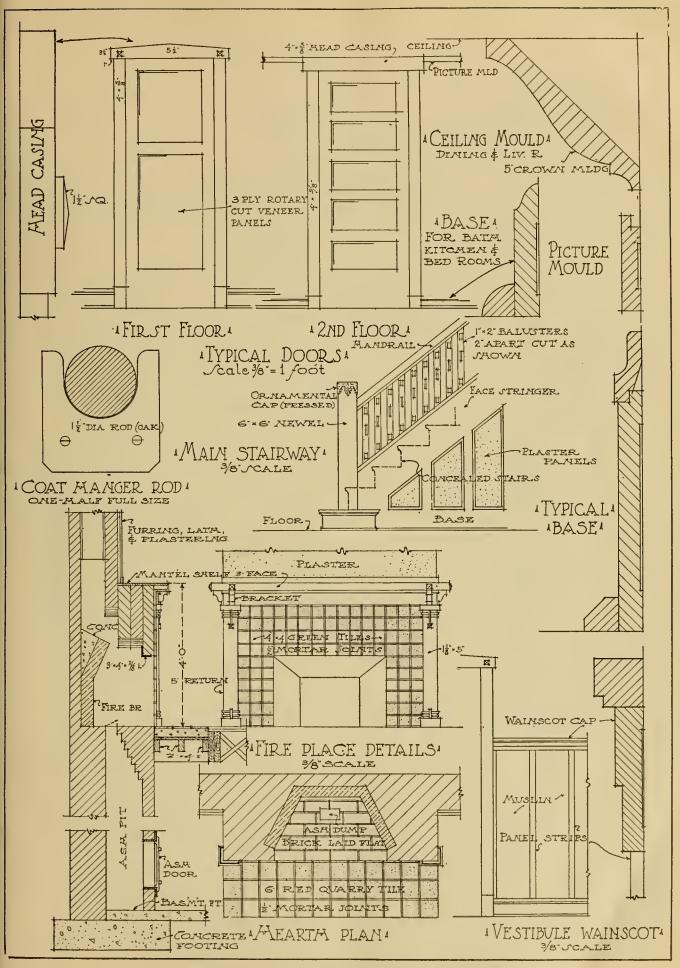


Dining Room Buffet.

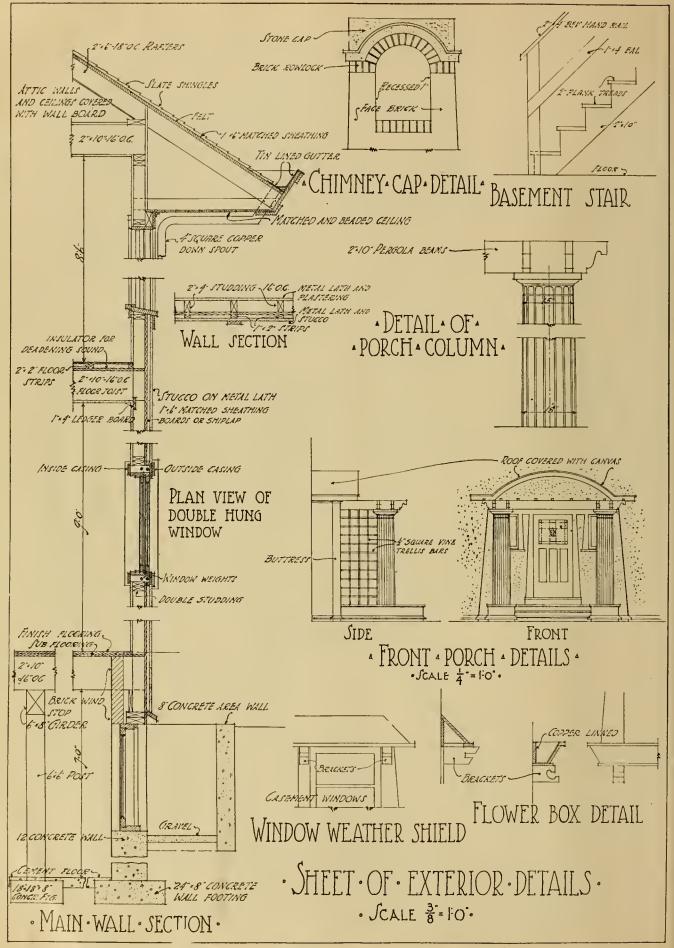


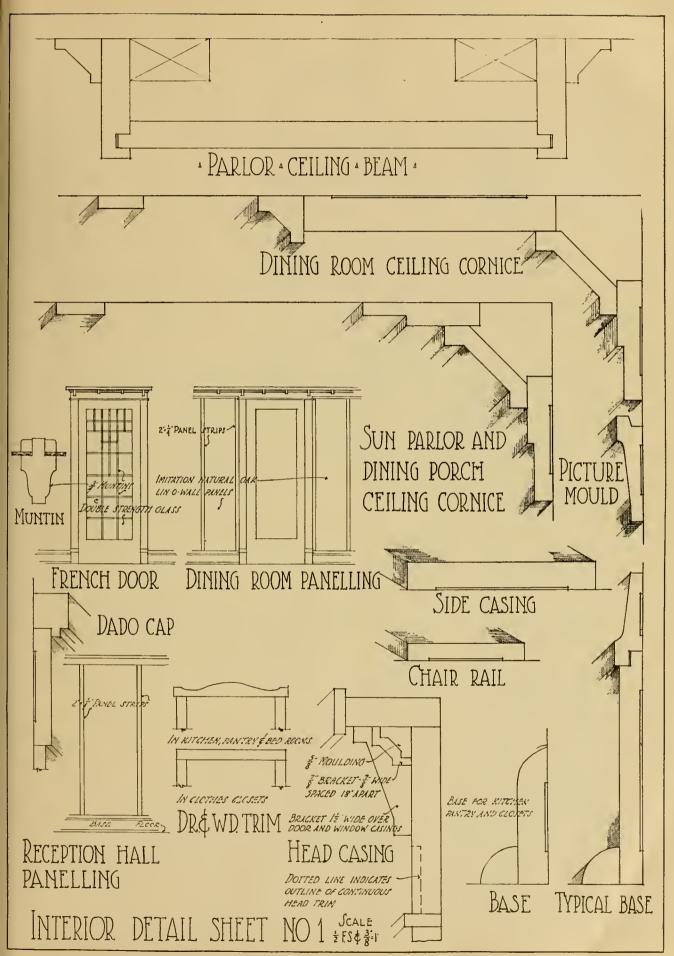
Book Cases and Book Shelves.

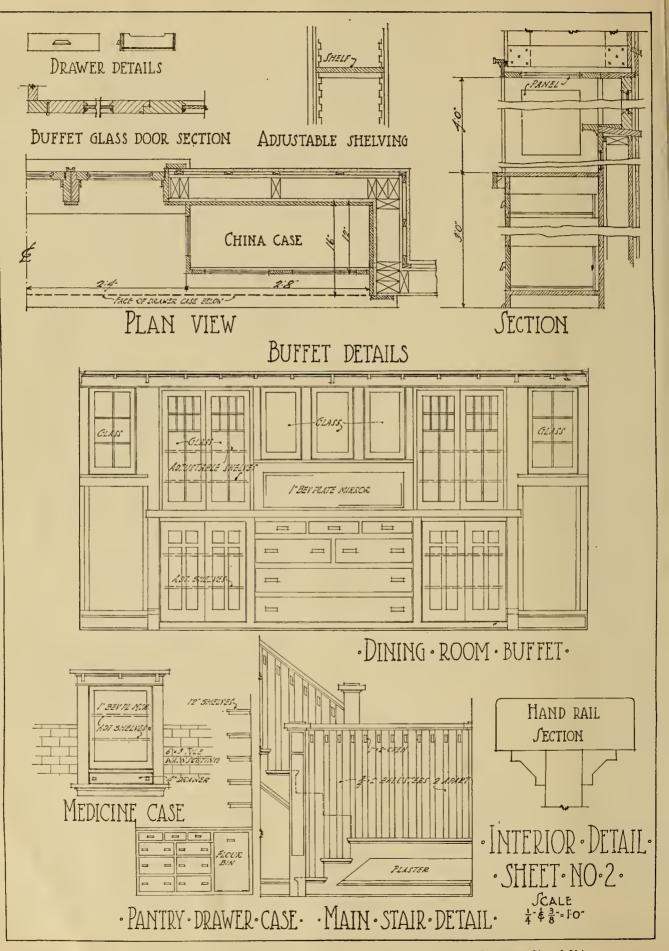


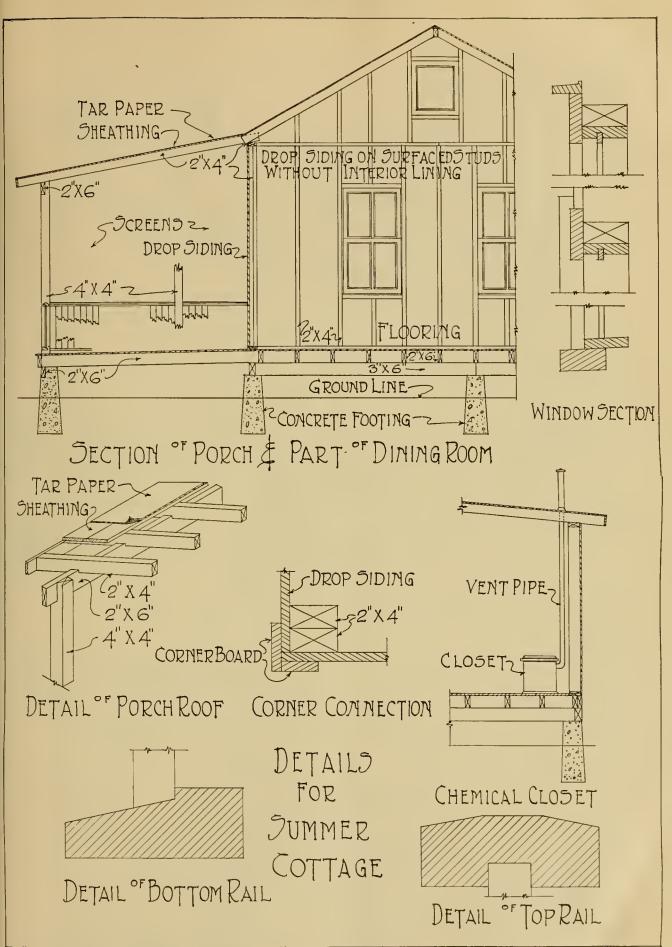


Details of Interior Finish of Brick and Stucco Finished Tile House,

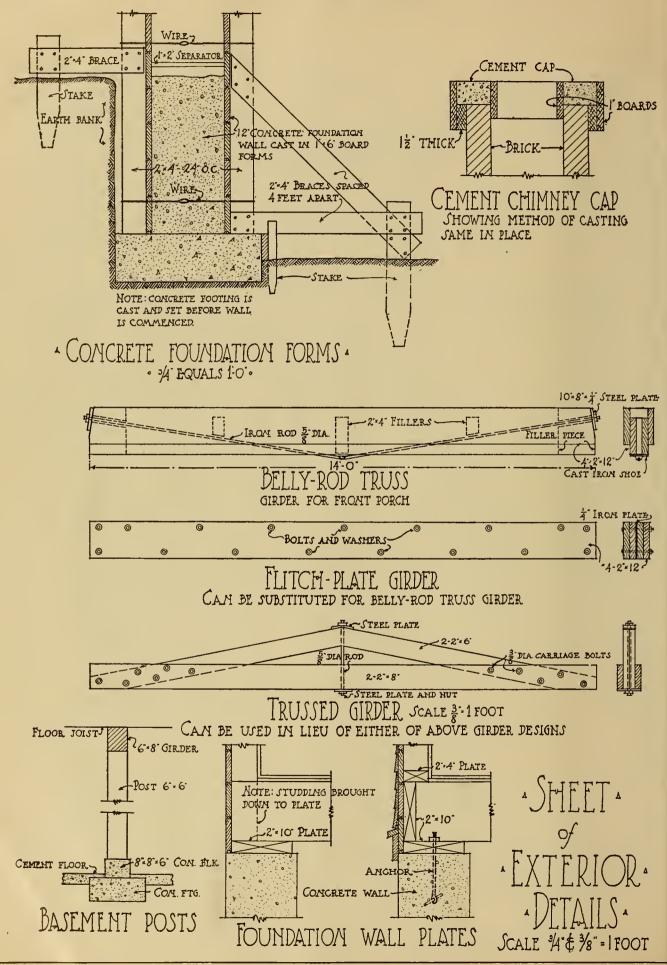




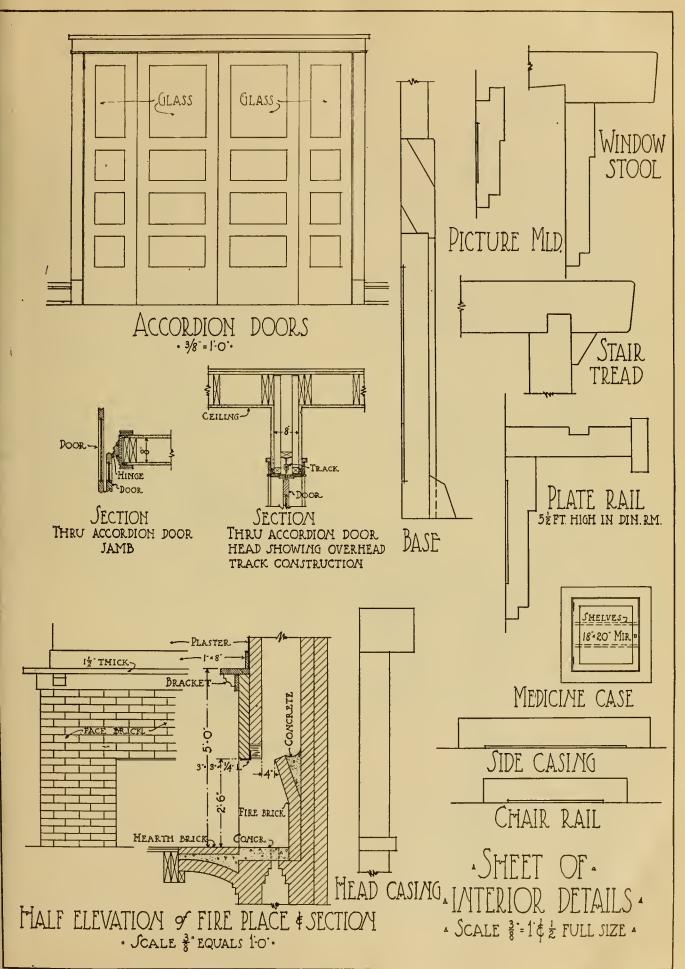


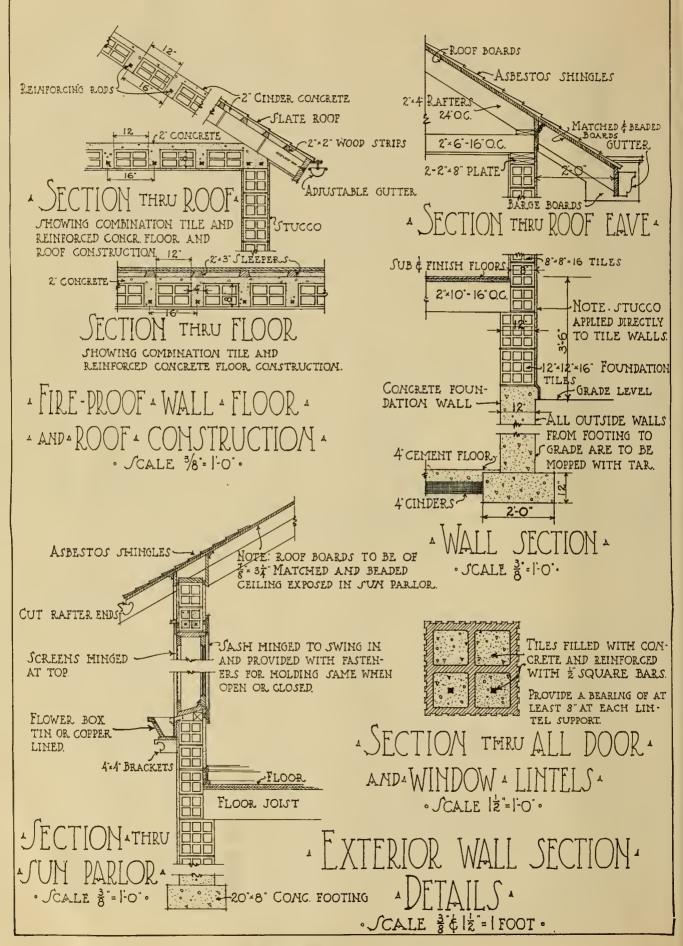


Structural Details of Frame Cottage Representative of the Type of Construction Most Commonly Used in Frame Summer Cottages.

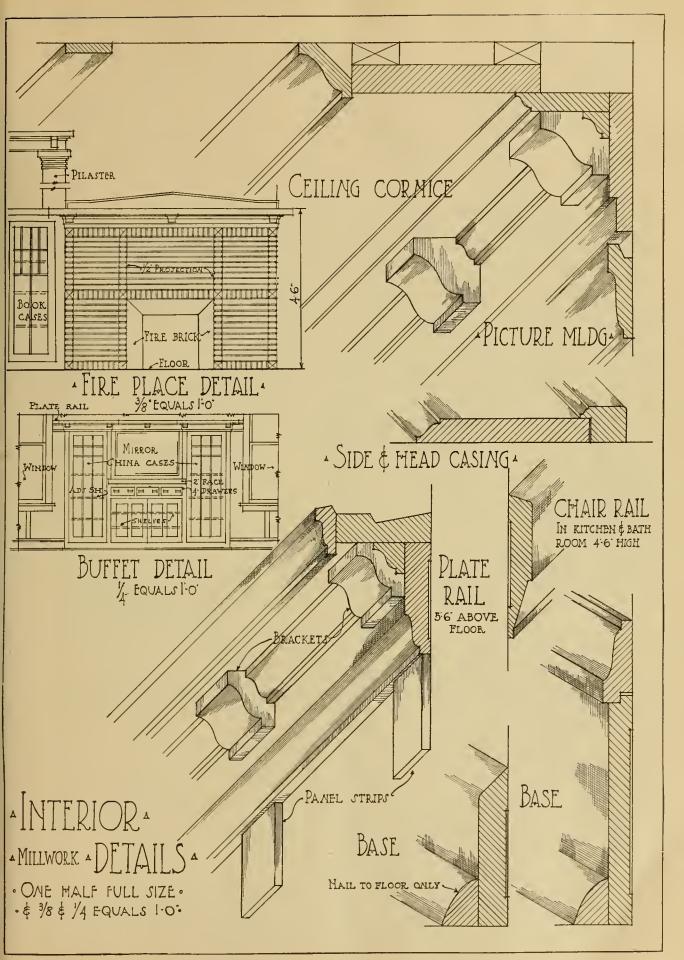


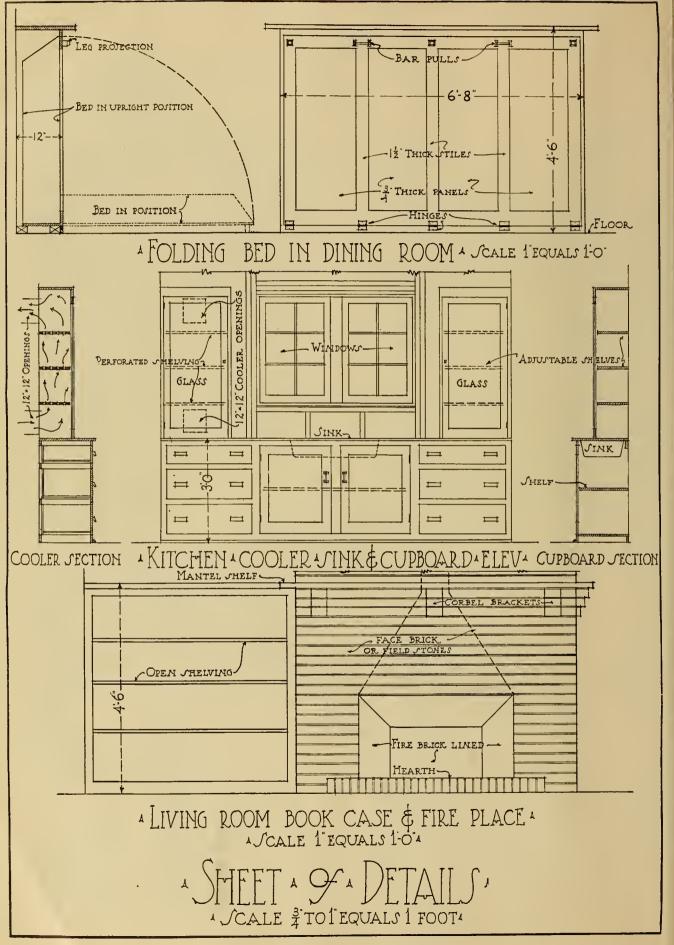
Construction Details of Prize Farm House.

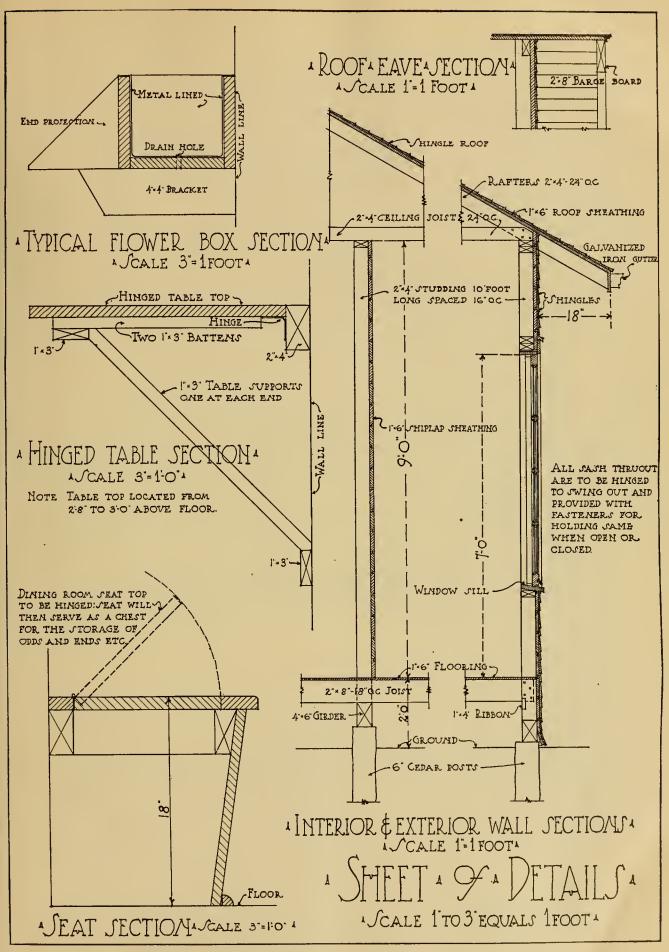




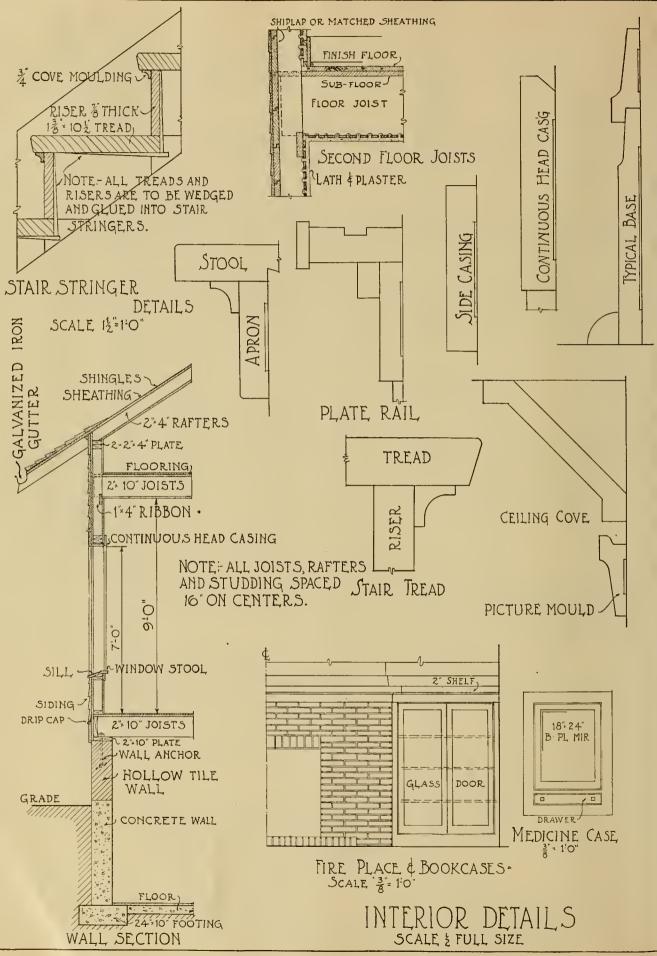
Construction Details of Hollow Tile Residence.



