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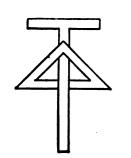
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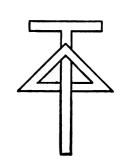
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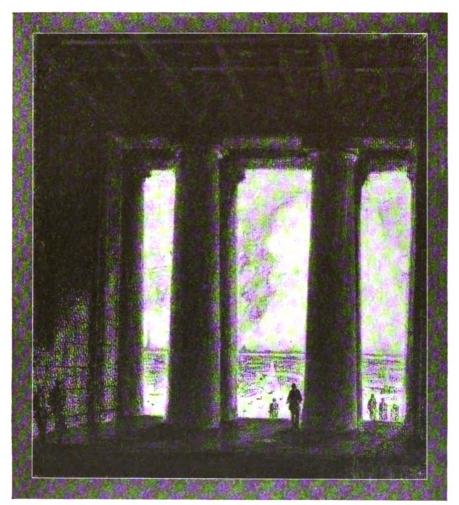
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PENCIL



A Journal for the Drafting Room



Crayon Drawing by Hugh Ferriss. View Looking Outward from Portico of Proposed George Washington Masonic National Memorial, Alexandria, Va. Helmle & Corbett, Architects.

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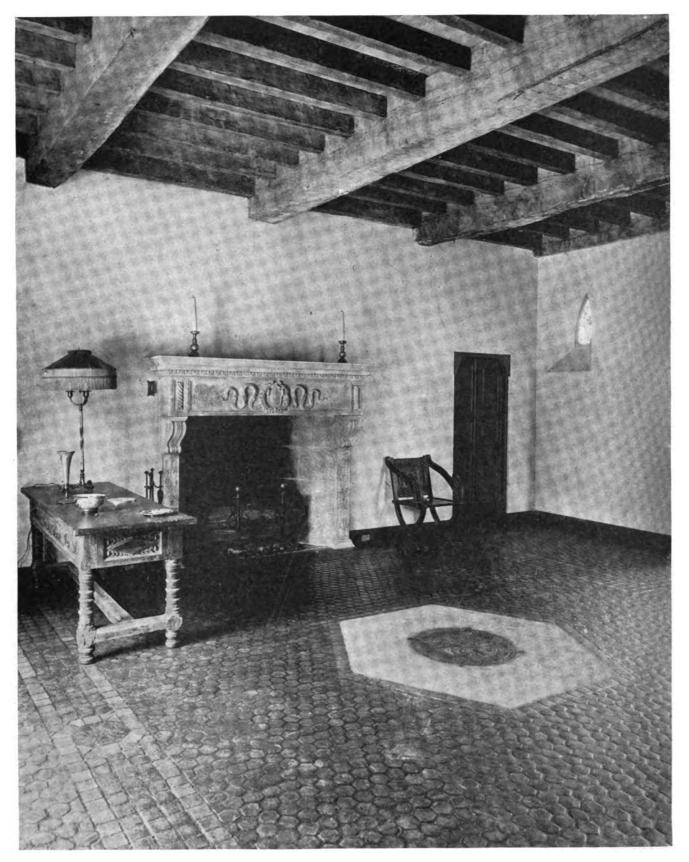
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PENCIL POINTS



Hall in House for F. S. McIlhenny, Esq., at Chestnut Hills, Pa. Mellor, Meigs & Howe, Architects. (See text on the opposite page.)

ARCHITECTURAL DETAIL PART XIII

BY JOHN VREDENBURGH VAN PELT

This is the thirteenth instalment of an article in which Mr. John Vredenburgh Van Pelt, formerly Professor in Charge of the College of Architecture. Cornell University, Architecte Diplomé par le Gouvernement Français, and author of "Essentials of Composition," will discuss the designing of good architectural detail and point out the means by which the ability to produce good detail can be developed. Reproductions of detail drawings from some of the best architectural offices will accompany this article and the publication of this series of drawings will be continued after this discussion of the subject has been completed—making a valuable feature of this journal indefinitely.

FRIEND asked me recently, "What is the difference between pottery and faience?"

He might as well have added enamelled terra cotta to the list. I did so in passing the question on to divers manufacturers and experts and finally to one of the professors at an important university that has a whole department devoted to the study of the art. After receiving a somewhat noncommittal answer from the last gentleman, I said, "Well, then, which term ought one to use for all of these beautiful objects?" "If you are talking to the trade," he answered, "you call it 'Ceramics,' but if you are addressing an amateur, you weigh heavily on 'Keramics'."