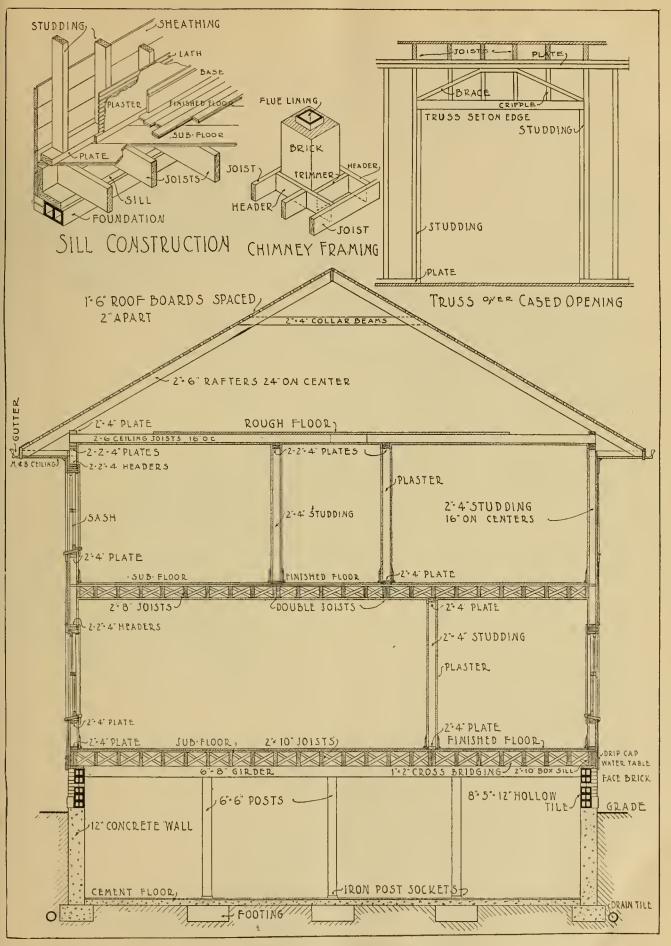




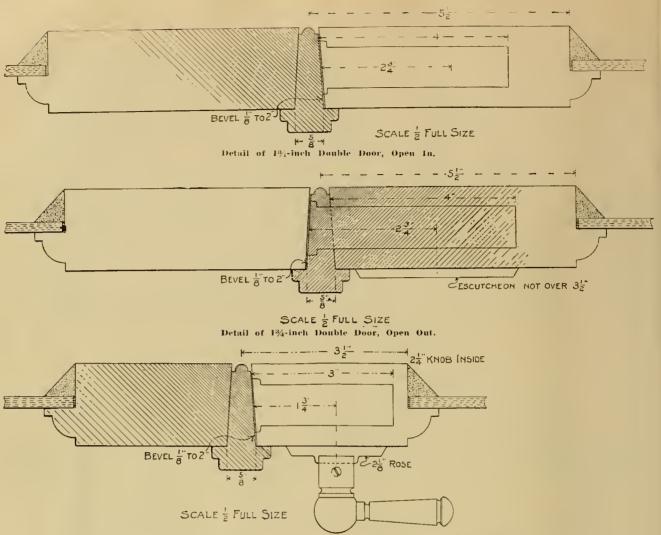
Details of Construction of Summer Bungalow.



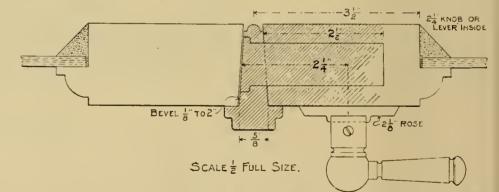
Details of Inside Trim and of Construction Used in Model Nine-Room Farm House.



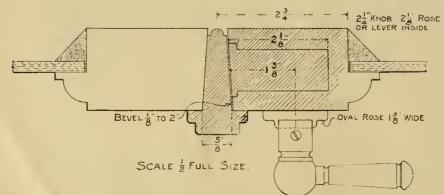
Construction Details of Modern Farm House of Frame,



Detail of 134-Inch Double Door, Open 10, on Which the Narrowest Cylinder Front Door Lock Can be Used.

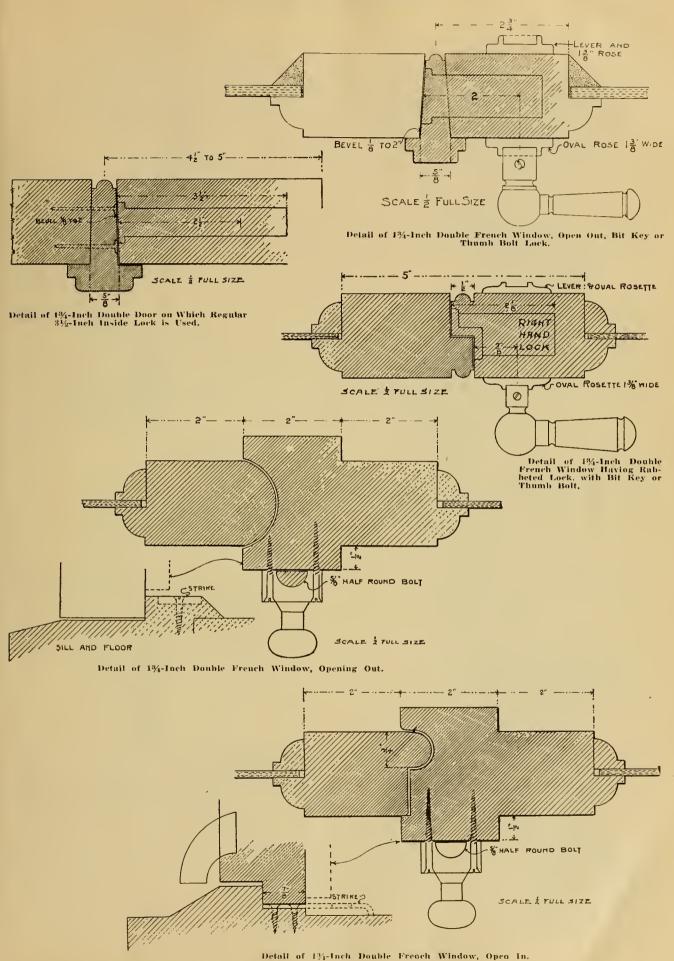


Detail of 13/-1nch Double Door, Open Out, on Which the Narrowest Cylinder Front Door Lock Can be Used.

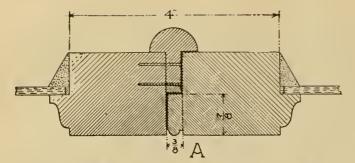


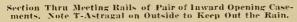
Detail of 1¾-Inch Double French Window, Open 1n, Bit Key or Thumb Bolt Lock. STANDARD DETAILS FOR BUILDERS' HARDWARE.

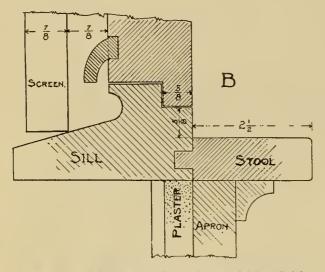
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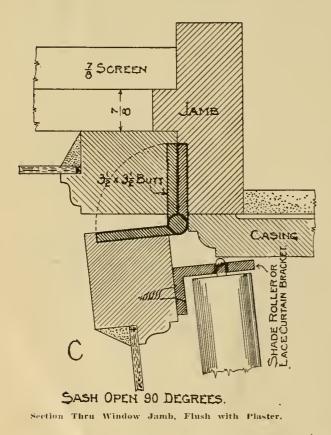
STANDARD DETAILS FOR BUILDERS' HARDWARE.

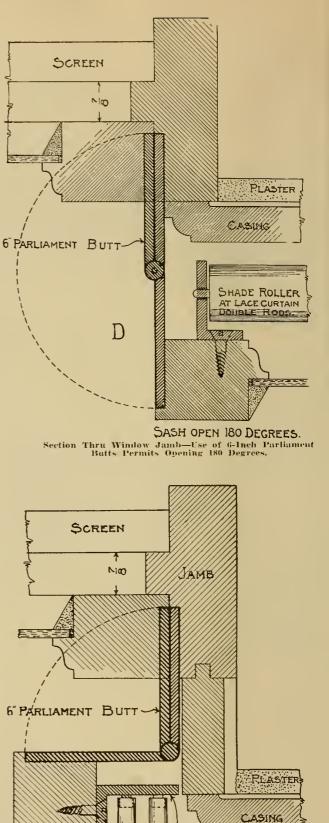






Section Thru Sill—Warranted Proof Even Against Driving Rain. Note That Standard Flush Bolt Requires Sill Rabbet to be at Least  $\Re$  luch.





DOUBLE LACE CURTAIN

ROD BRACKET.

Section Thru Recessed Jamb-Use of 6-Inch Parliament Butts Gives Room for Curtain Rod Brackets.

Details of Inward Opening Casements. All Details Half Full Size. STANDARD DETAILS FOR BUILDERS' HARDWARE.

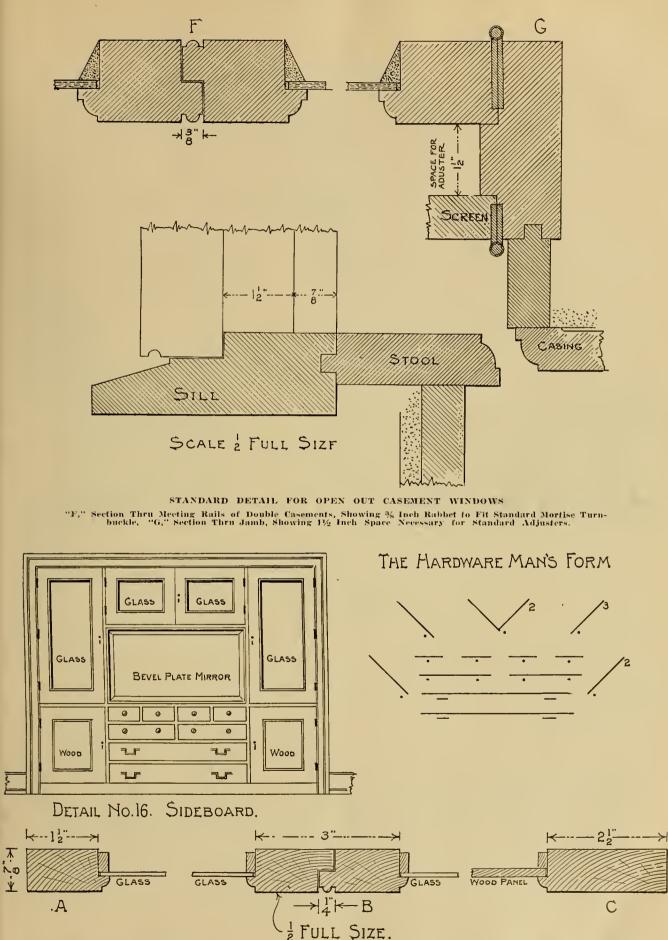
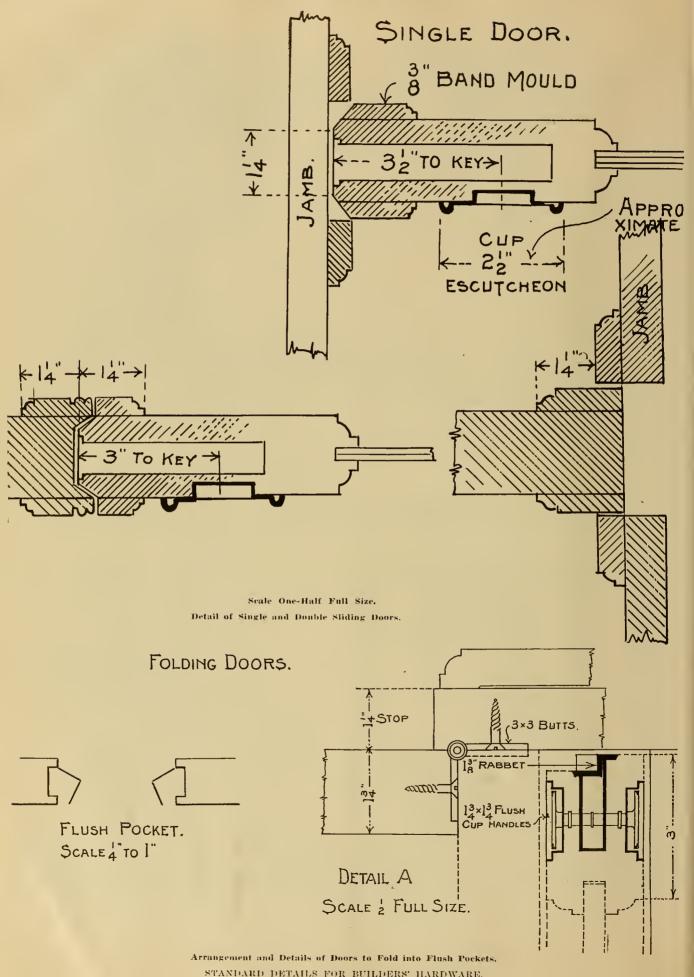
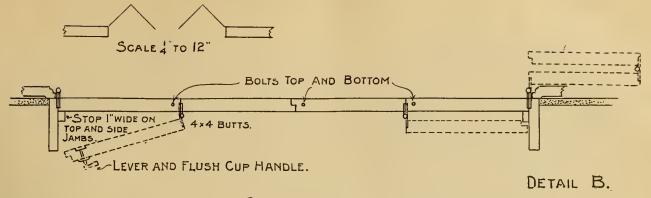


Diagram Illustrating Correct Detailing for Sideboard, and Hardware Trimmer's Short Hand Form for Listing Hardware Items. STANDARD DETAILS FOR BUILDERS' HARDWARE.





# SCALE 1" TO 12"

Arrangement for Accordion or Four Fold Doors Showing Only Proper Way.

#### **Accordion Folding Doors**

THERE is nothing in the building line which puzzles the millmen, the carpenter, and the hardware man so much as accordion folding partitions.

The manufacturers of accordion hangers should treat more fully on this subject. They should place in the hands of the architects full descriptive matter, also half size or full size drawings with hardware in place. Then the architects can show the carpenter how it is done and also show the hardware man what items he has to furnish to make a perfect workmanlike job.

Doors should never be made thinner than  $1\frac{3}{4}$  inches, hecause a lock knob and flush cup handle cannot be applied in doors thinner than  $1\frac{3}{4}$  inches.

The detail below shows six full width doors and two half width doors.

Here you have a sliding door proposition because the hanging of the doors forces you to it. You must supply a hanger for the door farthest from the half door, and a hanger for every second door from this.

You can readily see that the track is full width of the

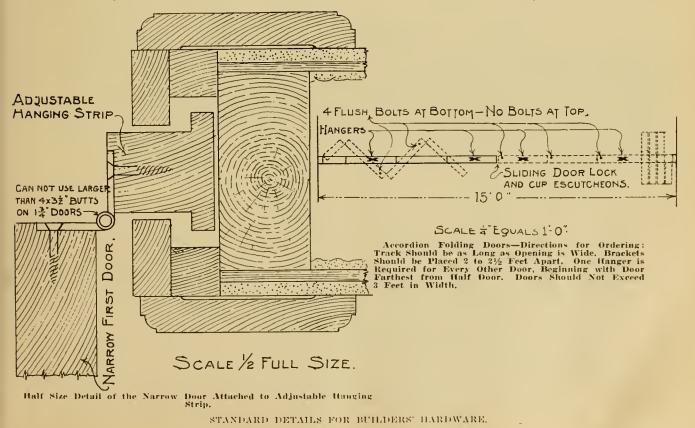
opening. You must use a sliding door lock with the regular flush cup escutcheons. You should use four flush extension bolts at the bottom. You cannot use flush bolts at the top because you cannot apply the strikes or keepers to the top jamb; *there is a slot in the top jamb*.

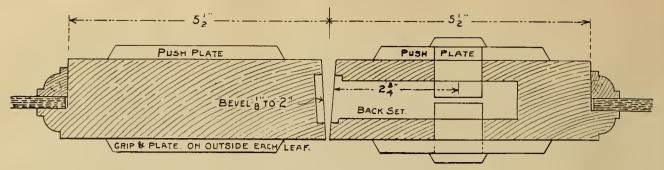
You can omit the use of the bottom bolts, but it is not good practice, because the doors will buckle and you have no other method of keeping the doors rigid at the bottom when same are closed.

If you wish to use eight full width doors and two half width doors you must use the same number of hangers as shown in the detail, but these two extra inner doors must be treated to operate same as regular pair of hinged doors with a soffit closing up the slot in the top jamb and bolts, lock, knob and flush cup handle.

Now, to obtain a good workmanlike job of folding partition doors, the writer suggests the use of the adjustable hanging strip as shown in detail to left.

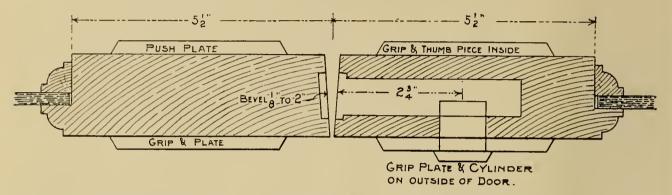
If the doors shrink the flush bolts can be shot into their keepers. All makers of hardware furnish keepers or strikes with oblong holes in them (because they know doors will shrink), hence the strikes or keepers need not be moved.



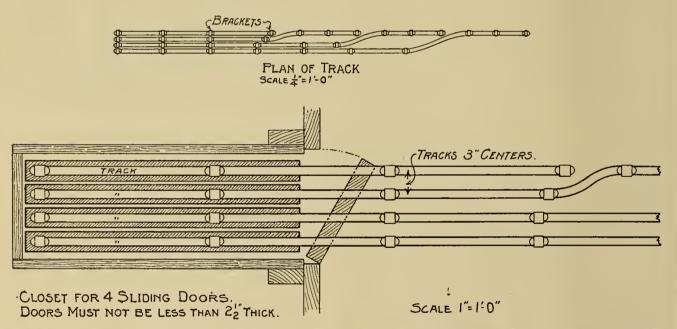


DOUBLE DOORS OPEN OUT.

Detail of Double Doors to Open Out. Note That Edges Are Beveled, Not Rounded.



Detail of Double Doors to Open Out-for Schools, Churches, Theaters and Loft Buildings.



Plan View of Tracks for Four-Door School Ilouse Partition Heavy Enough to Carry Blackboard Panels; with Detail View of Pocket for Doors to Slide Back Into.

#### **School-Room Partition Doors**

#### ARRANGEMENT OF PARTITION DOORS HEAVY ENOUGH TO CARRY BLACKBOARD PANEL

WE show herewith, in the bottom detail, four sliding doors, all of which slide back into one pocket.

You will notice that this scheme is to take the place of accordion folding doors, dividing a large room into two or more smaller rooms.

This is especially desirable if these partition doors are required for additional blackboard space.

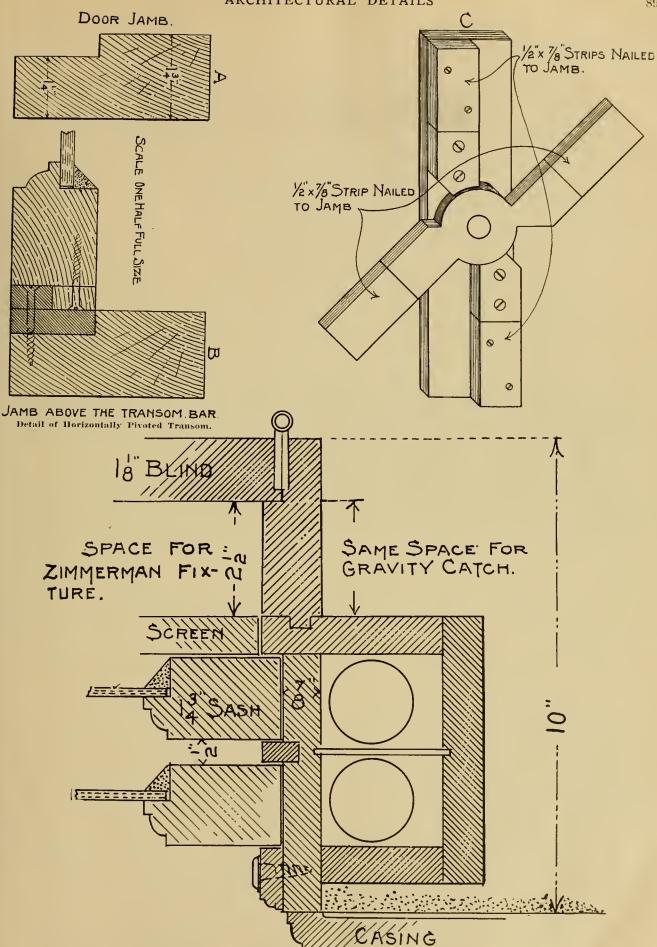
This device is in common use in the Chicago public

schools, and is being installed in many of the schools in the larger cities. The accordion folding doors are much lower in price: but price does not count when a perfect up-to-date device is wanted.

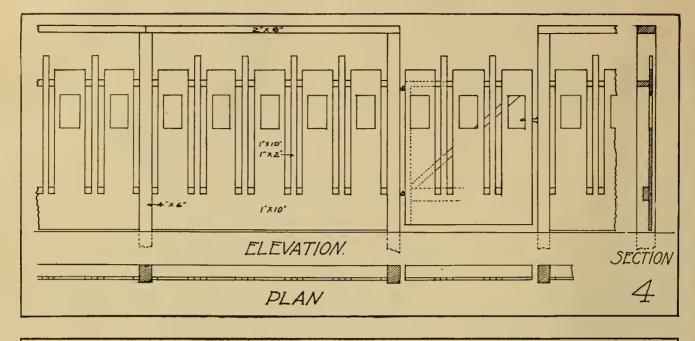
Any number of doors can be used. If you have the space for a pocket in the opposite wall you can slide some of the doors into same,

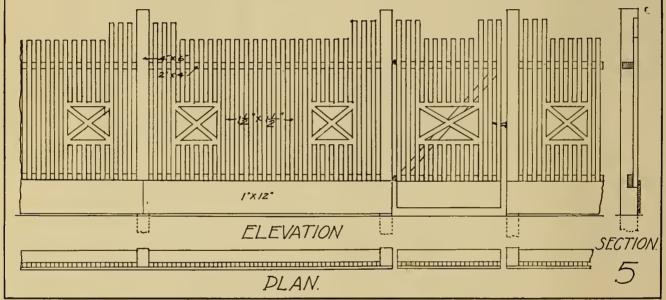
If it is desired to hide these doors, a panel can be placed in front of the doors when same are back into the pocket.

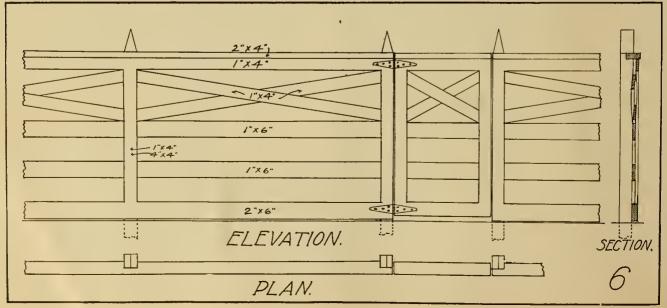
This panel can be hung on invisible hinges and a very satisfactory job is obtained.



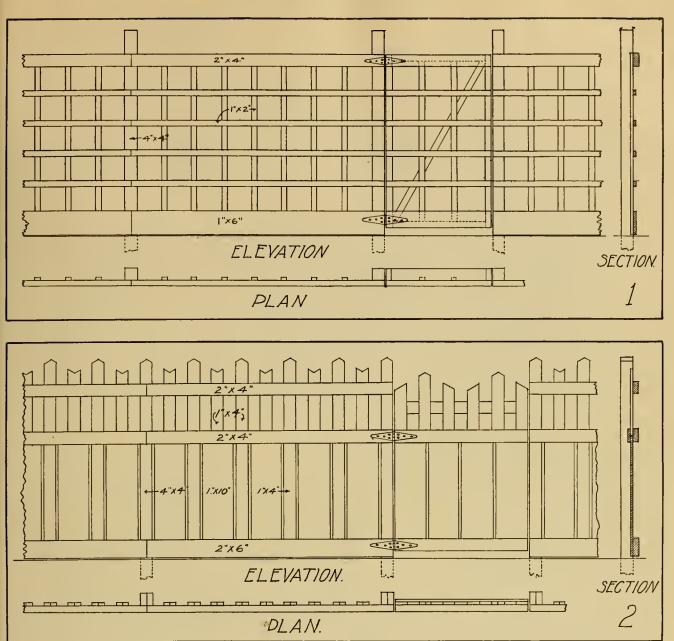
Detail of Outside Blinds for 10-Inch Wall. Note That There Must be a Space of at Least 2½ Inches Between Screen and Blind for Zimmerman or Gravity Fixtures; Scale One-Half Full Size. STANDARD DETAILS FOR BUILDERS' HARDWARE.

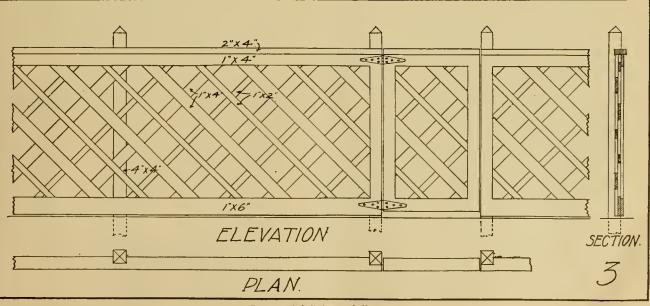






Ornamental Gates and Fences.





Ornamental Gates and Fences.



#### Sun Parlor and Sleeping Porch Modernize Old Homes

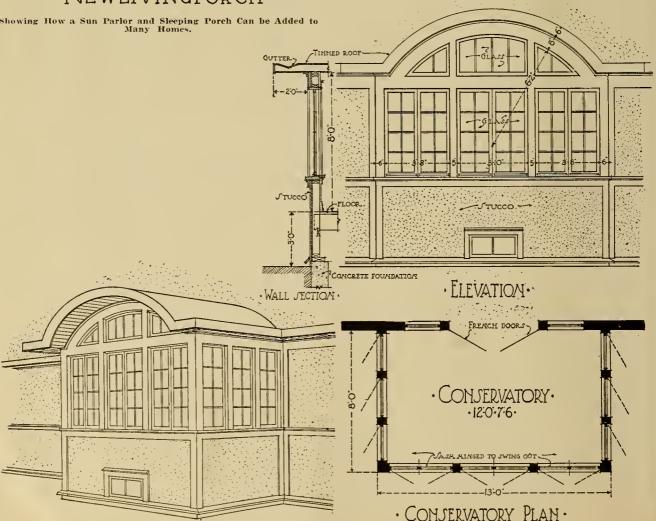
THERE are few houses that were built before sun parlors and sleeping porches came into demand that cannot be remodeled so as to have these modern features. The cost of the additional rooms is more than gained by the satisfaction they give the owner and the increase in the value of the house, should it be sold.

In designing a sun parlor, or a sun parlor and sleeping porch, first consider the type of architecture of the house and place the addition where it will most improve the dwelling. The addition here shown was placed at the side of the house, at the front. This is constructed of face brick, set on a concrete foundation, with a stucco strip below the sleeping porch windows. Details of the construction are given in the section.

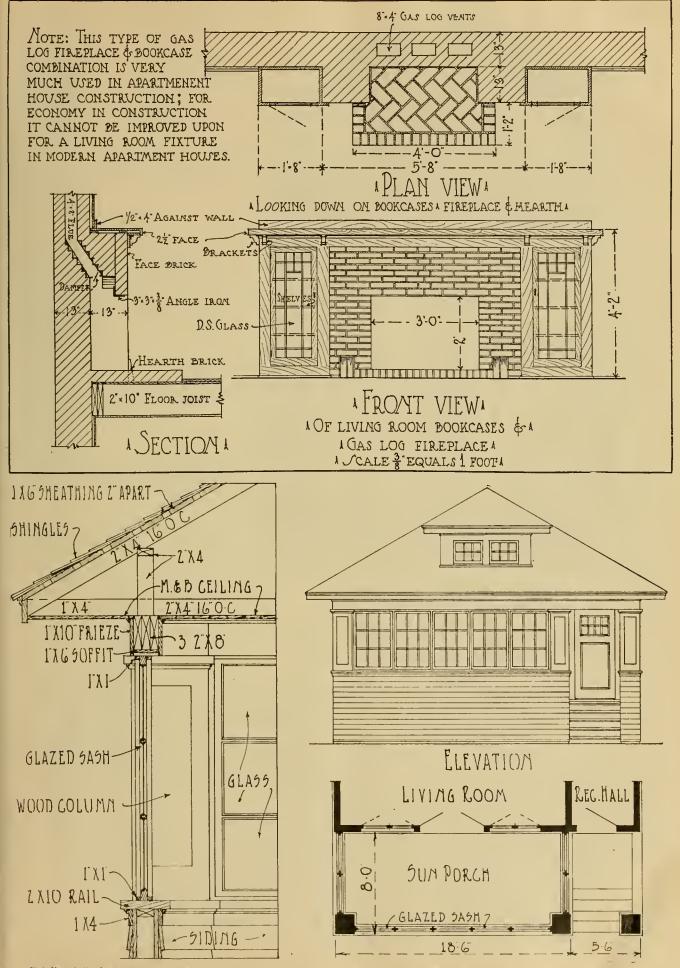
The floor plan of the sun parlor, or living porch, calls for a tile floor, but any material suitable or wanted by the owner can be substituted. The glazed doors leading from the living room to the porch also can be changed into any other desirable type, or left out altogether.

In this design the roof line was extended out over the porch to conform to that of the rest of the building. That is a feature that should not be overlooked—to so design and build the addition that it will not appear as an addition, but apparently will be a part of the original construction.

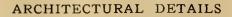
As has been said, this design is susceptible to many alterations. For instance, the living porch here shown can be transformed into an outdoor dining porch, adjoining the dining room, with a sleeping porch above. When such an addition is made, the construction will be more simple, as dining porches usually were merely screened in, being placed in a position where there is more privacy.

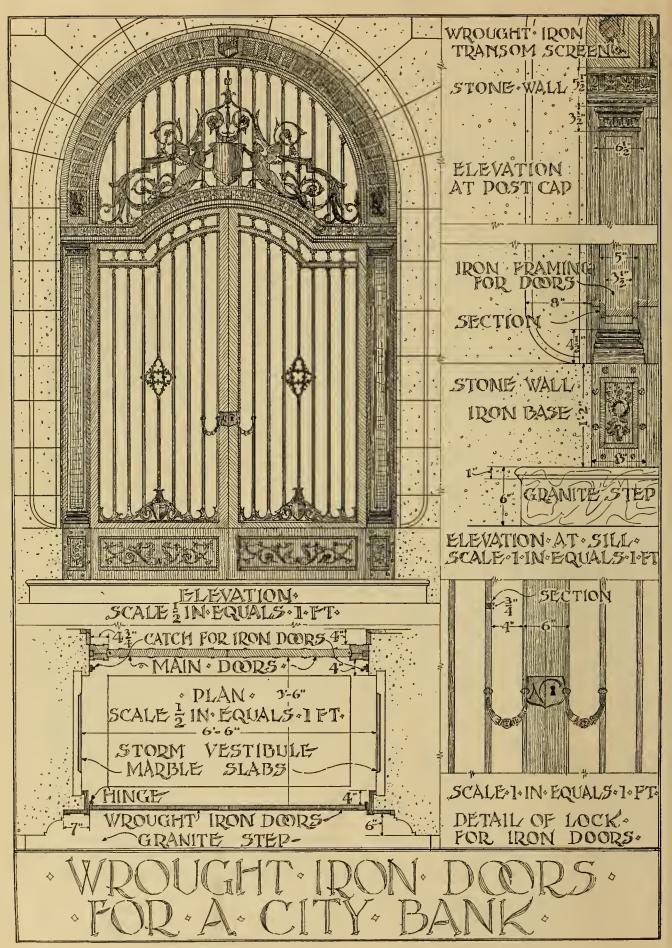


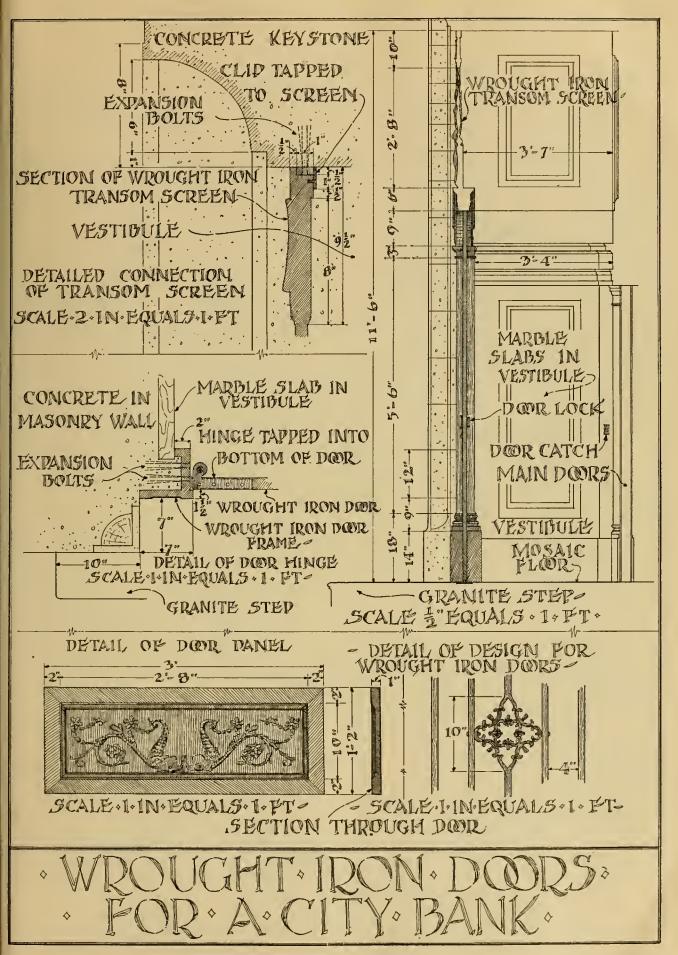
Perspective Sketch, Floor Plan and Details of an Artistic Sun Parlor or Conservatory Addition to be Built onto a Stucco House.

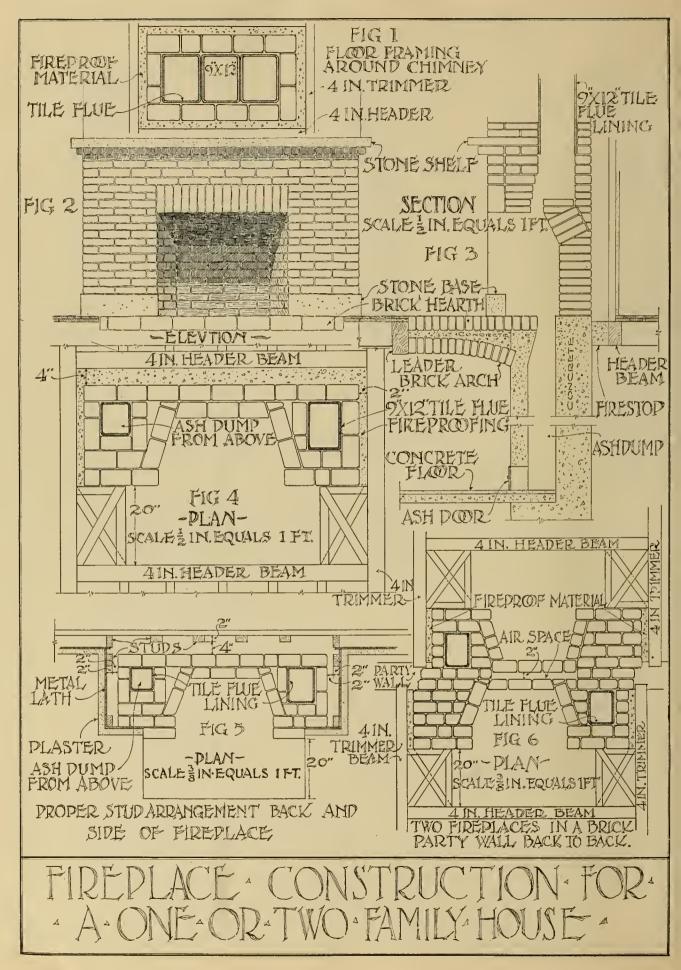


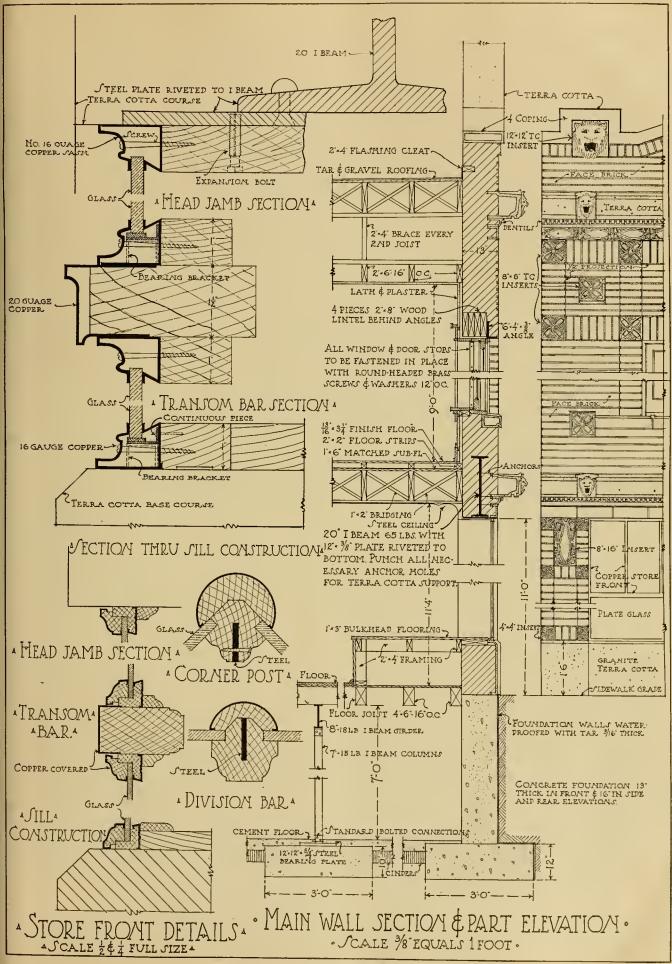
Details of Enclosed Porch and Separate Entry with French Doors and Cement Windows Between Porch and Living Room.



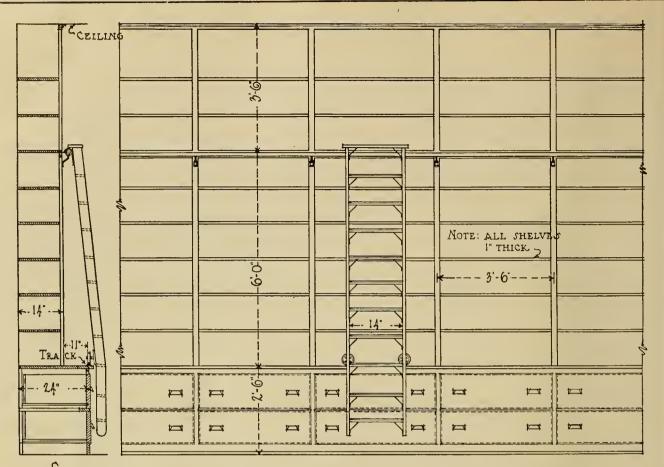








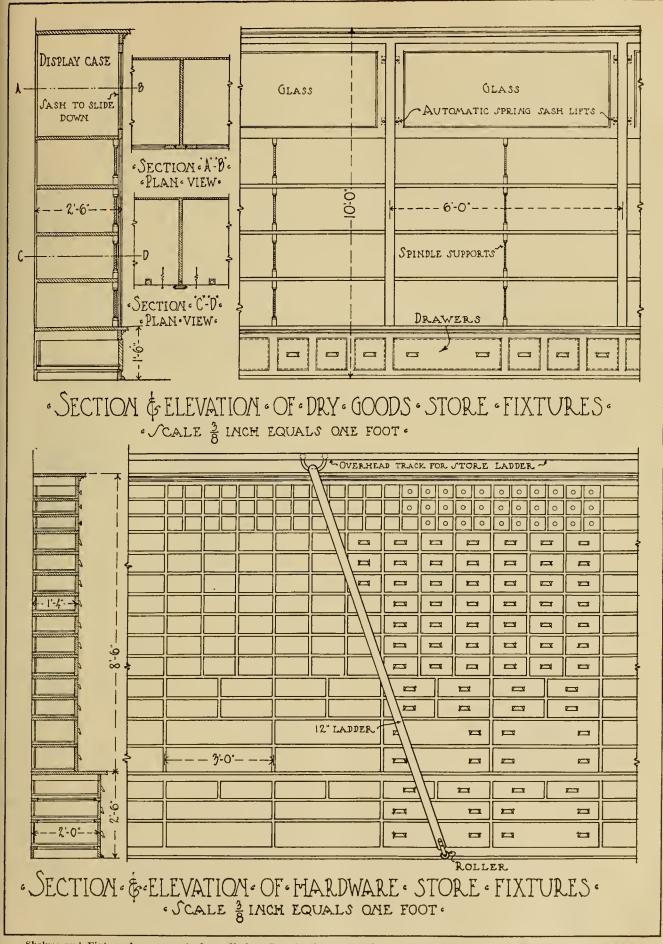
Show Window and Front Wall Construction of Store Building.



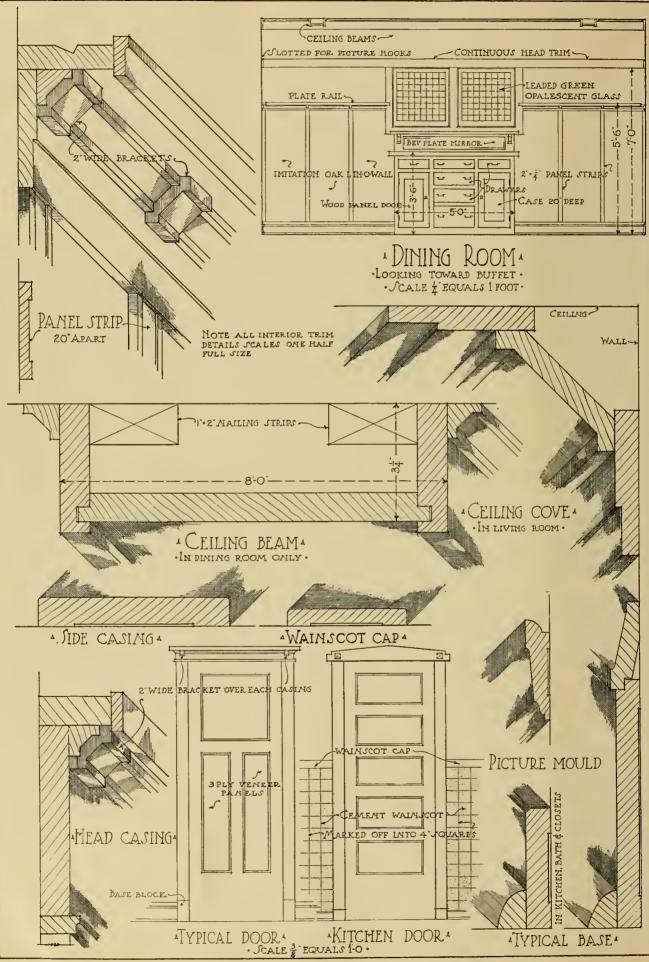
# ·SECTION · AND · ELEVATION · OF · SHOE · STORE · SMELVING · · Scale · ¿ · Inch · Equals · ONE · FOOT ·

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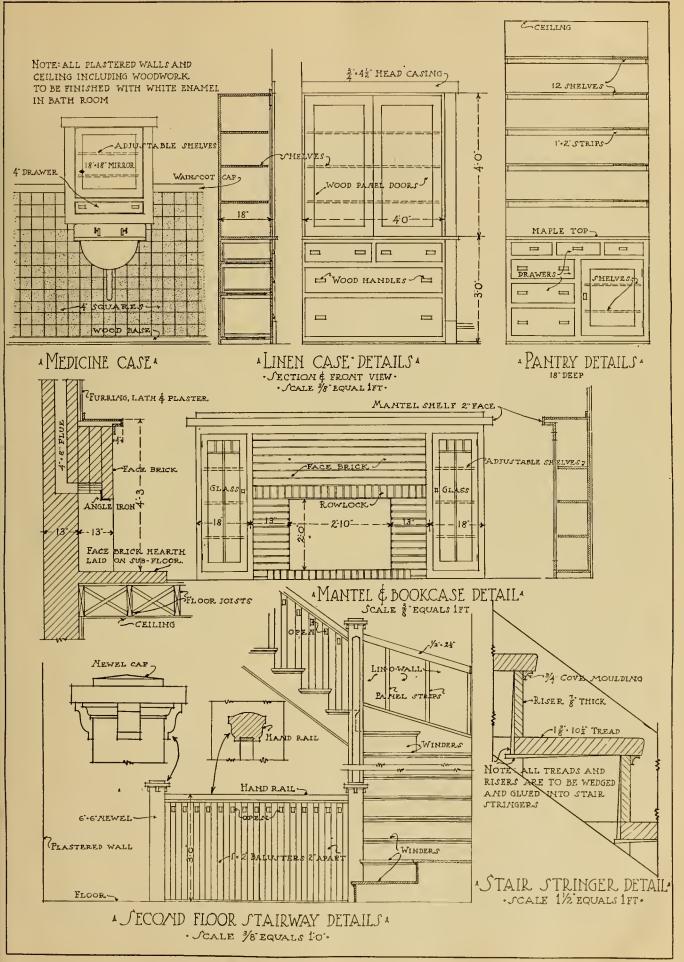
Details of Shelves and Fixtures Suitable for Shoe Stores and Drug Stores. The Ladder Construction for Handling the Shoe Store Shelving Is a Feature. The Drug Store Design Is a Standard Design Such as Might Be Found in a Well Arranged Drug Store.



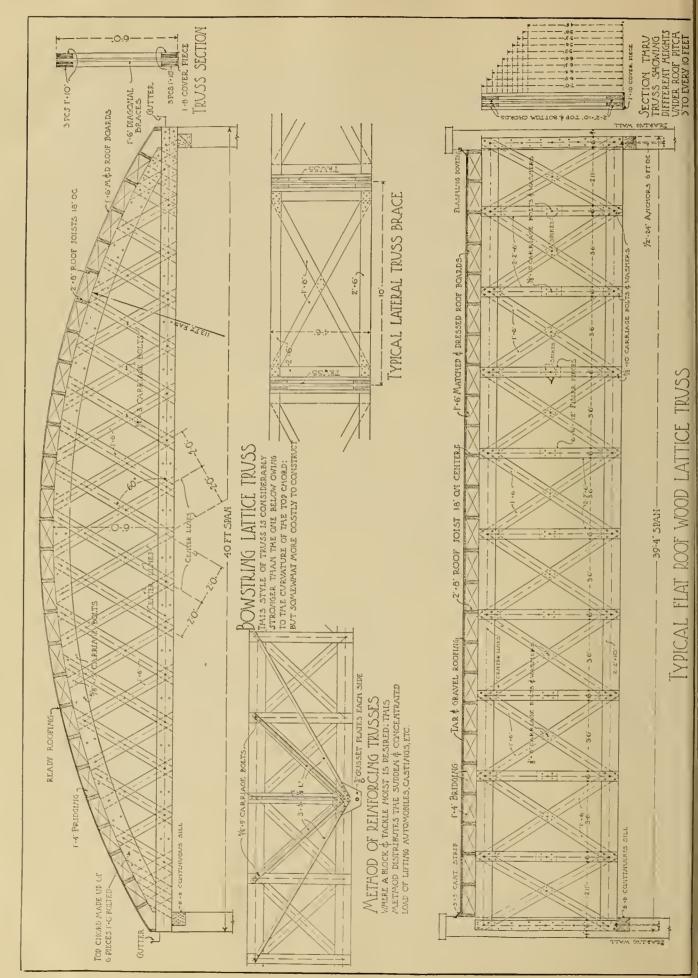
Shelves and Fixture Arrangements for a Modern Dry Goods Store and a Hardware Store. The Small Labeled Drawers Are the Most Useful for a Hardware Store. The Broad Shelves for the Dry Goods Do Not Need to Be Marked as the Material Can Be Easily Seen.