Truth to tell there is really no very good dividing

line between pottery and faience except that the former derives its name from pots and the latter seems to suggest plaques and tile.

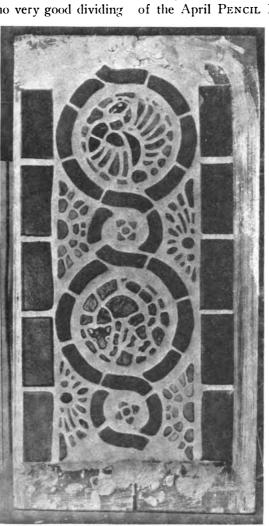
Differences in the clays are really matters of convenience or whim in manufacture. There are two general distinctions termed "white body" and "red Lody," but each plant uses its own mixture and many plants make both white and red tile, the white being usually somewhat softer than the red. The effect of the body on the appearance of the finished tile is only noticeable in the thinner and more transparent enamels or, of course, in the partially glazed tile.

As architects and decorators we have less to do with pottery per se, although urns and vases may play an important part in a composition and unquestionably do in furnishing. The hand painting of this more intimate work may run from miniature to the broadest kind of free design. In pottery, faience or terra cotta, the modelled body is so often associated with the colored design that it seems hardly worth while, in a curtailed review, to try to study it separately. Perhaps no other comment is needed than the reminder that a background should be less brilliant in color and perhaps darker in value than a motif. The Della Robbias reserved their bright yellows or whites for the subjects of their plaques. Many of the old Persian tiles were painted on a flat surface, but examination of the illustration of the faience decoration Medresse-I-Chan, at Shiraz, Plate XVIII of this issue, and of the exterior of a portion of the Mosque at Safi at Ardebil, Plate XIX, will reveal intricate examples of both painted and modelled patterns on the same individual tile. The detail of the Blue Mosque shown on Plate XIV of the April Pencil Points was tile mosaic.

There is a certain quality of broad decorative modern vase painting made at some of the English pottery works that would be most appropriate for wall tile decoration. It seems a pity that it is not imitated by our American tile manufacturers. Perhaps one objection may be that painted designs are not so readily fired at high temperatures and are, therefore, not as good for exterior work. But exterior work has to carry to a distance and is usually large enough in scale to be made up of small tile, a variety of mosaic. At any rate. the different colors may be separated by incisions or little ditches to keep them from flowing into each other while molten.

This firing of tile is perhaps the best distinction between pottery, faience and enamelled terra cotta. Decorated china, handpainted plates, etc., are often painted on the underlying white glaze and fired at low temperature in a small decorator's oven.

The next group, pottery and faience, are fired in kilns at a higher temperature, the body first, usua-



Contrasting Textures Obtained by Setting Tile in a Background of Cement.

PENCIL POINTS

ally, the enamel separately afterward. They are enclosed in a coverless terra cotta box called a saggar, each successive box forming the lid of the one below it in the kiln. Where the tile, which have been moulded or cut out like cookies and dried out, are not to be enamelled, the saggars have small openings cut down an inch or less into the sides to allow the gases of the kiln to enter and produce the beautiful accidental fire flashings that are so much prized for certain work.

Terra cotta is burned in kilns with double walls so that the inside of the kiln is really a big saggar. It is fired at a still higher temperature. 2250 degrees, as structural strength is needed.

Different layers of slip or enamel are usually put upon the dried clay and all fired with the body in one operation. For enamelled terra cotta a material or slip that will close the pores is sprayed on and then one or two successive glazing materials are applied, one perhaps a flux and the other the real enamel color. All enamel contains a mixture called the "Base" which is the element that holds the color and forms the adhesive glaze. It must be of such a nature that it will unite with the body, else it will craze and perhaps crack off. The other distinctive parts of the enamel are the mineral that gives the color and a flux. Of course in many enamels the distinctive color may be a result of the influence of the color mineral on a particular base, and then the base has to be varied. For certain effects a tile is fired at a high temperature. Then a second glaze is painted upon certain portions and it is refired at a lower temperature that does not affect the first color. This may even be repeated a third time at a still lower temperature.