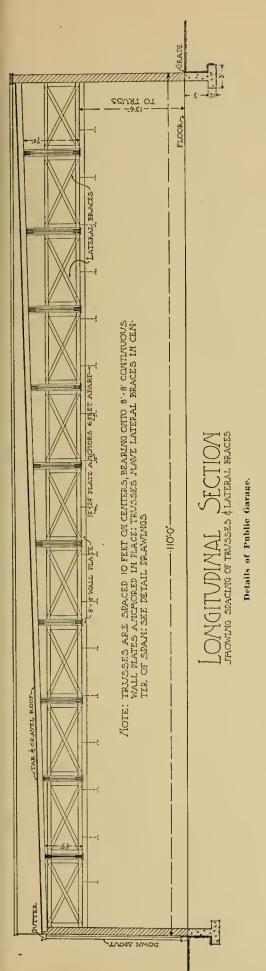


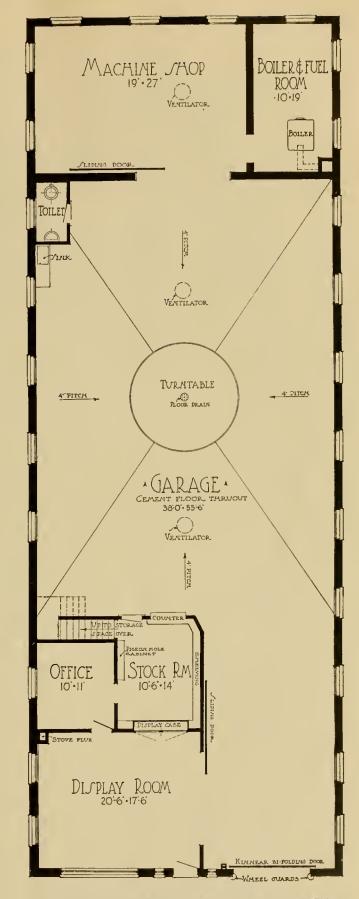
Details of Interior Finish in Second and Third Floor Apartments.



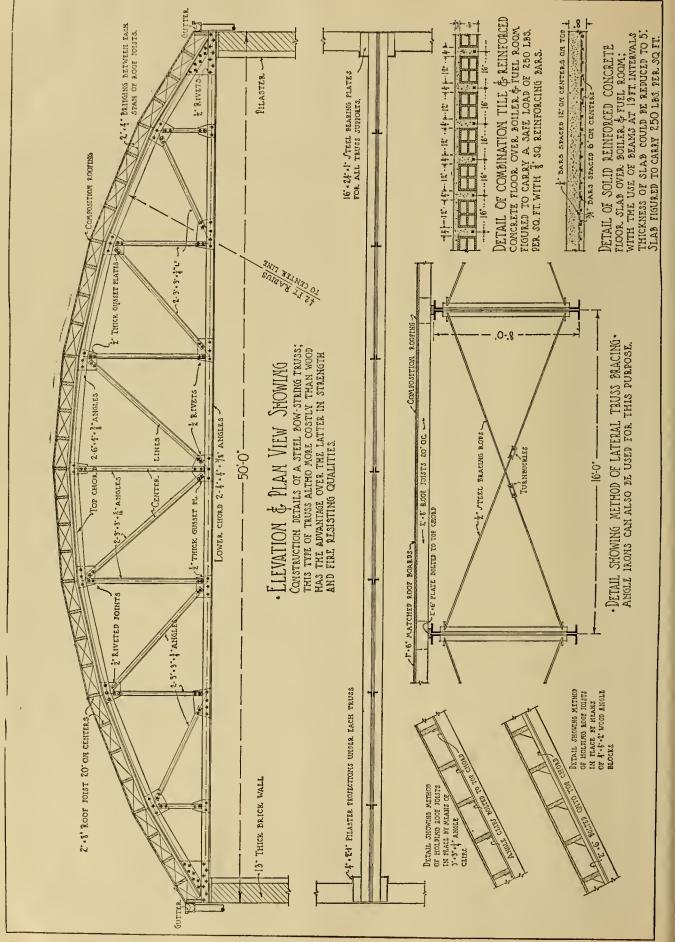
Details of Special Interior Trim in Hall and in Living Quarters.



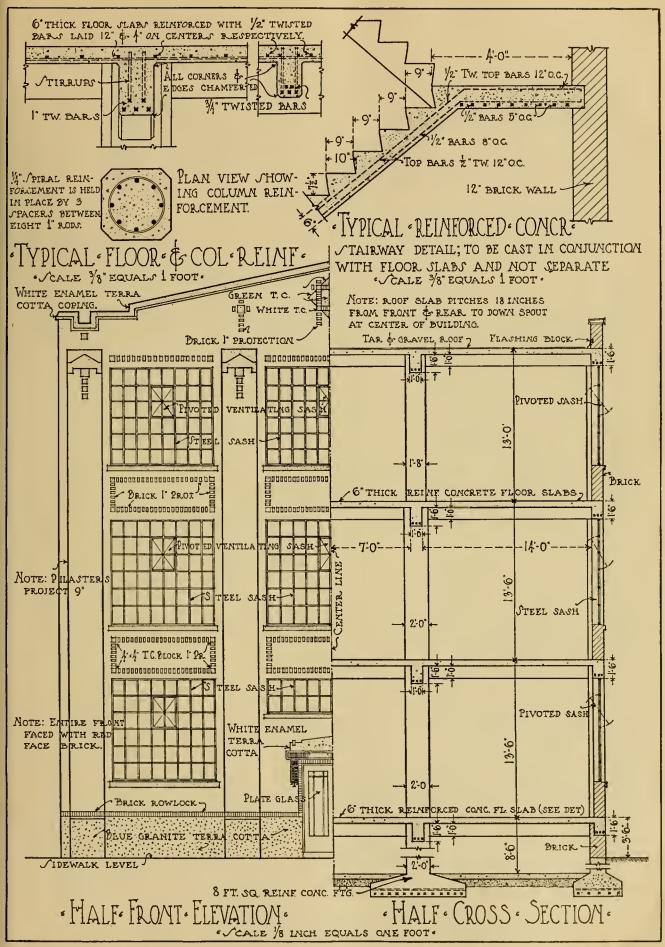




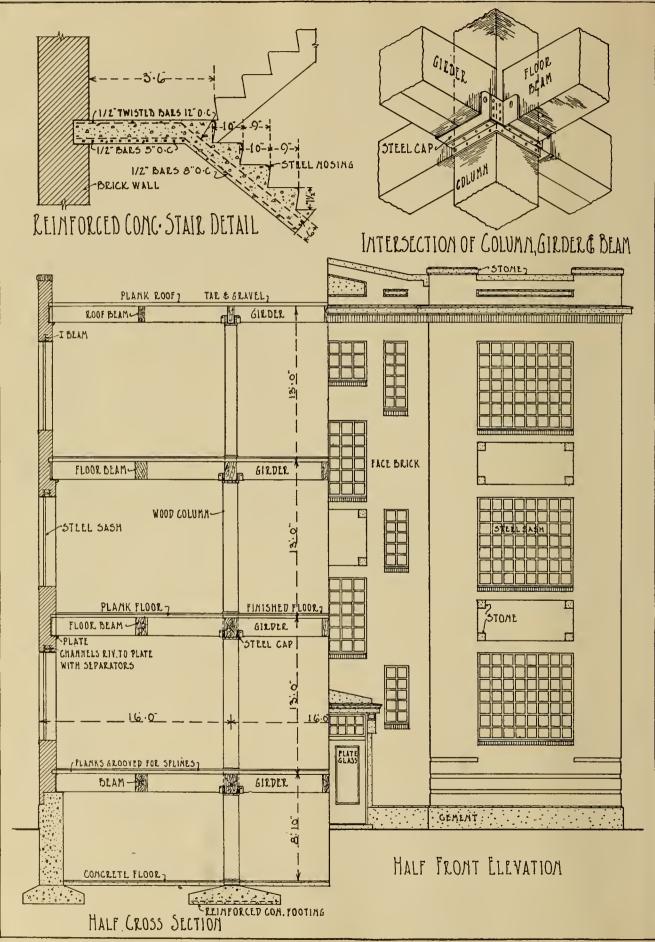
Floor Plan of Garage Showing the Arrangement of the Varions Parts. The Front of the Building Contains a Display Room for Accessories and Show Cars. Back of This is the Stock Room and Office Which Can Be Easily Made Very Attractive from the Front. The Turntable in the Center Simplifies the Handling of Cars. There is a Commodious Shop at the Rear.



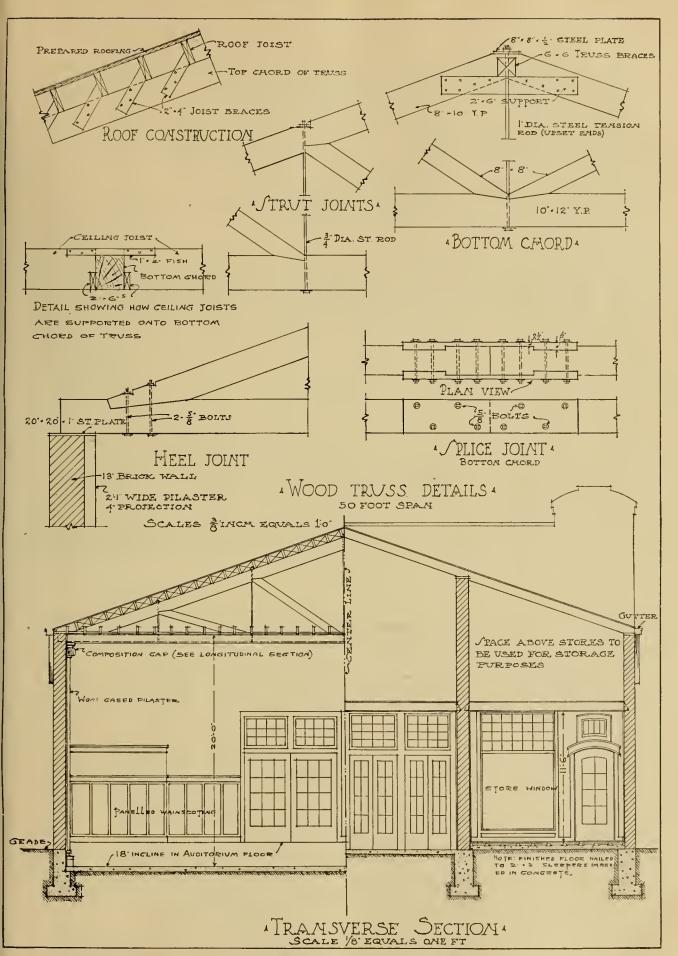
Details of Light Steel Truss for 50-Foot Spaa Curving Roof Garage, Also of Concrete Floor Over Heating Room in Public Garage,

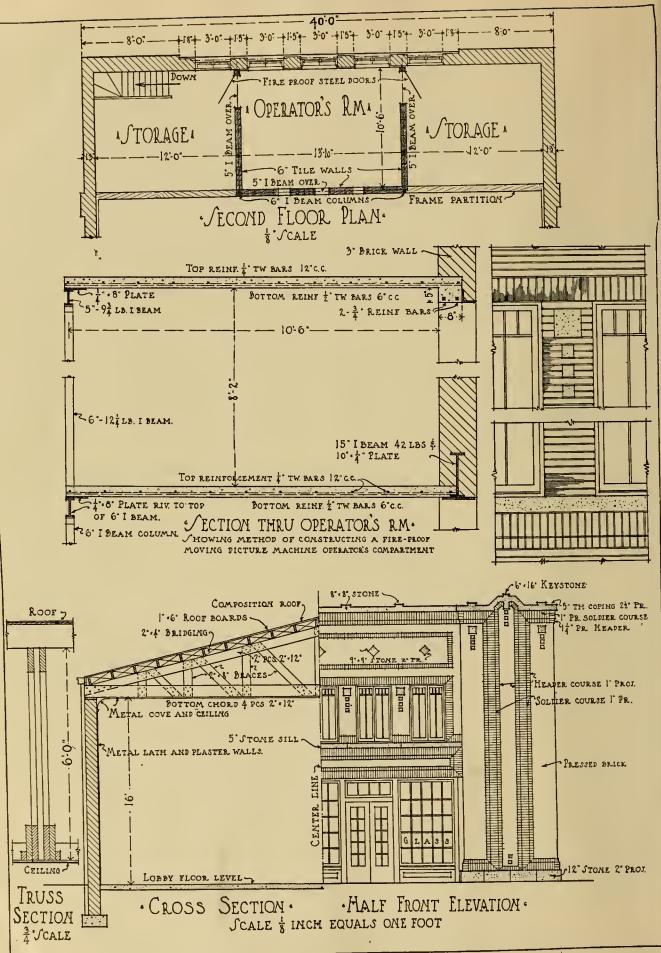


Details of Reinforced Concrete Factory Building. Reinforcing of Floors, Girders, and Columns Are Shown and Also Arrangement of Exterior Fluish,

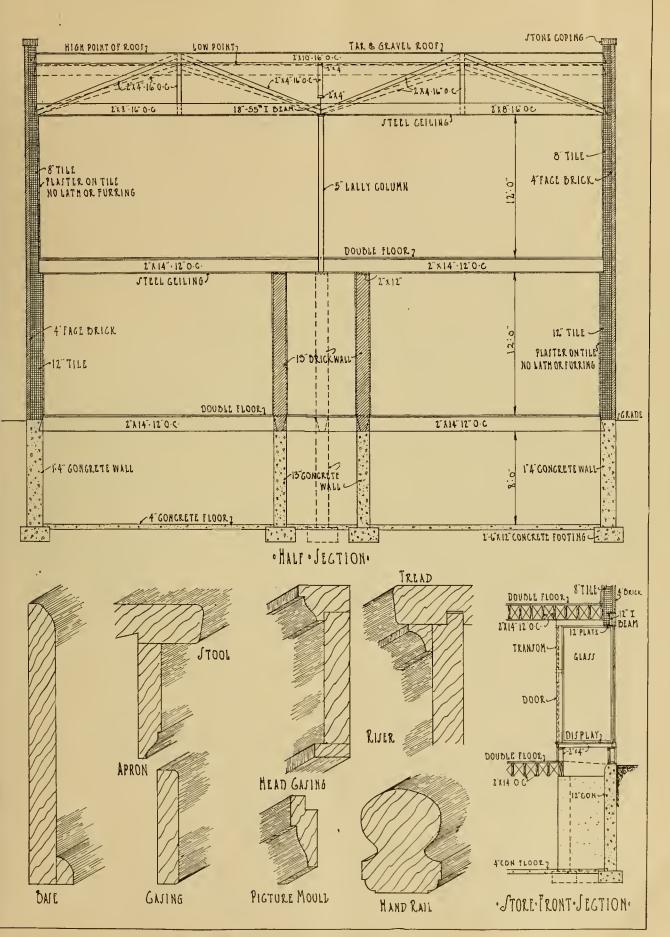


Working Details Standard Mill Construction Factory Building.

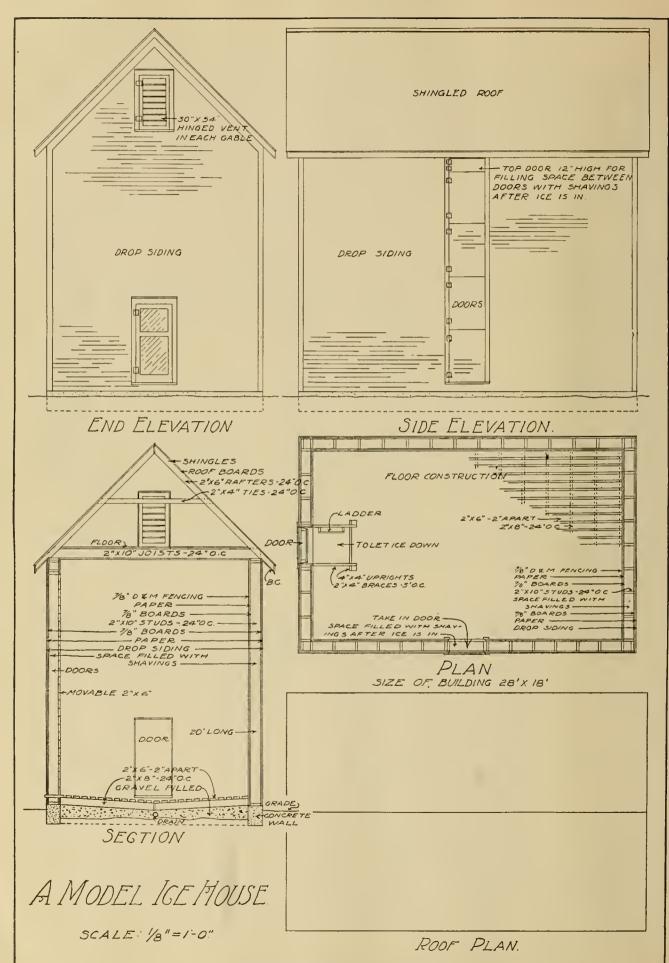


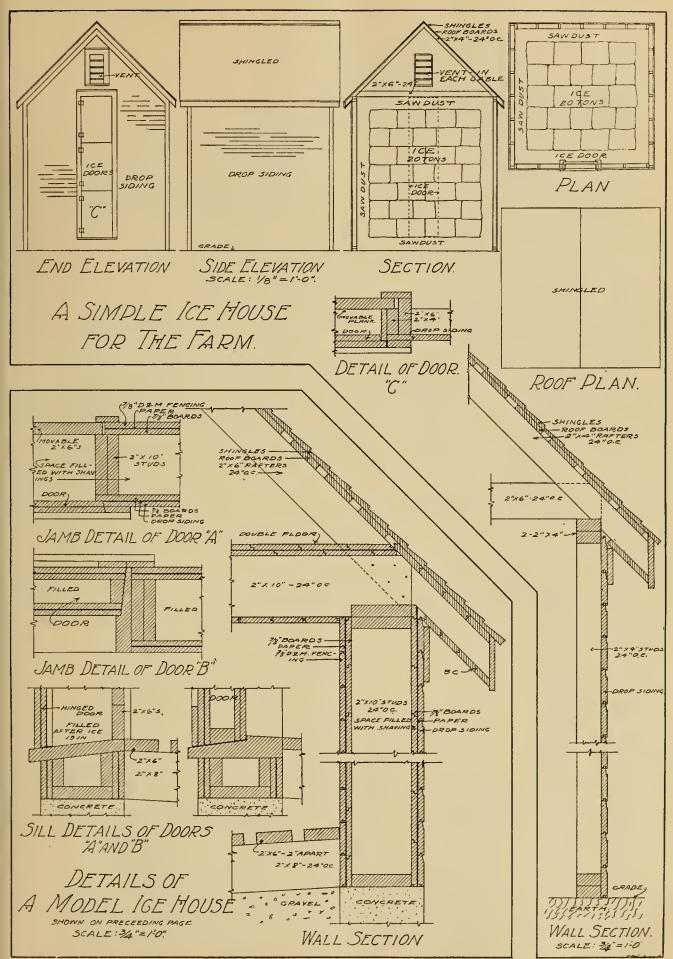


Details of Construction of One-Story Theater. An Up-to-Date Business Attracting Froot is Provided and the Operator's Room is of Fireproof Construction.

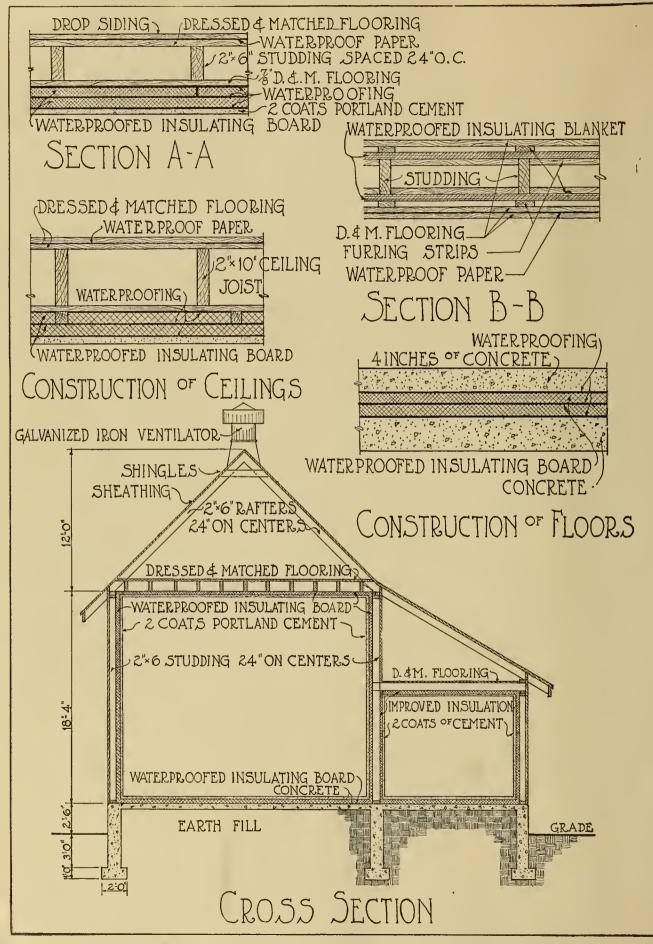


Details of Construction and Finish of Stores with Lodge Hall Above.

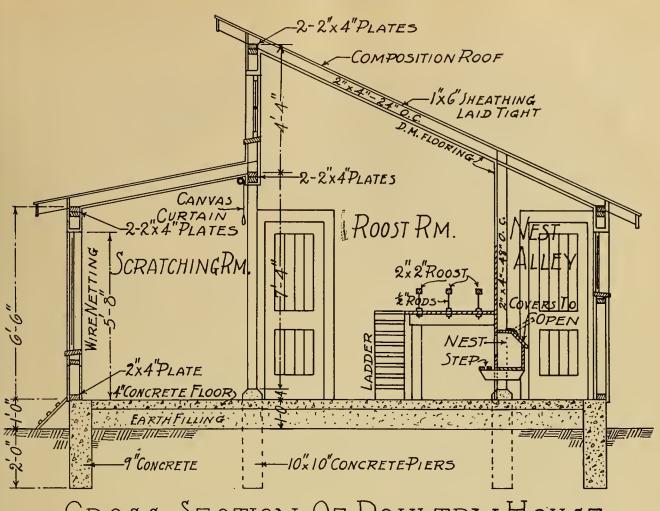




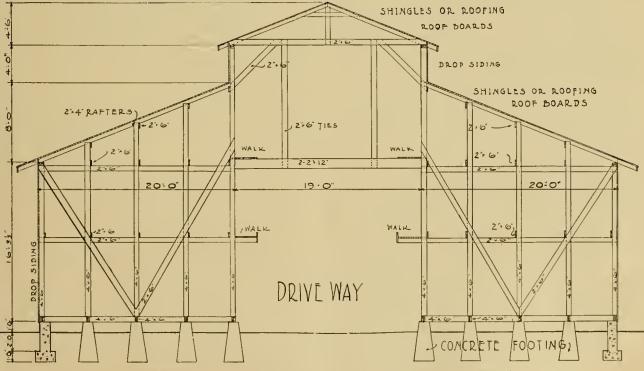
Design and Details of Simple Farm Ice House,



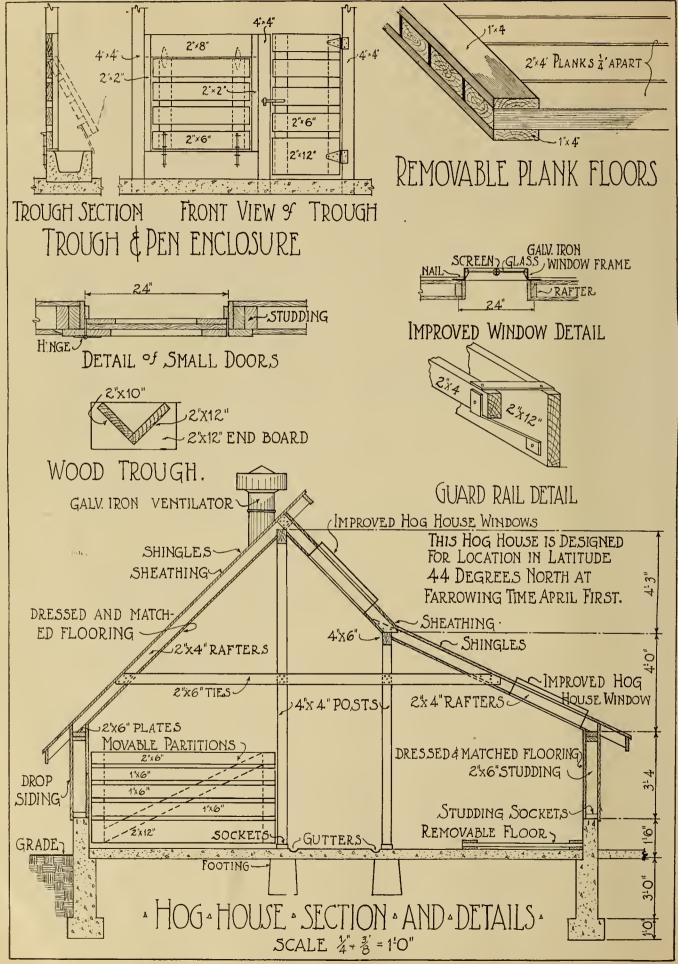
Details of Construction of Community Cold Storage Plant and Ice House, Showing Special Insulation,



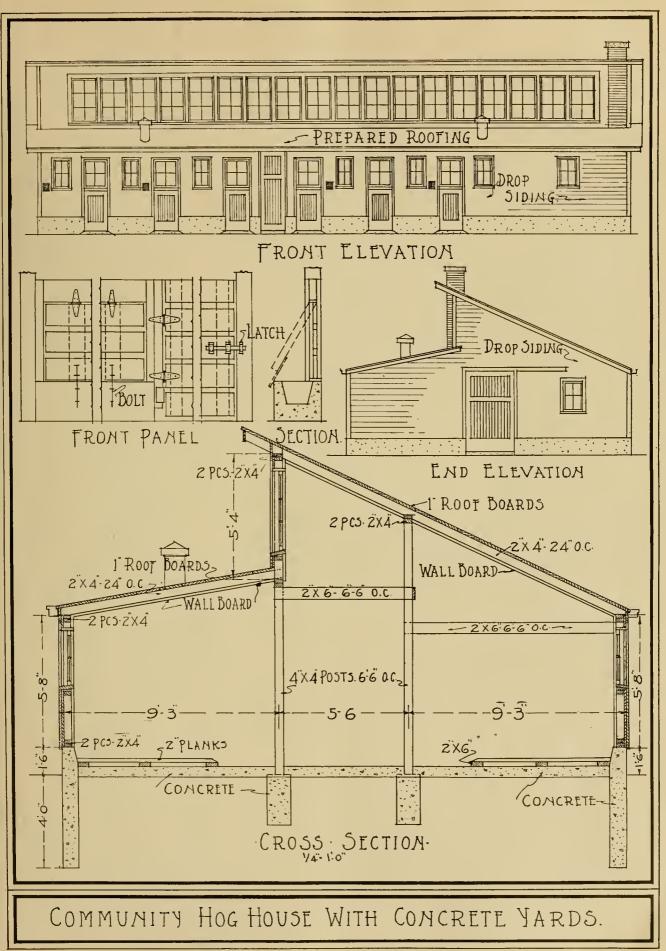
CROSS SECTION OF POULTRY HOUSE



Cross-Section of Lumber Yard Shed, Showing Approved Method of Construction.