A more usual process in blending colors is to place a layer of one color on the tile and when this is dry, dip it in another color or paint, or dab the other color on pre-determined parts. When the enamels melt they mix together and produce very beautiful, more or less accidental, effects. If the heat is sufficient, they boil and bubble up together and when they have cooled there may result points where the under color has taken precedence of the upper. Usually the upper color predominates and the under color softens or tones it. Furthermore, some colors in drying will crackle or draw apart and may introduce an interesting texture contrast. See the panels on this page.

The designer of colored faience or terra cotta decoration must bear in mind that accidental colors are the rule. Even the intensity of a plain color is more or less uncertain. Of course before it is fired, no color gives any suggestion of the final appearance. In one factory that I visited lately, all the enamels were made up with a red lead flux, and the tiles, set out to dry before firing, had a thick coating on the top, no more beautiful than a piece of structural iron just come from the shop.

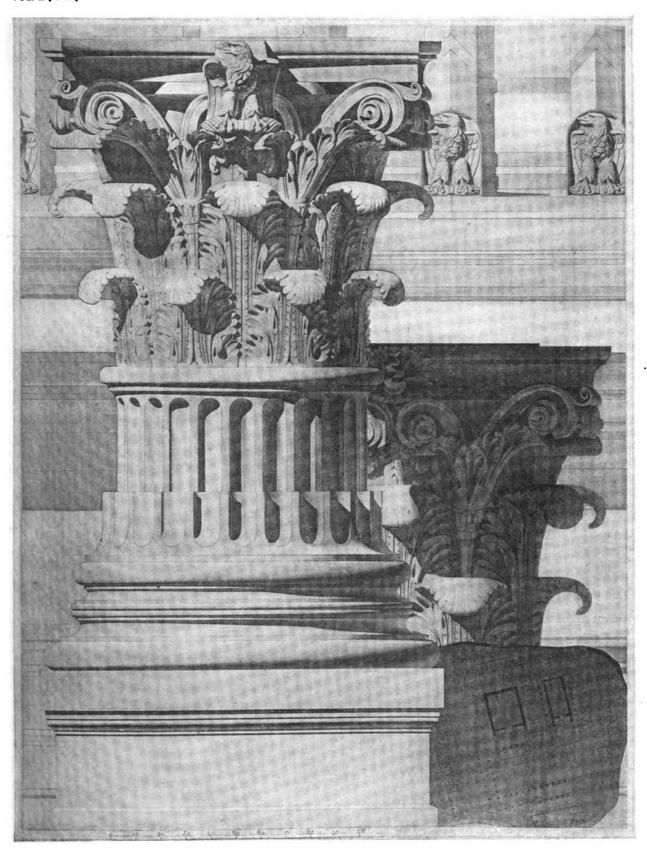
Past experience in the use of colored faience on the exteriors of buildings makes me feel that small tiles, forming a mosaic, are safer than large tile of a single color, even though the decoration is to be seen at a great distance. To illustrate: If a blue band, four inches wide, is required, it would be better to build it up of smaller triangular tile of slightly varying shades of blue than to set in four inch by four inch tile side by side, this despite variation of shade on each of the four inch tile.

I realize the process can be carried to excess and at times one may feel the need of a space filled by a simple, more even color, but the usual fault is in the direction of too great smoothness and too little (Continued on page 37)



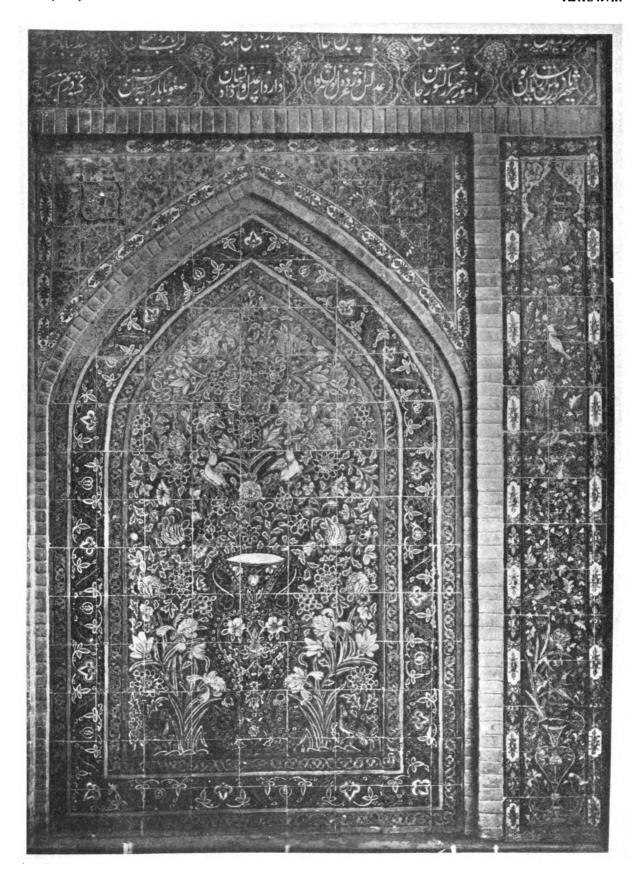
Tiles That Show an Interesting Crackle Texture.