Details of Winter Hog House of Modified Saw-Tooth Roof Type. Face This Building Toward the South, und It Will be Warm and Well Lighted All Winter.



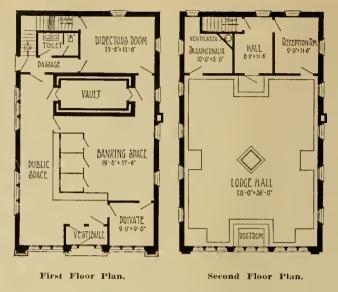
Working Drawings of Community Hog House Design. Elevations Drawn to Scale ½ Inch Equals One Foot. Cross Section Detail, ¼ Inch Equals One Foot

#### Bank Building and Lodge Hall

S INCE the building which is to contain a banking business and lodge hall is sure to become the center of business and social activities among the men in the community in which it is erected such a building should be somewhat out of the class of commonplace structures. Good substantial construction to which is added the necessary artistic treatment required to place it in somewhat of a class by itself are the most important of the several factors to be considered in the design of such a building. The finish of the exterior may be made very impressive by the use of ornamental face brick with terra cotta trim. The use of these materials has come to be standard in city construction and there is nothing which impresses the stranger with the progressiveness of a town more than to see the business section being built up with structures in which these modern materials are used.

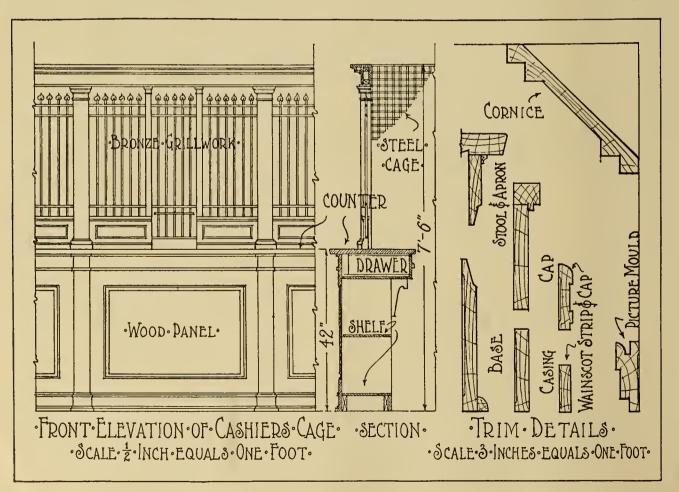
The building illustrated here occupies a corner lot and is 30 by 50 feet. The entire first floor is designed as a bank and the second floor is taken up by the lodge hall. The ornamental front is placed on the 30-foot side of the building. The portions of the front wall above the first floor windows and between the sets of second floor windows are finished with face brick while the entrance, columns and entablature are built of terra cotta. The small-paned windows add a great deal to the distinctive appearance of the building. There is a sufficiently elaborate treatment given all of the details to mark this building as one of importance among the various structures along the street upon which it would be placed.

The heavy brass trimmed door of the bank opens into a small vestibule in which there are entrance and exit doors connecting with the main corridor. At the right upon enter-

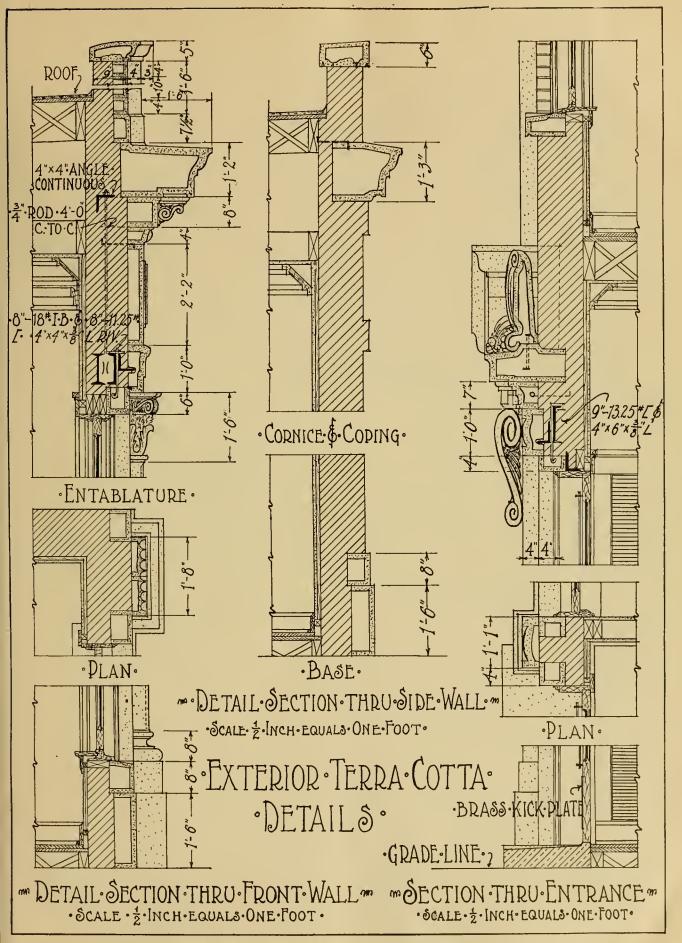


Arrangement of Bank Building.

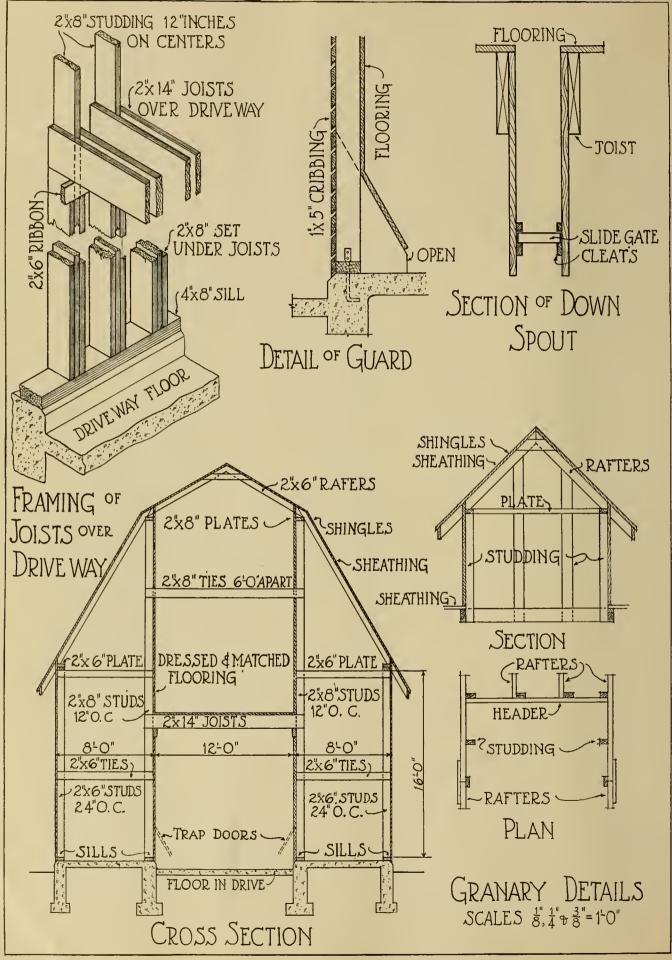
ing is a private office having doors both into the public square and into the banking space. Three cages are placed facing the side wall of the building and bounding the main corridor near the front of the bank. These cages are built up of wood panels from the floor to the counter, which extends from the private office along the side of the first cage and along the front of the three cages down the corridor. Above the counter there is a bronze grillwork on the outside of the cages and steel lattice partitions are used between cages.



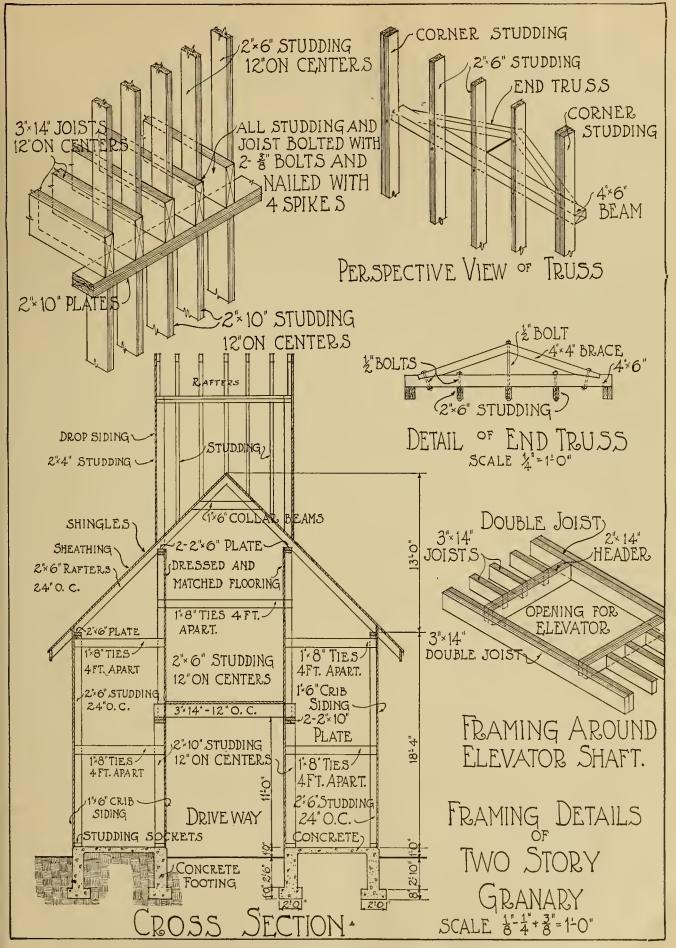
Front Elevation of Cashier's Cage and Trim Details in Bank Building.



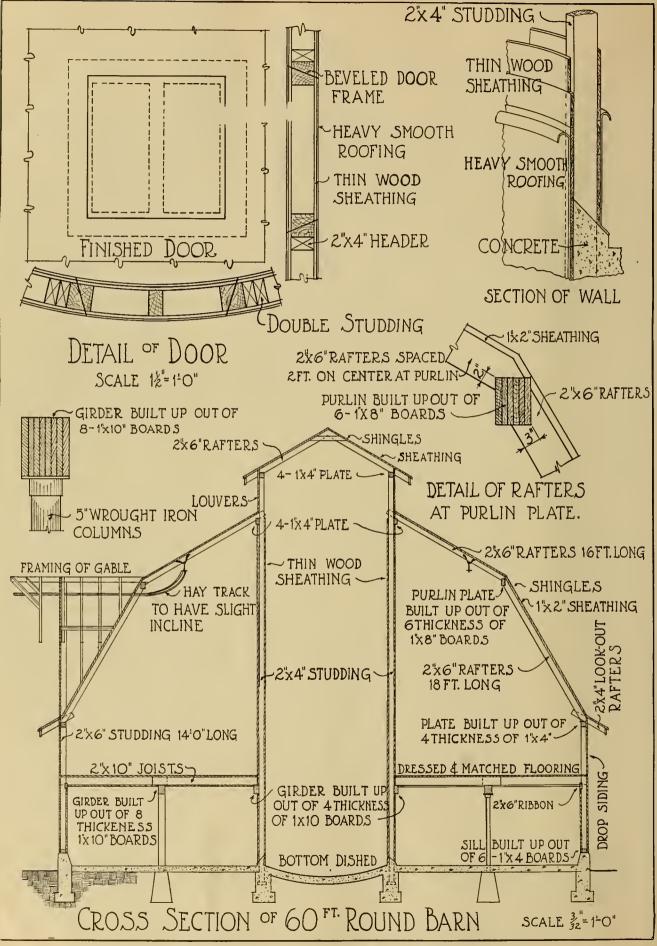
Details of Terra Cotta Ornamentation on Exterior of Bank Building.



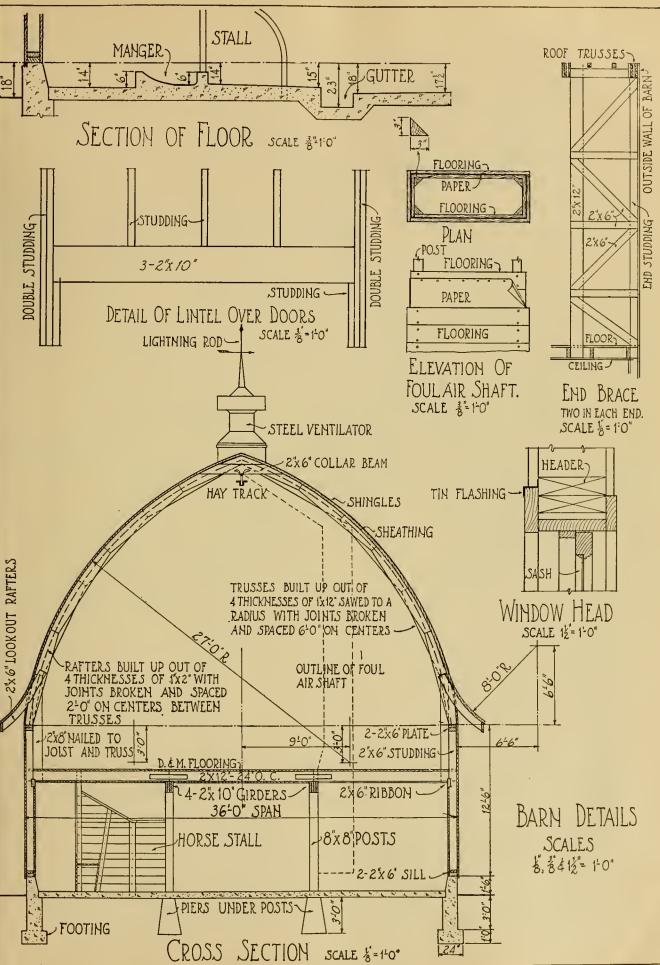
Construction Details of Two-Story Gambrel Roof Corn Crib and Granary.



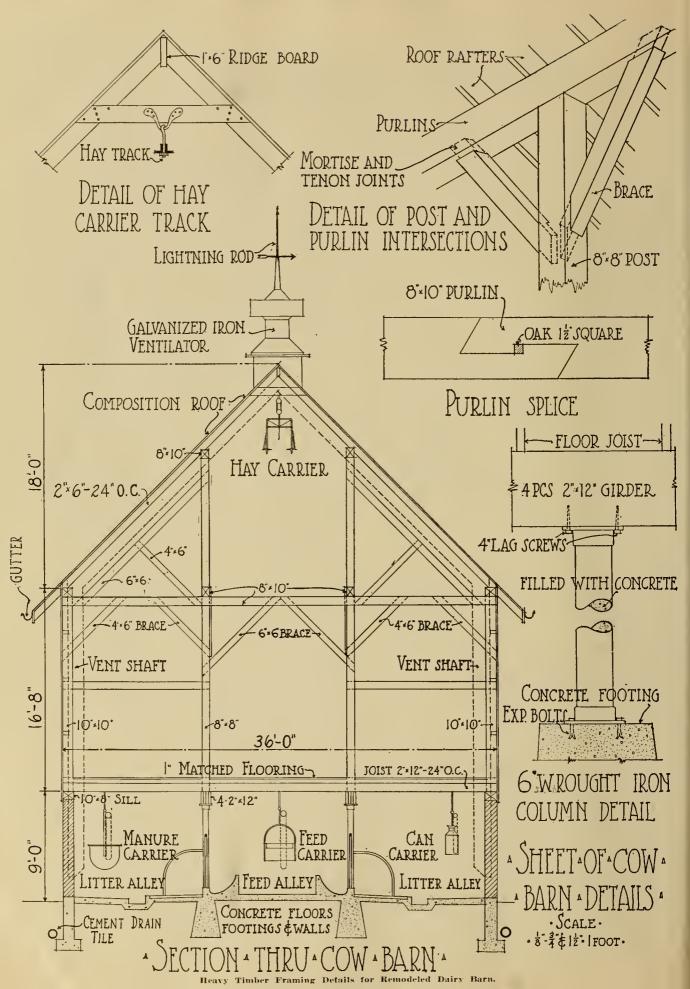
Details of Construction of Two-Story Gable Roof Combined Corn Crib and Granary.

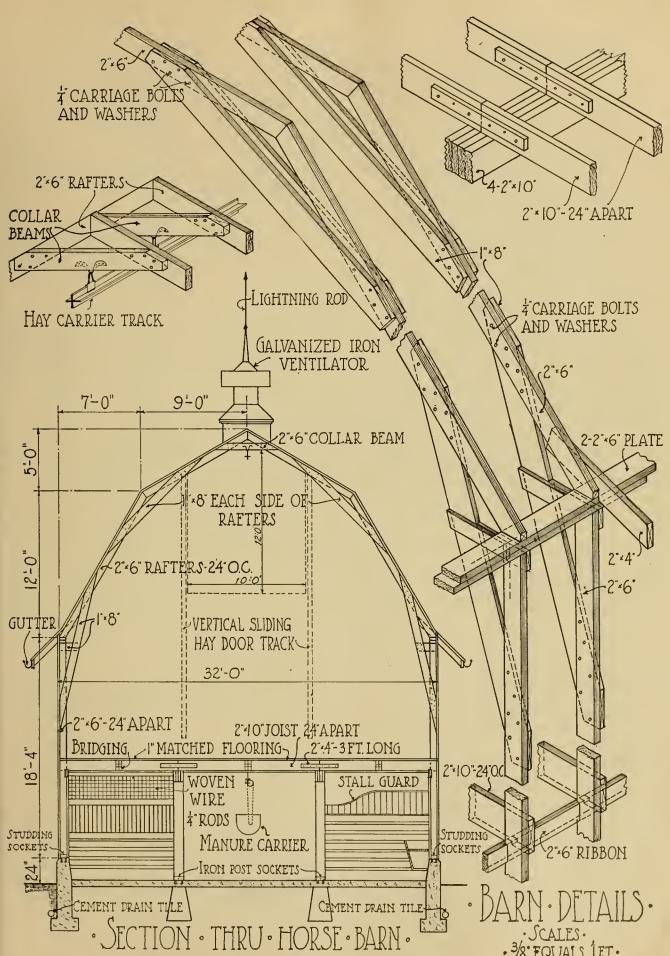


Details of Construction of 60-Foot Diameter Barn with Central Silo.

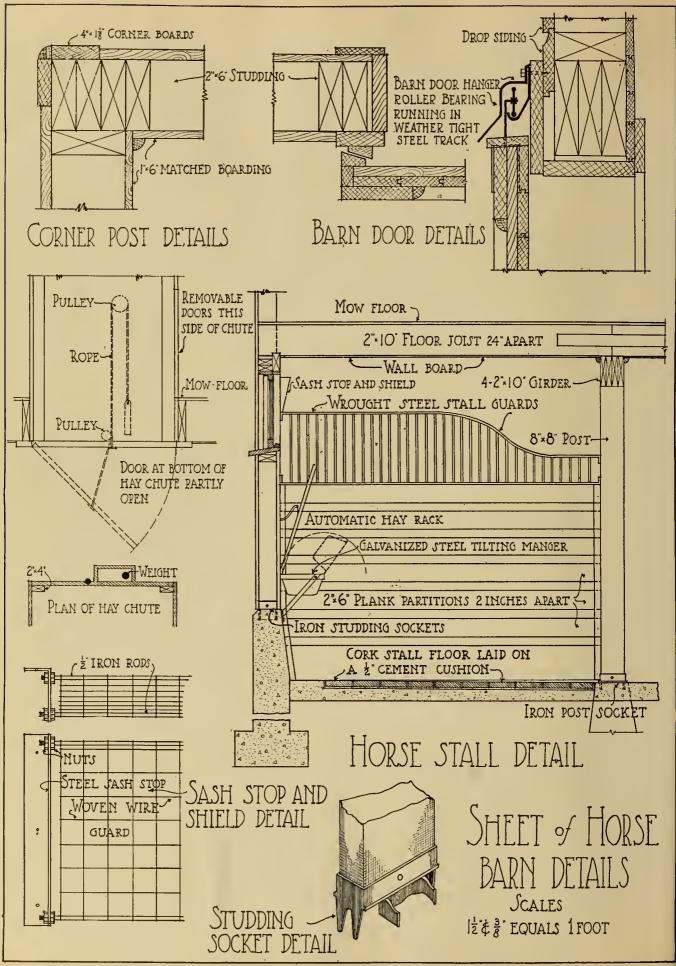


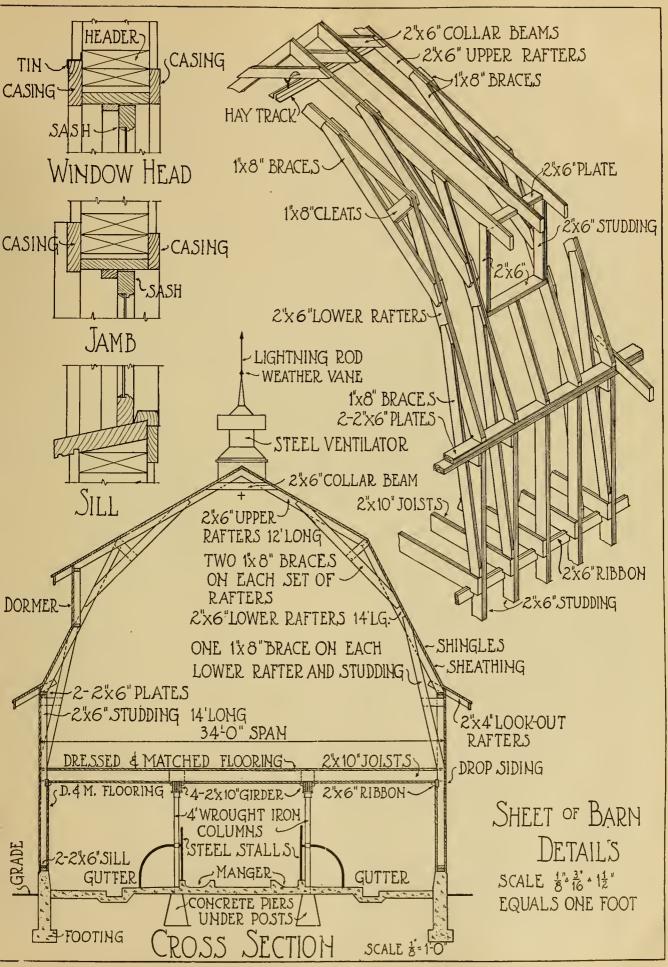
Details of Gothic or Curving Roof Barn.