VOL. III, No. 5



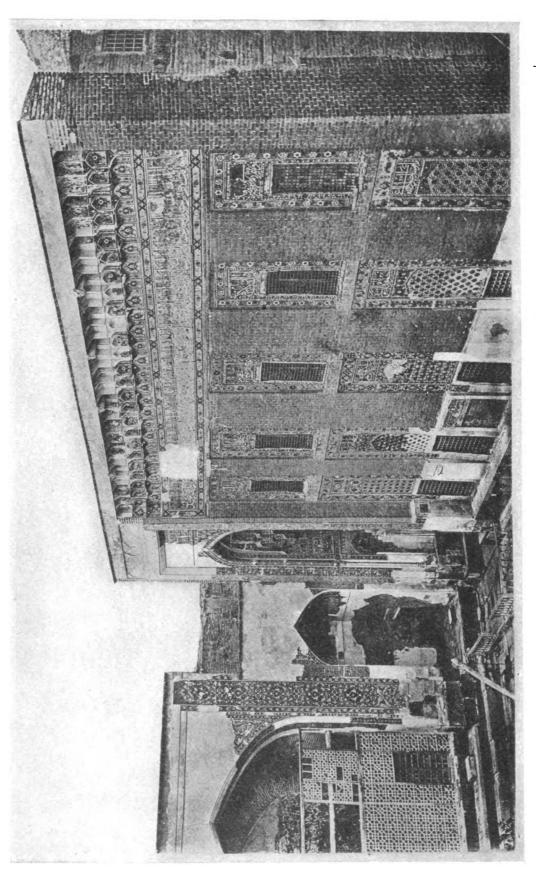
DETAIL OF PORTICO OF OCTAVIUS, ROME. FROM D'ESPOUY'S "FRAGMENTS D'ARCHITECTURE ANTIQUE"

The details of the portico of Octavius at Rome, reproduced on the other side of this sheet from a restoration by E. Paulin, are among the most virile of the many, well-chosen details of Roman architecture included by H. D'Espouy in his "Fragments d'Architecture Antique." This sheet is also an example of masterly rendering.



FAIENCE DETAIL, MEDRESSE-I-CHAN AT SHIRAZ. FROM SARRE'S "DENKMAELER PERSISCHER BAUKUNST."

The detail of faience decoration from the main entrance of the Medresse-i-chan at Shiraz shown in the plate reproduced on the opposite side of this sheet is typical of the finer faience work of Persia. The skill of the designer in making a well distributed pattern of forms that are cenventionalized, with an appreciation of the character of the material, and made to express the spirit of the people and the times while conveying the essential characteristics of the natural objects from which these ornamental forms were derived, commands admiration and affords a wealth of suggestions to designers in modern faience.



PORTION OF THE MOSQUE OF SAFI AT ARDEBIL. FROM SARRE'S "DENKMAEIER PERSISCHER BAUKUNST."

The facade of the prayer room of the Mosque of Safi at Ardebil shown in the plate reproduced on the opposite side of this sheet is a most interesting example of the combination of faience with brick work, the former used as an enrichment, for which the simple brick surface provides an excellent foil.

PENCIL POINTS

ARCHITECTURAL DETAIL, PART XIII.

(Continued from page 12)

ARCHITECTURAL DETAIL, PART XIII.

(Continued from page 12)

color vibration. Especially is this true of enamelled terra cotta where the individual pieces are larger than in the faince.

faince faince or terra cotta body may contribute greatly to the vibrant quality of the finished enamel. A firm of faince manufacturers, unfortunately no longer numbered among the producers of this beautiful material, had recourse to a very uneven hand the enamel was thin and transparent such dimpling permitted the color to puddle and a difference in value ensued. This went even further in their multiple glazes (one color over another, fired simultaneously). Morrentited the color to puddle and a difference in value ensued. This was an enhanced the effect. Too little work like it is done now-a-days; possibly because the archital; and do not demand it.

There is a marked difference between high-glaze, semfloss, and matt enamel, just as there is between the color effect of polished and honed marphe. I have not expected the public of the materials and do not demand it.

There is a marked difference between high-glaze, semfloss, and matt enamel, just as there is between the color effect of polished and honed marphe. I have not expected to published and honed marphe. I have not expected to published and honed marphe. I have not expected to published and honed marphe. I have not expected to published and honed marphe. I have not expected to published and honed marphe. I have not expected to published and honed marphe. I have not expected to be published to be a successful contrast might be obtained by using a hand finished, uneven body with high glaze and more brilliant color for the motif of a design and surface texture of this eth ackgrounds. Contrast and surface texture of this eth ackgrounds. Contrast and surface texture of this eth ackgrounds. Contrast and surface texture of the surface texture o

tile in a dead black joint. If the tile are waxed or olled glazed tile should never be either waxed or olled as a film forms on them and collects dirt), the black takes on a luster and may also become too prominent. Therefore some tile men advise a dark grey joint and others the natural color of a cement joint, which, after repeated oilings becomes almost black and has an old antique look that is quite pleasing.

The concrete under-bed of floors should be made of cement one part, sand three parts, and hard boiler cinders or small stone six parts, set down so the surface of the tile when bedded will finish flush with a surrounding floor. Spread a thin layer one-sixteenth inch thick of neat dry cement on this under surface just before bedding the tile. For wall tile, the thin neat cement can be brushed on as a sort of cream. It must not be allowed to stand. To bed floor tile wet them, set a section and on it lay a board, tapping it down to the right level. The bed is usually one-half inch thick when finished. Bed the tile in cement mortar one to two, or one to two and one-half, and if the joints are to be white or if the tile are enamelled or oiled, a floor may be grouted. An excellent way to clean a newly laid floor is with wet excelsior, waiting until the joints are sufficiently set up not to come out, but not long enough to allow the cement to set into the face of the tile. Over night may be about right, but cold will extend the period considerably.

Another method is to rub the tile with damp sawdust and wads of burlaps, but one must be careful the sawdust does not stick in the joints. After cleaning unglazed tile with the excelsior or sawdust, if cement continues to stick, go over it with muriatic acid and water, one to ten or one to fifteen parts. Obtain a good sharp, coarse grained sawdust and never use chestnut as it stains the floor. The mortar for joints should be not fatter than one part of cement to two parts of sand, else it is likely to chip, and not leaner than one to two and a half parts. Some aut

water added afterward. For that samples must be first made and dried and the proportions noted. Manganese is less dirty than lamp black.

If the tile have not been oiled before pointing, wait a month before oiling, to allow any efflorescence to come to the surface. Then scrub with muriatic acid and water, one to six, and wash this off with three rinsings of clean water, wiping up between rinsings. Wait a day to see if the tile remain clear and then if no efflorescence appears, wash over with clear water and mop up so the surface will be quite dry, but the tile damp below. Immediately put on pure raw linseed oil and turpentine in equal parts and soak for twenty minutes. Take burlap or rags and rub absolutely dry. Repeat the oil application every three months for a year and then once a year. In place of oil, beeswax dissolved in turpentine may be used, or prepared floor wax. Good results have been obtained by using a prepared coment floor filler and then waxing. The last method gives a high gloss.

Another means of applying the later oilings is to dampen sawdust and fill it with raw linseed oil. This can be swept over the floor, some authorities say, at intervals of a month. Unglazed wall tile may be oiled or waxed with a cloth. Waxed tile should be well polished with a brush and woolen cloth, as are waxed oak floors.

ARCHITECTURAL MODELS OF CARDBOARD.

(Continued from page 32)

a replica of the Masonic lodge room at Alexandria in which George Washington presided as master. Full data concerning this room have been preserved and the reproduction will be faithful in every particular. The room will be furnished with old pleces and it will contain original records treasured by the lodge in Alexandria.

contain original records treasured by the lodge in Alexandria.

The model of the memorial itself is so constructed that the tower portion can be lifted off in three sections. Other models for this portion of the memorial were carefully made and tried out and the design shown in the illustration on the lower part of page 28 finally adopted. This view shows only a part of the grounds represented in the model and the painted landscape background. In the next issue I shall go more deeply into the process of making models of this kind.