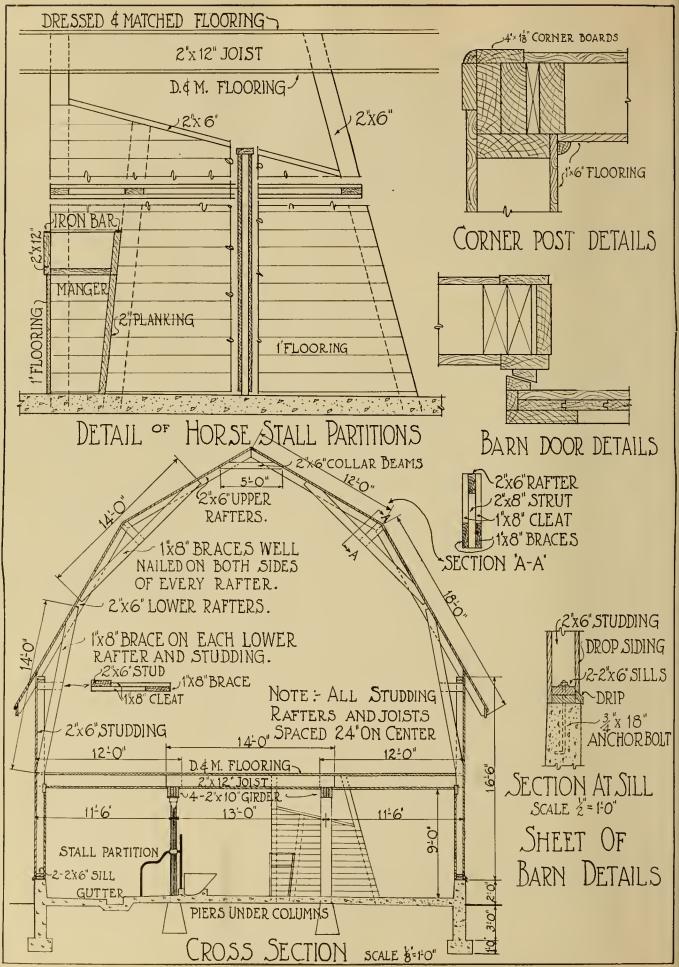


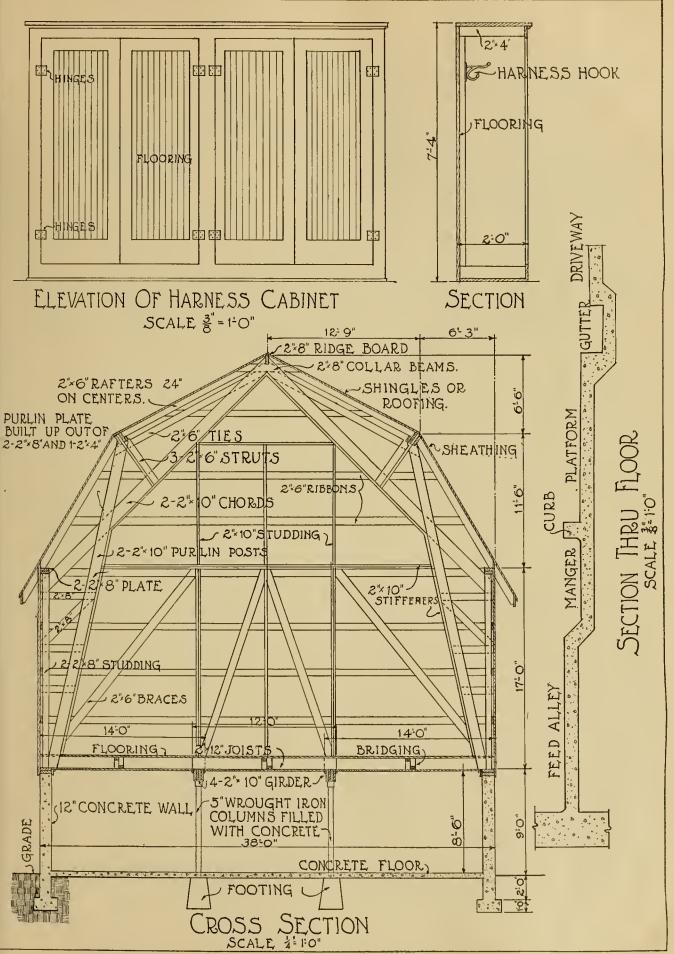
Details of Horse Barn. Roof Is Self-Supporting Plank Frame Construction of the Type Where Every Rafter Forms a Truss. Rafters Spased on 24-Inch Centers.



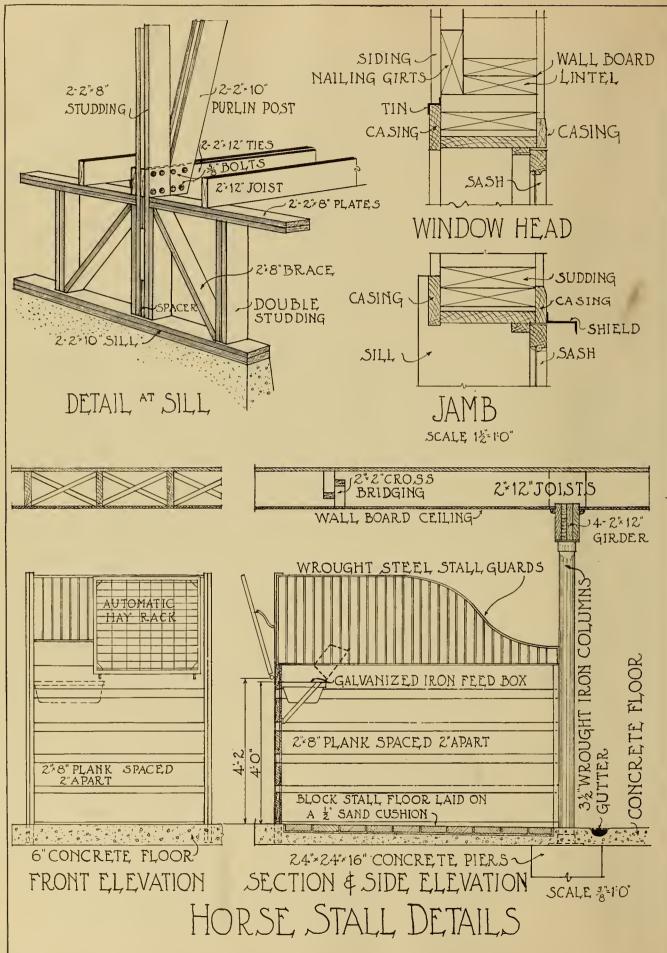


Details of Construction Drawn to Exact Scale of Gambrel Roof Barn with Dormers.

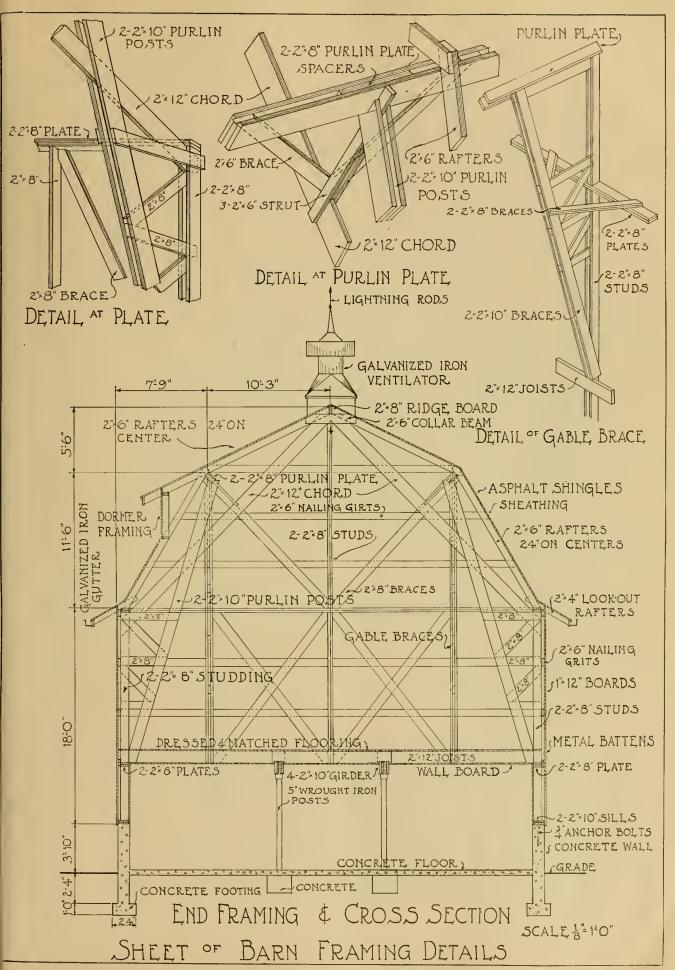




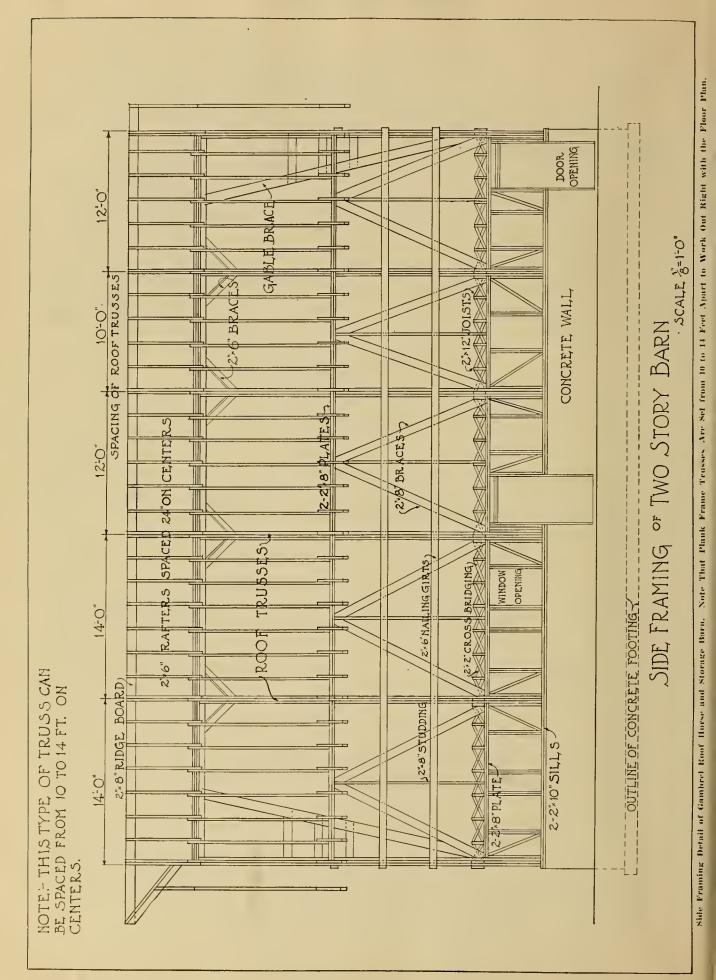
Cross-Section Thru Self-Supporting Gambrel Roof of Barn, Showing Also End Framing, Roof Trusses Are Spaced About 12 Feet Apart.



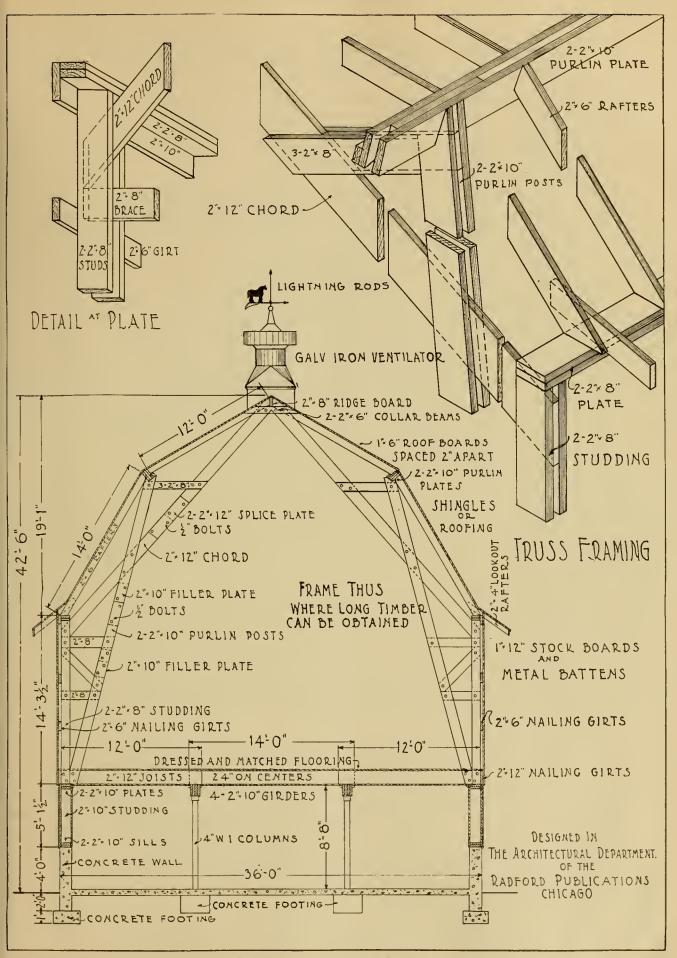
Details of Horse Stable Part of Combination Barn. Note Improved Stall Flooring of Creosoted Blocks Laid on the Concrete. Plank Frame Construction at Sill Also Clearly Shown.



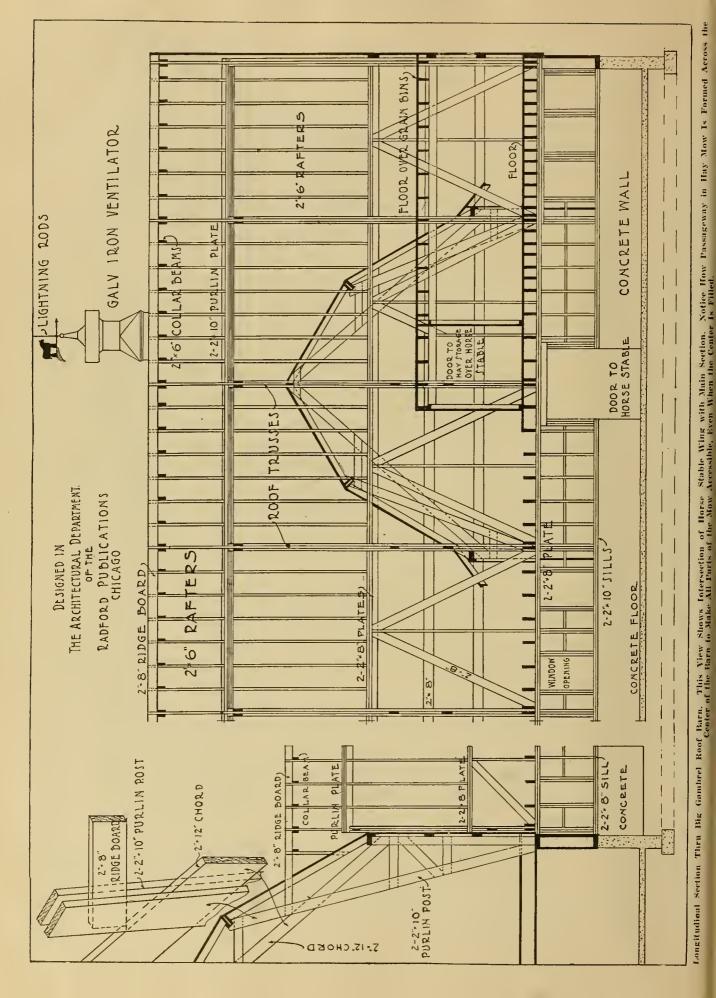
Detail of Gambrel Roof Horse Barn, Showing End Framing, and Also Intermediate Plank Frame Truss. Sketches Above Show Clearly the Principal Connection in This Type of Truss.

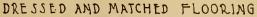


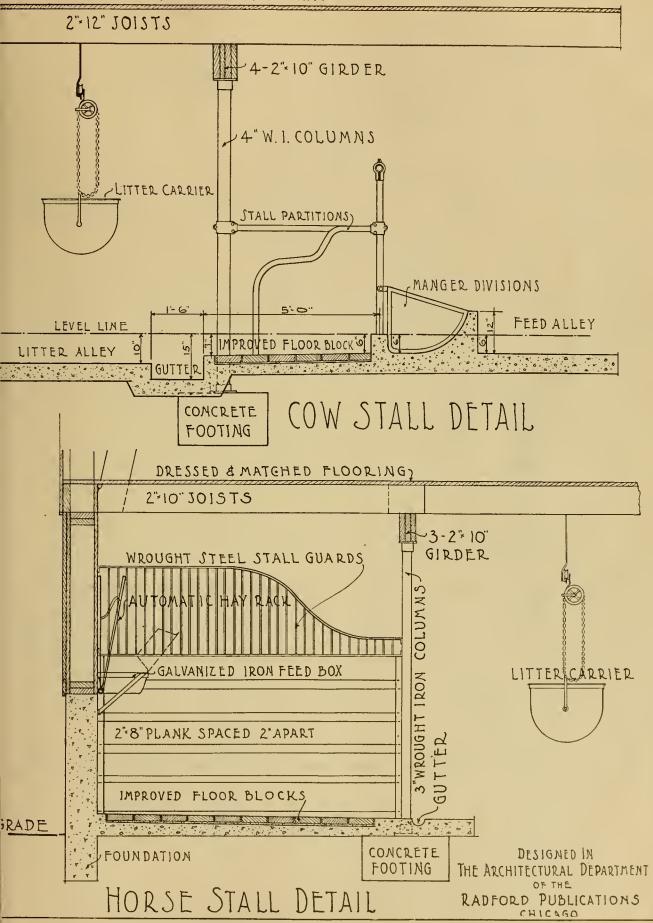
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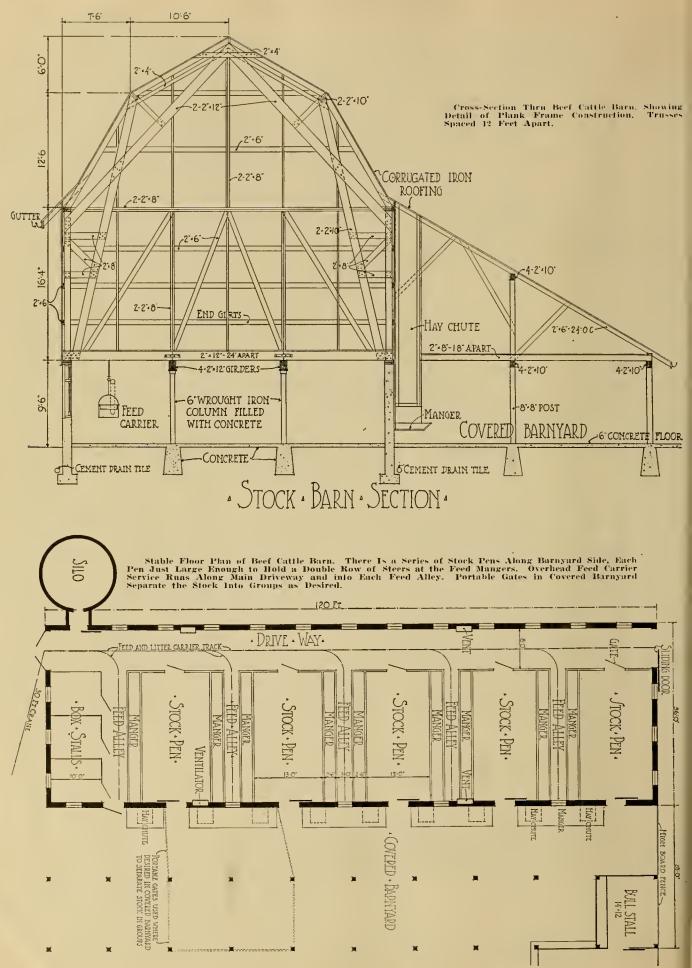
Cross-Section Thru Gambrel Roof Barn. This Is an Example of Radford's Standardized Plank Frame Construction, Making Use of 2-Inch Plank Carried Regularly in Stock at All Lumber Yards.

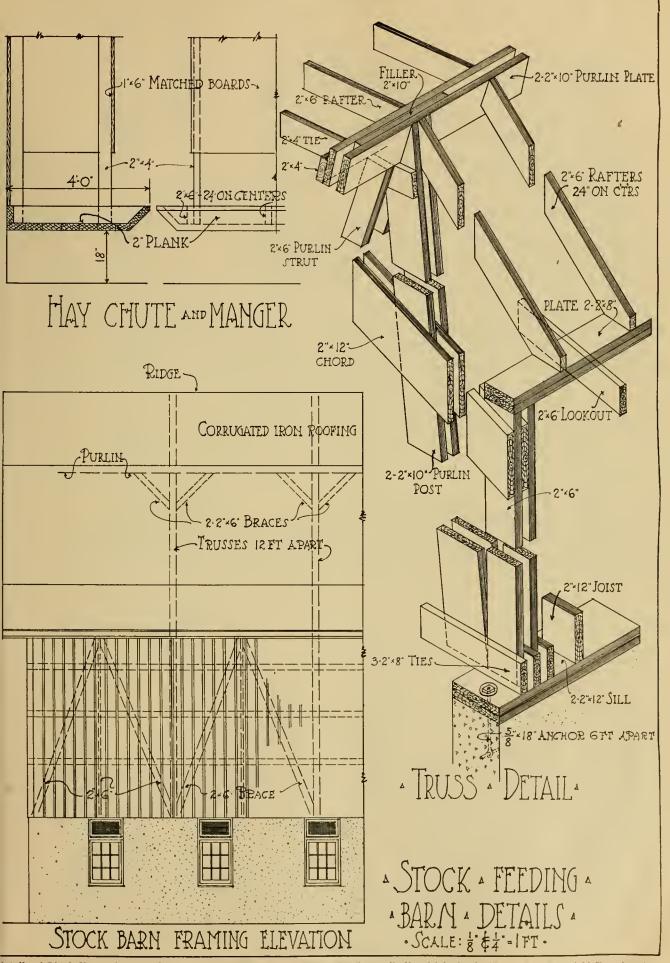




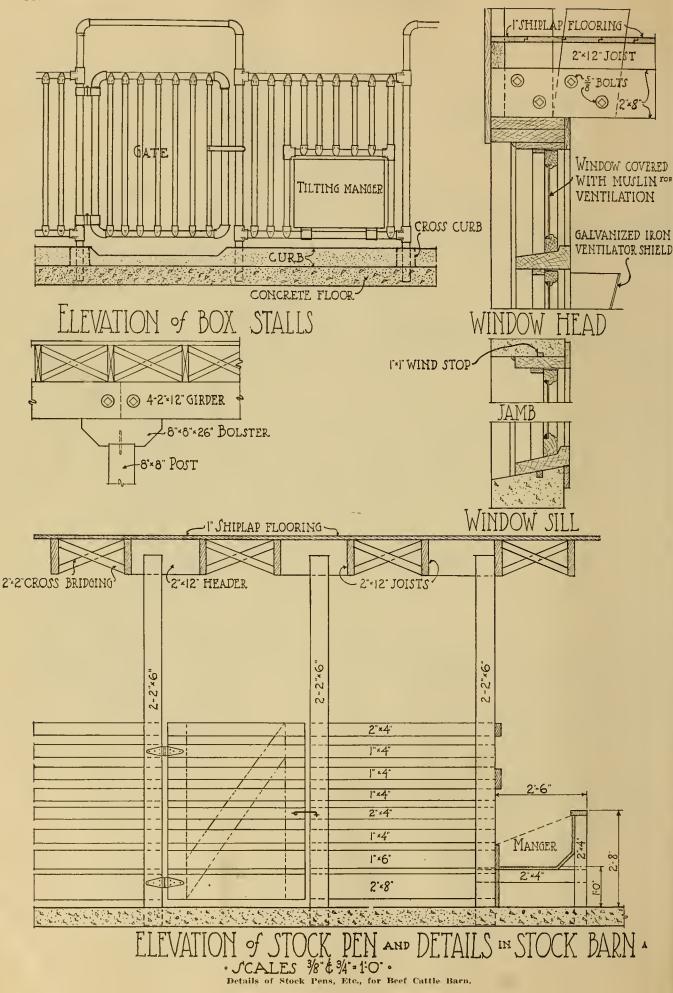


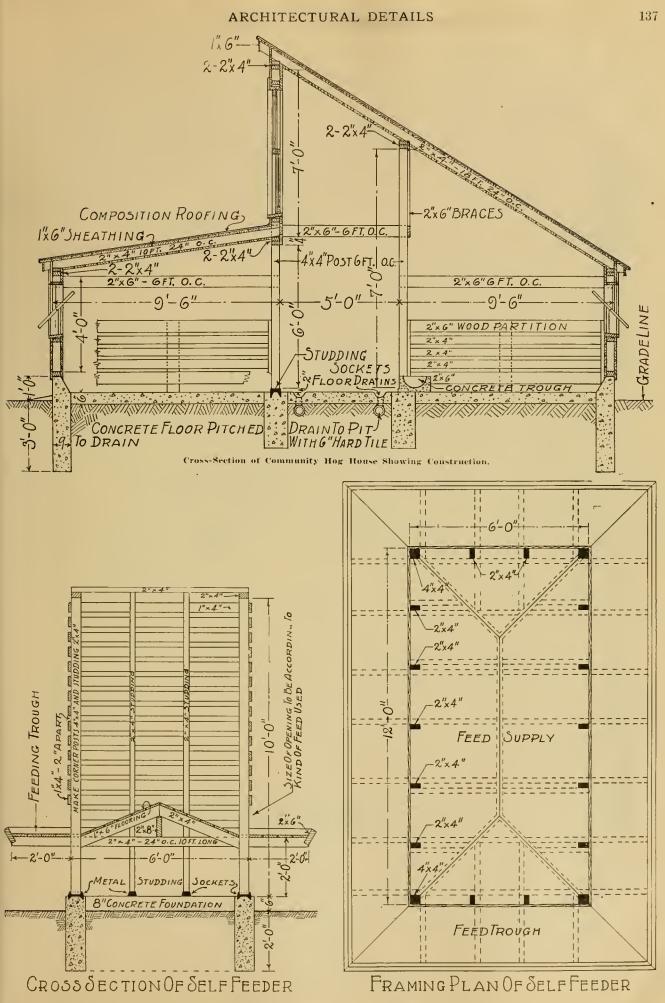
Details of Sanitary Cow Stalls and Horse Stalls in Big Barn,

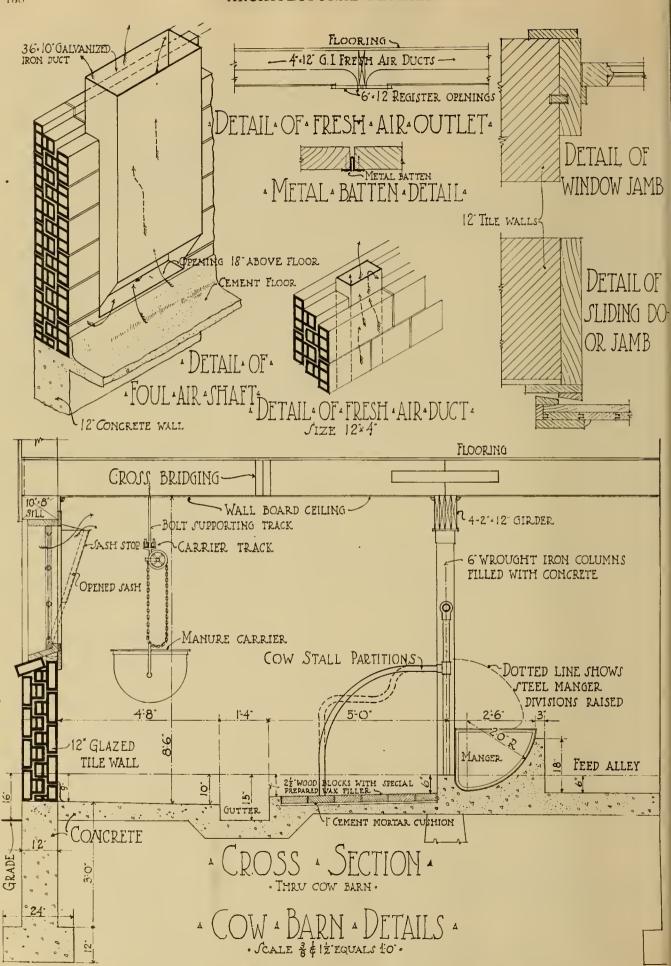




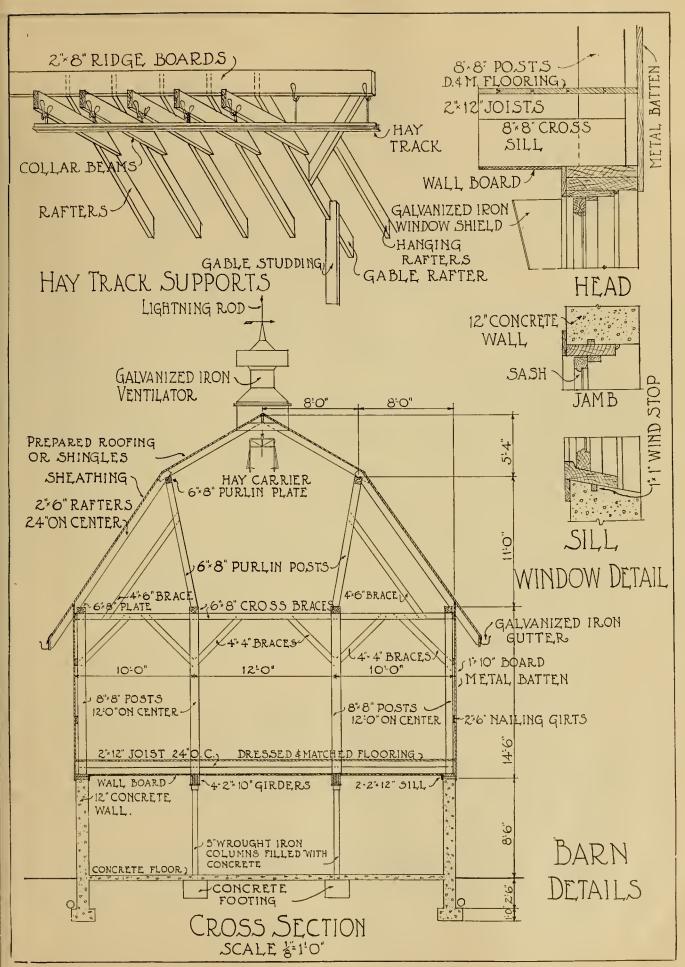
Details of Plank Frame Construction for Beef Cattle Barn. These Trusses Are Built Up of 2-Inch Planks and Are Spaced 12 Feet Apart.

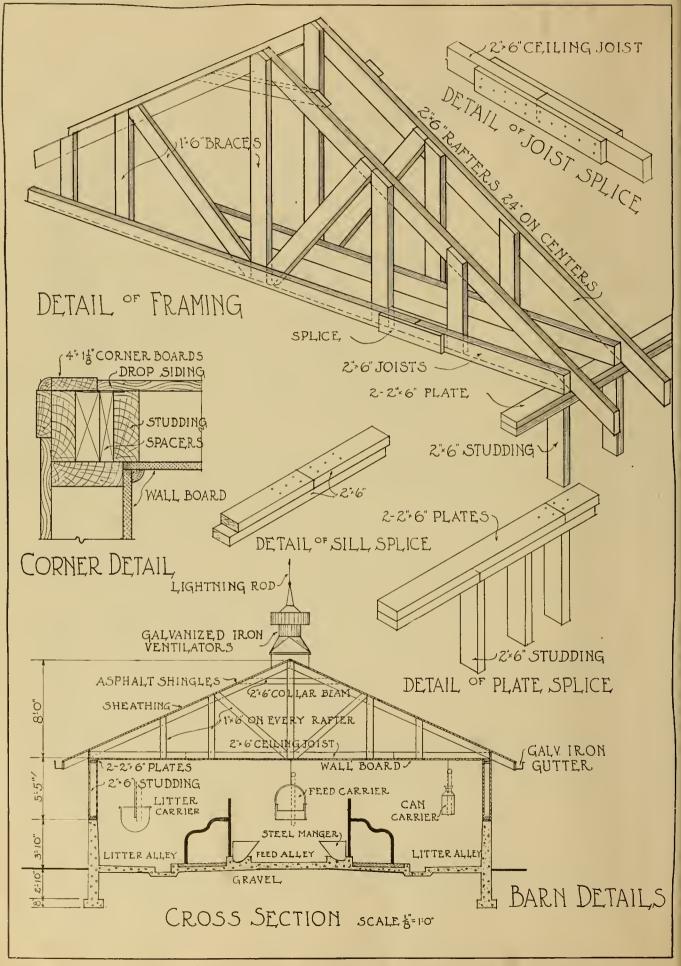




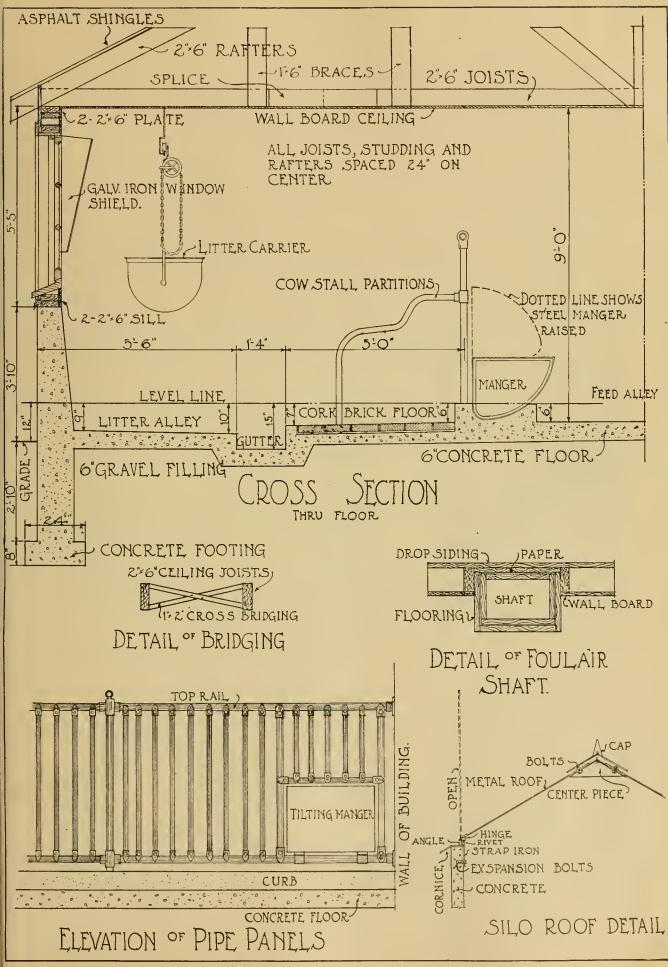


Working Details of Dairy Stable Basement for Remodeled Cow Barn.

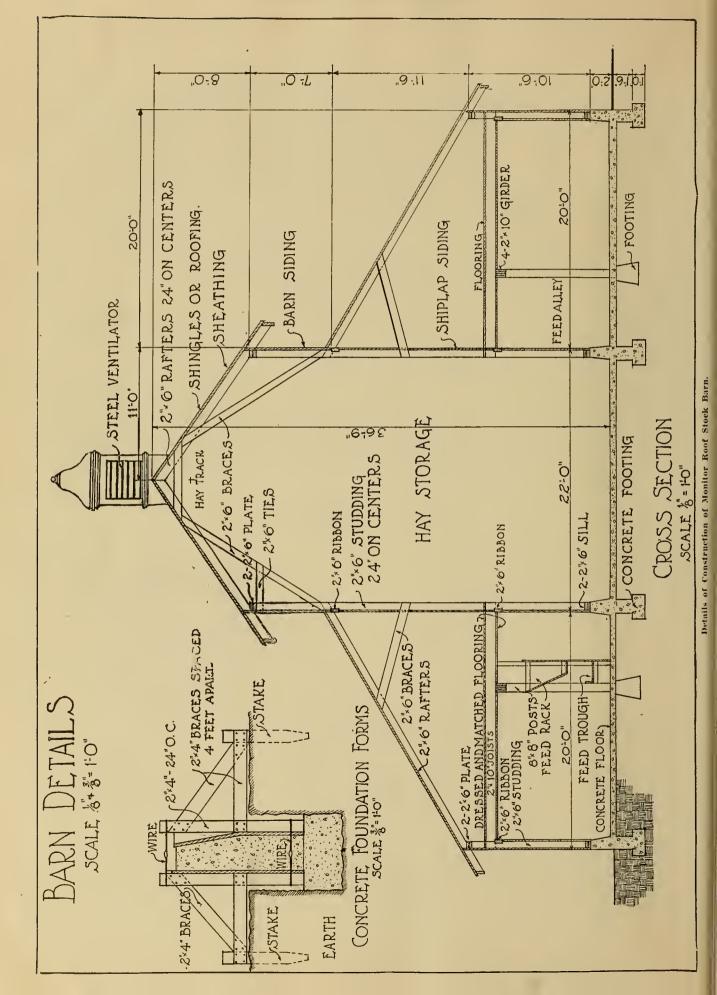


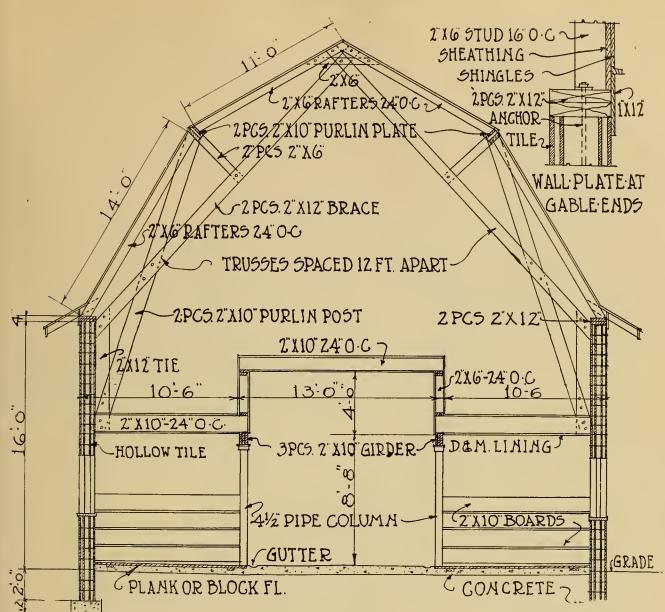


Details of Gable Roof Dairy Stable. Span of Roof 32 Feet. Concrete Foundation Walls Extend Vp 3 Feet 10 Inches. Above This the Inside 1s Lined with Wall Board, for Both Side Walls and Ceiling.

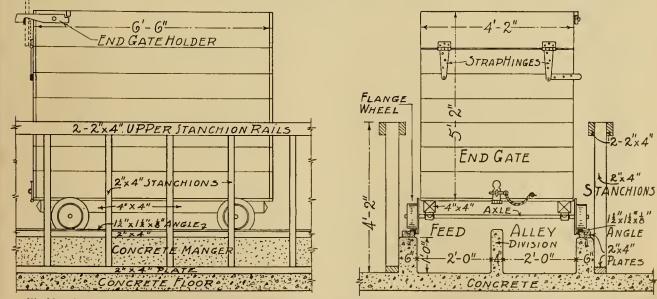


Details of Daicy Stable. Note How Cow Stalls Are Floored with Cork Brick. Cow Stall Partitions and Pens of Metal Piping Also Specified. Note Improved Silo Roof Details, Which Shows How to Put on an Extension Metal Roof.

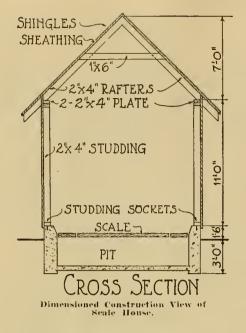


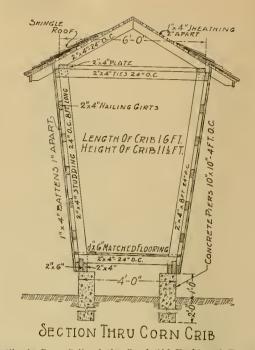


Section Thru Hollow Tile Horse and Cow Barn, Showing Framing for Self-Supporting Roof. The Tile Walls Extend Clear Up to the Eaves. The Purlin Braces Come Down to the Floor Joists and Are Tied to the Ends of the Truss Chord Above at the Plate Line by Means of Two Pieces of 2 by 12 for Each Truss. This Takes the Outward Thrust Away from the Top of the Tile Wall.

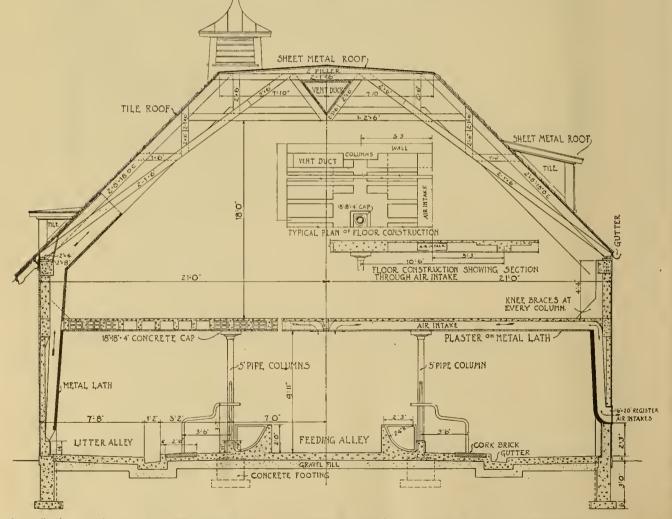


Working Drawings of Handy Cart for Feeding Silage. The Cart Runs on a Light Angle-from Track the Length of the Feed Alley. It is Filled Directly from the Silo, and When the End Gate is Opened the Silage is Raked Out and Distributed with a Mioimum of Time and Lahor.

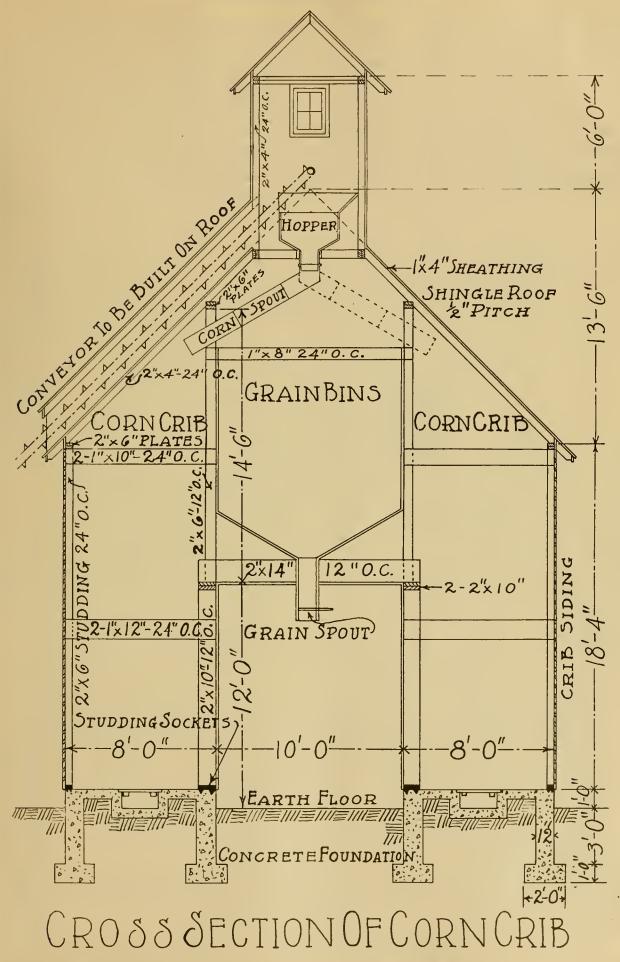




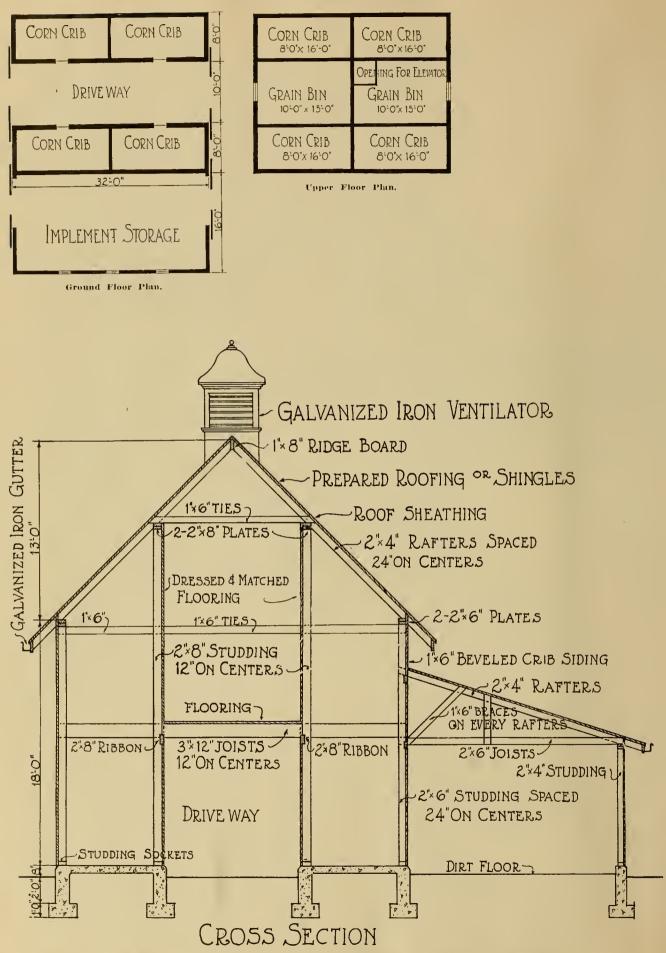
Small Single Corn Crib of the Good Old-Fashioned Type Resting on Concrete Posts 12 Inches Above Ground to Keep Out the Rats and Mice. The Building 1s 4 Feet Wide at the Base, Sloping Outward to a 6-Foot Width at the Plates. The Height 1s 11½ Feet and the Length 16 Feet; 1 by 4-Inch Battens Placed 1 Inch Apart Form the Sloping Side Walls and Assure Plenty of Ventilation. For Convenience in Filling, There Are Two Small Doors High Up in the Side. A Good, Tight, Well Framed Roof 1s Provided, Making This a Very Secure Corn Crib.



Cross-Section of Fireproof Dairy Stable of Reinforced Concrete, Showing Some of the Construction Features. The Air Intake Is Built Thru the Ceiling Over the Stable, Which Is of Concrete and Tile. The Truss Framing for the Roof Is Unusual.



Details of Construction of High Corn Crib and Granary. Note How the Distributing Hopper 13 Arranged in the Cupola-



Cross-Section Thru Combined Corn Crib, Grain House and Implement Storage Shed.

#### **Roof Truss for 36-Foot Barn**

Question—Would plank frame construction be heavy enough for a barn 36 feet wide, or would it be advisable to use another form of truss? What size plank should be used in a barn 36 feet wide, using 18-foot studding, 2 by 6's? There will be 2 by 6 rafters, two 2 by 6's for plates, 4 by 6's for sills, 2 by 10's for joists, and two 2 by 12's for girders, with 4 by 6 supports placed 9 feet apart. The joists would be 16 feet long between wall and girder.

Would you advise tying with a 2 by 6 at a point just below the plate to the floor joists, say at an angle of 45 deg.? The braces on the rafters are to be 1 by 8's.

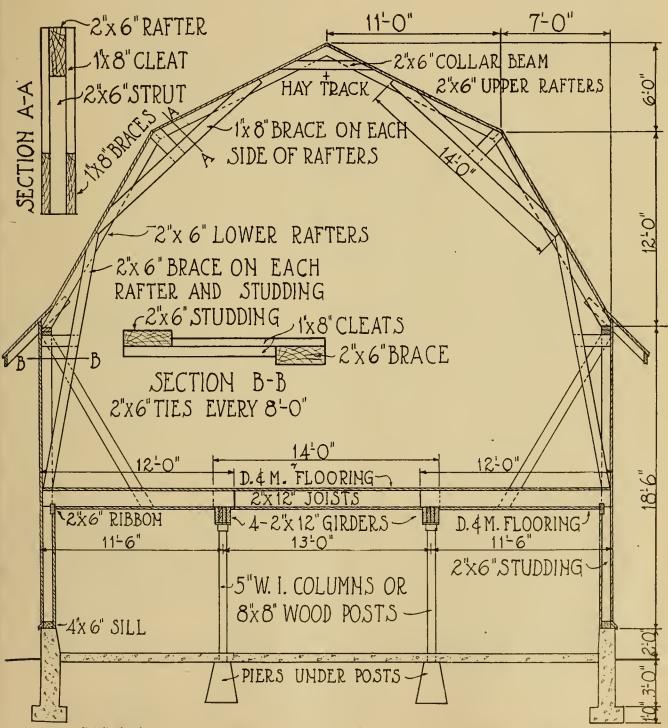
*Answer*—If you will cover the joints of the intersecting raiters with 1 by 8-inch cleats on each side, it will strengthen

this point very much (see detail at section A-A). The 1 by 8-inch braces on each side of the rafters are heavy enough for a barn of ordinary construction, if it is not exposed too much to high wind.

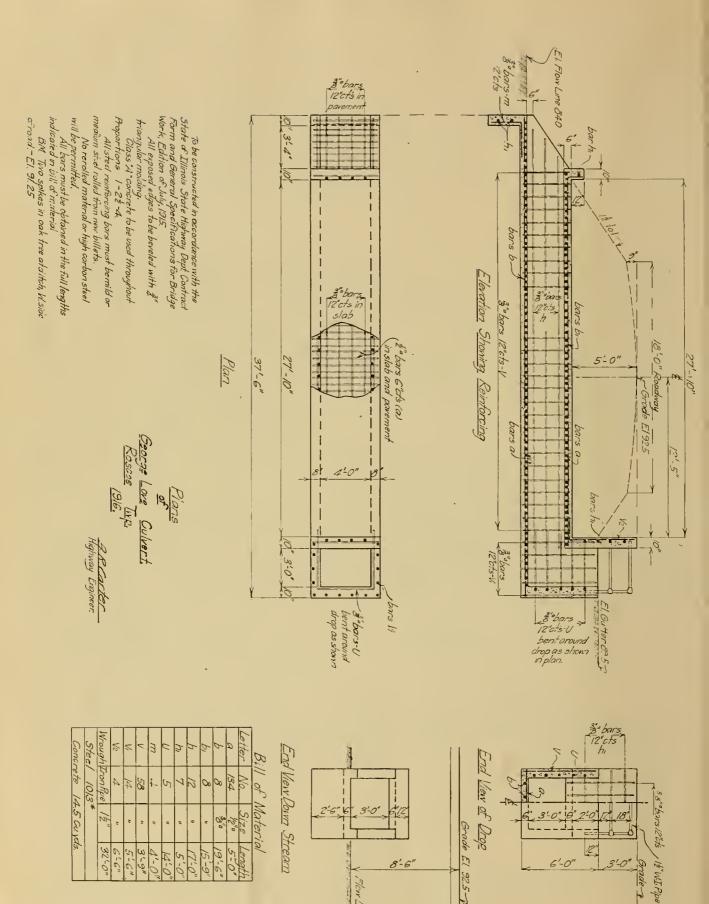
For a barn with 18-foot studding use 2 by 6-inch timbers instead of 1 by 8-inch for the lower brace.

If the barn is exposed to high winds, we would advise tying with a 2 by 6-inch at the point just below the floor joists, spaced 8 feet on centers.

In regard to the floor joists, 2 by 10-inch are not heavy enough for a span of 16 feet with the amount of hay storage that you have to carry. We would recommend using 2 by 12-inch joists and spacing the posts 11 feet 6 inches from the outside wall. This would make the span more evenly spaced.



Detail Showing Recommended Sizes for Various Members in Plank Frame Barn That Is 36 Feet Wide,



DESIGN AND CONSTRUCTION OF SPECIAL HIGHWAY DRAINAGE STRUCTURES. Detail Illustrating a Type of Box Culvert Used to Drop Elevation of Water Flow Line Without Scouring of Soll.

Flow Line

8'-6"

-0

6

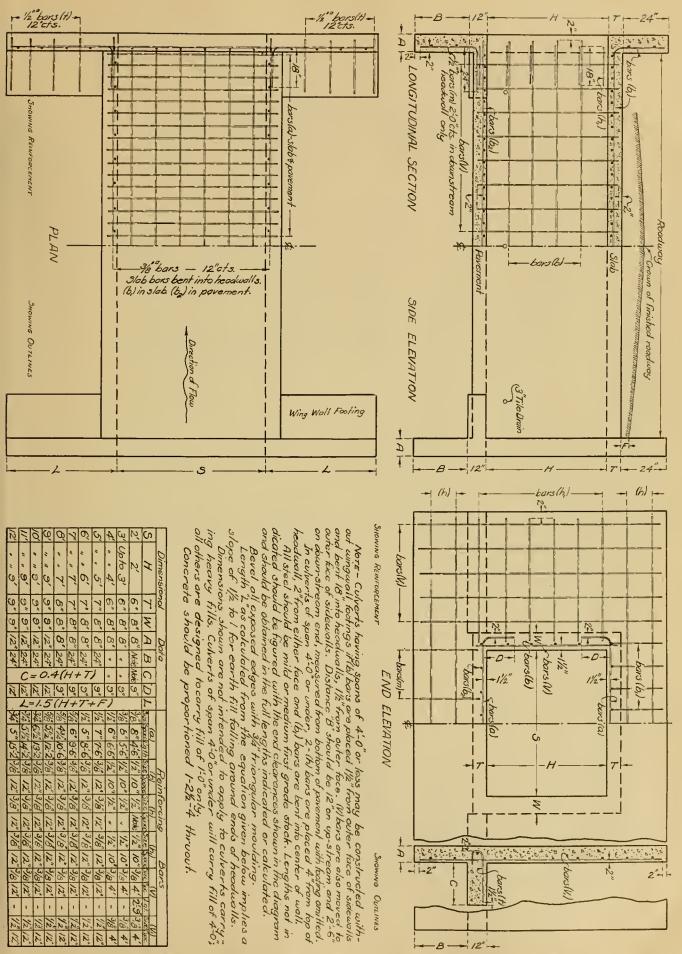
· Iz"W.T. Pipe

Grade-1

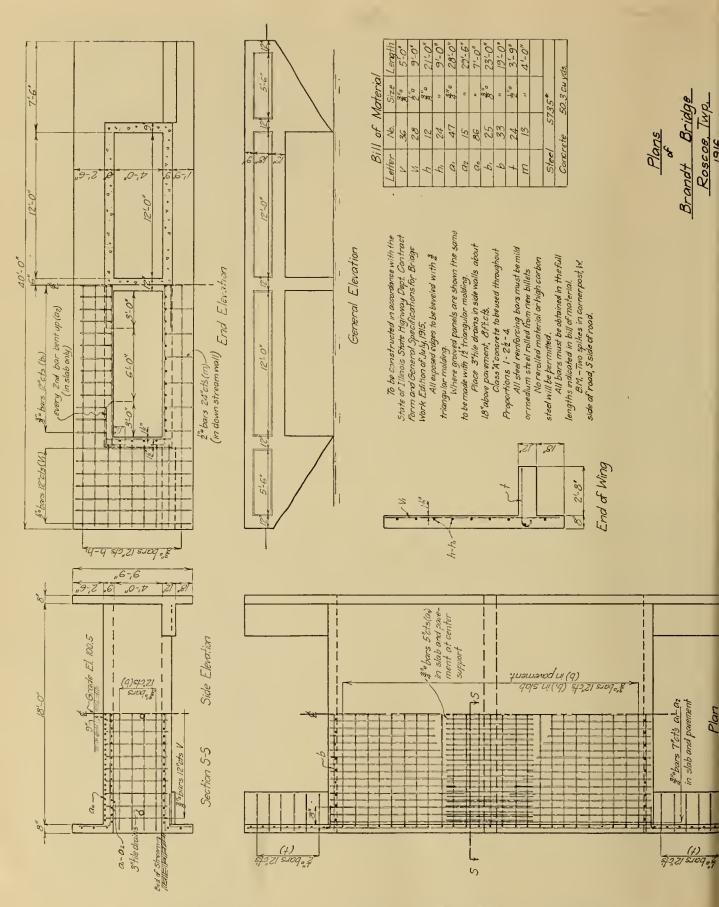
4 17:0

J.

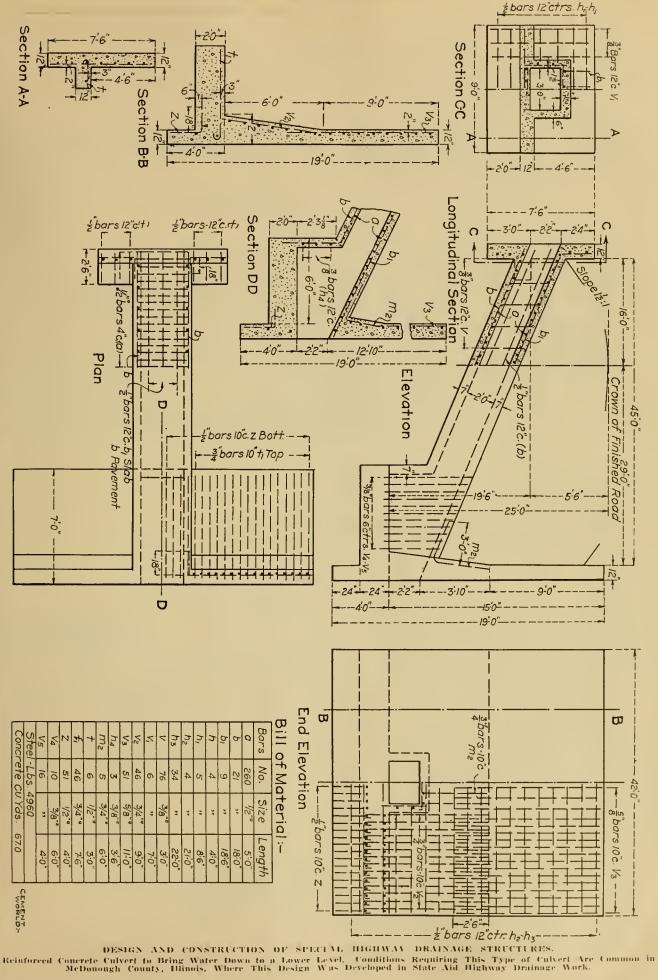
## ARCHITECTURAL DETAILS

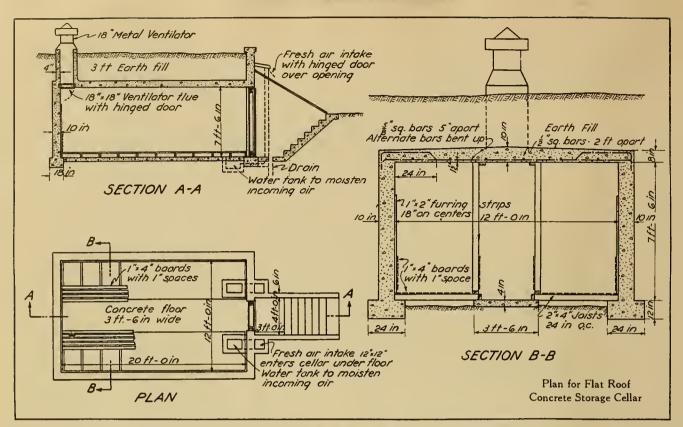


DESIGN AND CONSTRUCTION OF SPECIAL HIGHWAY DRAINAGE STRUCTURES. Plan for Reinforced Concrete Box Culverts of Span 12 Feet or Less and Height 9 Feet or Less

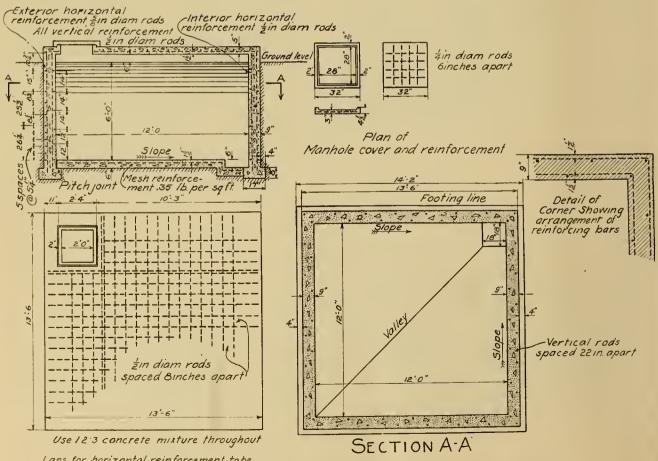


DESIGN AND CONSTRUCTION OF SPECIAL HIGHWAY DRAINAGE STRUCTURES. Double Box Culvert Designed to Reduce the Cost of a Long Span Necessary Because of Limited Vertical Clearance.

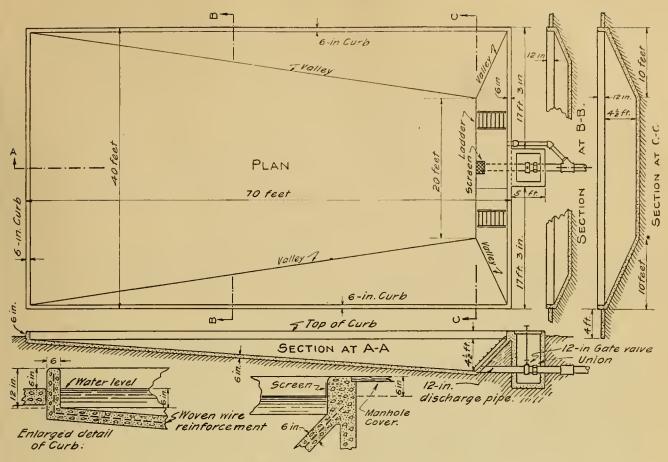




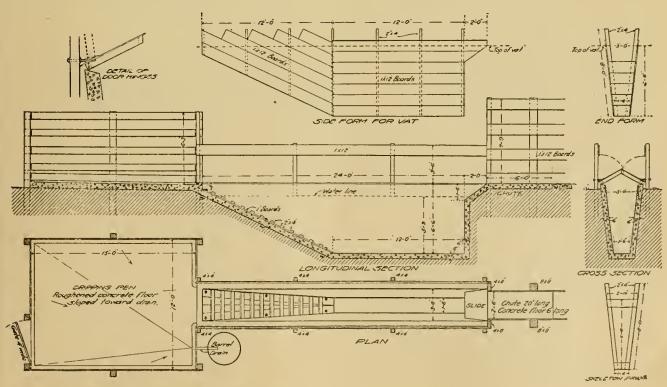
Storage Cellar with a Capacity of 800 Bushels. Greater or Less Capacity Can Be Secured by Adding to or Taking from the Length of the Plan, Each Additional Foot of Length Increasing the Storage Capacity 40 Bushels.



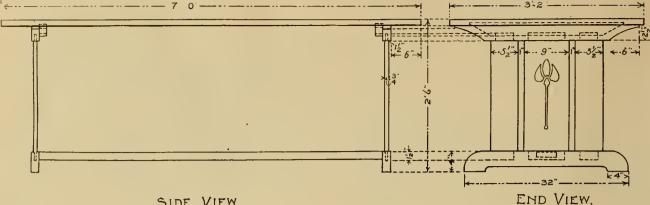
Laps for horizontal reinforcement tobe 50 diameters and should not accur at corners.



Details of Concrete Swimming Pool,



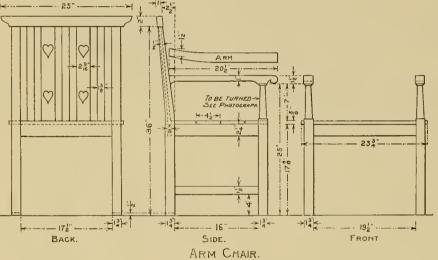
Plans for a Concrete Dipping Vat for Cattle, as Recommended by the U. S. Department of Agriculture.



SIDE VIEW

#### ARCHITECT'S OR BUILDER'S TABLE.

STOCK BILL FOR OFFICE TABLE Top, 1 piece,  $1\frac{1}{8}$  by  $38\frac{1}{2}$  by 85 inches, S-2-S. Top end rails, 2 pieces,  $1\frac{1}{2}$  by  $3\frac{1}{4}$  by 38 inches, S-2-S. Bottom end rails, 2 pieces,  $1\frac{1}{2}$  by  $4\frac{1}{4}$  by  $32\frac{1}{2}$  inches, S-2-S. Cleats, 2 pieces,  $1\frac{1}{2}$  by  $2\frac{1}{2}$  by 32 inches, S-2-S. Stretcher, 1 piece,  $1\frac{1}{2}$  by  $7\frac{1}{4}$  by 70 inches, S-2-S. Slats, 2 pieces,  $\frac{3}{4}$  by  $9\frac{1}{4}$  by 26 inches, S-2-S. Slats, 4 pieces, 3/4 by 53/4 by 26 inches, S-2-S.



STOCK BILL FOR CHAIR

Front posts, 2 pieces, 13/4 by 13/4 by 26 inches, S-4-S.

Back posts, 1 piece, 134 by 51/2 by 37 inches, S-2-S. Seat rails, 2 pieces, 7/8 by 21/2 by 18 inches, S-2-S.

Seat rail, 1 piece, 7% by 2½ by 21½ inches, S-2-S. Seat rail, 1 piece, 7% by 3½ by 19½ inches, S-2-S.

Lower rails, 2 pieces, 5% by 13/4 by 18 inches, S-2-S.

Seat, 4 pieces, 5% by 434 by 24 inches, S-2-S.

Arms, 2 pieces, 1½ by 3 by 21 inches, S-2-S.

Back, 1 piece, 1 by 21/4 by 251/2 inches, S-2-S.

Back slats, 2 pieces, 1/2 by 23/4 by 19 inches, S-2-S.

Back slats, 3 pieces, 1/2 by 15/8 by 19 inches, S-2-S.

#### STOCK BILL FOR DRAFTING TABLE

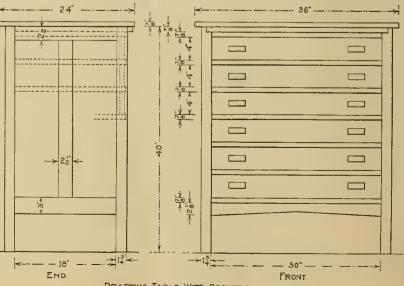
Top, 1 piece,  $\frac{7}{8}$  by  $\frac{24\frac{1}{2}}{24\frac{1}{2}}$  by  $\frac{36\frac{1}{2}}{24\frac{1}{2}}$  inches, S-2-S. Posts, 4 pieces,  $\frac{134}{24}$  by  $\frac{134}{24}$  by  $\frac{40\frac{1}{2}}{24\frac{1}{24}}$  inches, S-4-S. Side paneling-

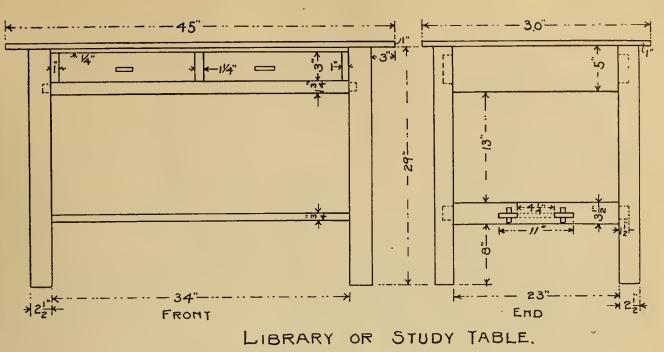
Rails, 2 pieces, 34 by 314 by 20 inches, S-2-S. Rails, 2 piece, 34 by 234 by 20 inches, S-2-S.

- Munting, 2 pieces,  $\frac{3}{4}$  by  $\frac{3}{4}$  by  $\frac{261}{2}$  inches, S-2-S.
- Panels, 4 pieces, 5/16 by  $8\frac{1}{2}$  by  $25\frac{1}{2}$  inches, S-2-S.
- Back paneling-
- Rail, 1 piece, 3/4 by 31/4 by 32 inches, S-2-S.
- Rail, 1 piece, 3/4 by 23/4 by 32 inches, S-2-S.
- Munting. 2 pieces, 34 by 234 by 261/2 inches, S-2-S. Panels, 3 pieces, 5/16 by 9 by 251/2
- inches, S-2-S. Facing, 1 piece, 3/4 by 23/8 by 321/2 inches,
- S-2-S.
- Slide, 2 pieces, 34 by 134 by 22 inches, S-2-S. Slide, 2 pieces, 3/4 by 13/4 by 33 inches,
- S-2-S.
- Slide, 1 piece, 1/2 by 16 by 28 inches, S-2-S.
- Drawer supports, 14 pieces, 7% by 21/2 by 20 inches, S-2-S. Drawer supports, 14 pieces, 7% by 21/2 by

321/2 inches, S-2-S.

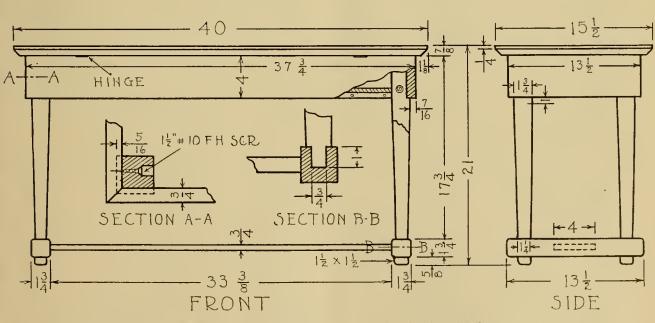
Drawer guides, 14 pieces, 34 by 34 by 20 inches, S-2-S. Drawer fronts, 6 pieces, 34 by 414 by 301/2 inches, S-2-S. Drawer ends, 12 pieces, 3/2 by 41/4 by 20 inches, S-2-S. Drawer backs, 6 pieces, 3/8 by 4 by 30 inches, S-2-S. Drawer bottoms, 6 pieces, 3/8 by 20 by 30 inches, S-2-S.





STOCK BILL FOR LIBRARY TABLE Top, 1 piece, 1 by 30½ by 45½ inches, S-2-S. Legs, 4 pieces 2½ by 2½ by 29½ inches, S-4-S. Back rail, 1 piece, 34 by 5¼ by 37 inches, S-2-S. End rails, 2 pieces, 34 by 5¼ by 26 inches, S-2-S. Front rail, 1 piece, 34 by 2 by 37 inches, S-2-S. Shelf, 1 piece, 34 by 11¼ by 40 inches, S-2-S. Drawer facings, 2 pieces, 34 by 3¼ by 16 inches, S-2-S. Drawer sides, 4 pieces, 3% by 31/4 by 26 inches, S-2-S. Drawer backs, 4 pieces, 3% by 3 by 16 inches, S-2-S. Drawer bottoms, 2 pieces, 3% by 26 by 16 inches, S-2-S. Drawer slides, 3 pieces, 3/4 by 23/4 by 26 inches, S-2-S. Drawer guides, 3 pieces, 3/4 by 11/2 by 26 inches, S-2-S. Tie, over drawers, 1 piece, 1/2 by 23/4 by 36 inches, S-2-S.

The remaining pieces, keys, and short facings about the drawers may be got from scrap stock.



Construction Details of a Strong and Serviceable Piano Bench.

STOCK BILL FOR PIANO BENCH, GIVING FINISHED SIZES

Cover, 1 piece, 7/8 by 151/2 by 40.

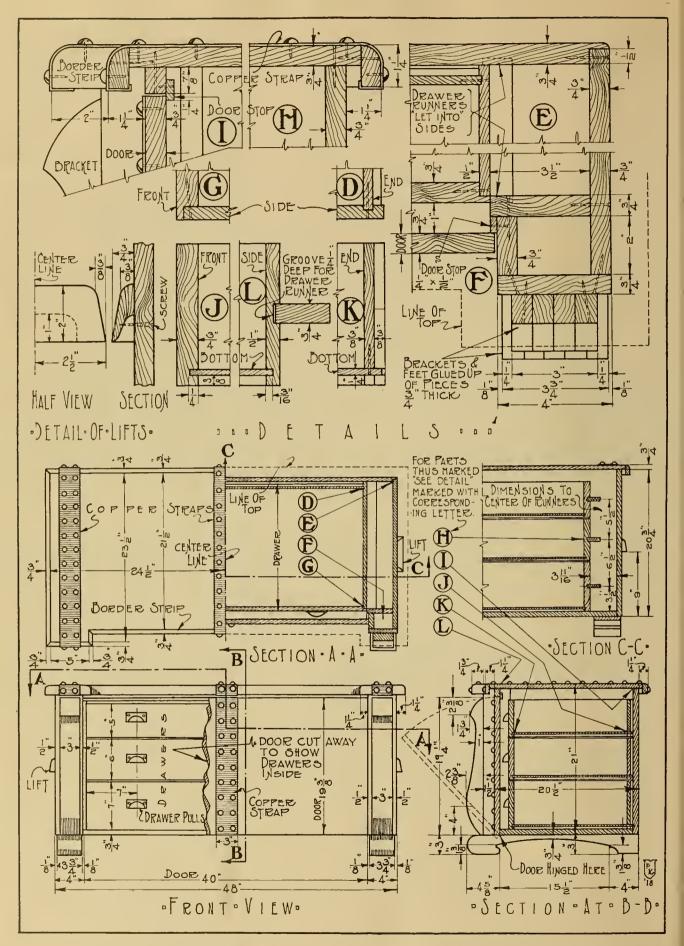
Posts, 4 pieces, 13/4 by 13/4 by 183/4 (one 1-inch tenon).

Frame, 2 pieces, 3/4 by 4 by 373/4.

2 pieces,  $\frac{3}{4}$  by 4 by  $13\frac{1}{2}$ .

Lower rail. 2 pieces, 13/4 by 13/4 by 131/2.

Stretcher, 1 piece, 34 by 4 by 351/8 (two 7%-inch tenons) Blocks, 4 pieces, 5% by 11/2 by 11/2. Bottom, 1 piece, 5/16 by 12 by 361/4 (wallboard). 2 pieces, 3% by 3% by 333/8. 2 pieces, 3% by 3% by 91/8. Hardware, 1 pair 3/4 by 21/2 nickel plated butts. 16 11/2-inch No. 10 F. H. screws.



Working Details of a Cedar Chest of Unique and Attractive Design.

# INDEX TO ARCHITECTURAL DETAILS For Every Type of Building

# A Collection of Authoritative Plates for Contractors, Builders, Lumber Dealers, Millmen, Draftsmen, and Architects

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