ARCHITECT



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FDMA FLD

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BIA

every issue does not necessarily contain all these contents, but they are the regular features which continually recur

YEWS COMMENT and

Diary Vews stragal's Notes and Topics etters ocieties and Institutions

SECTION TECHNICAL

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Architectural Appointments Wanted Vacant and

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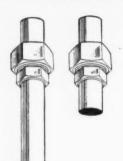
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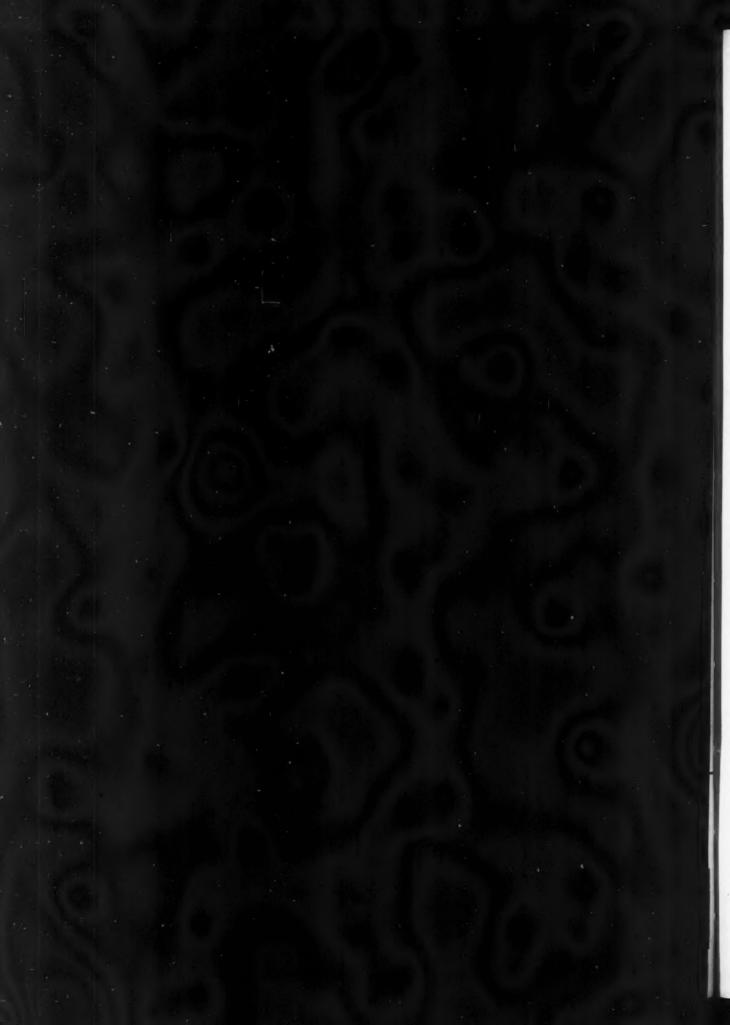
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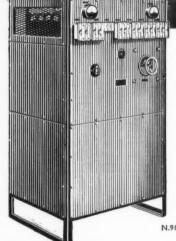




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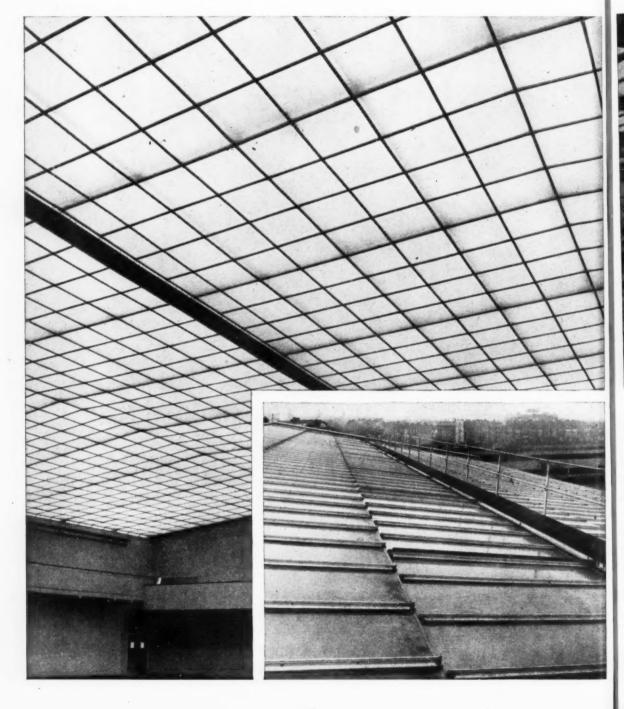
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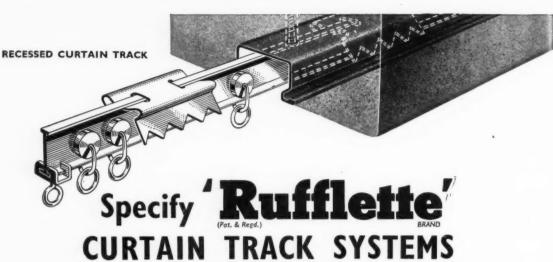


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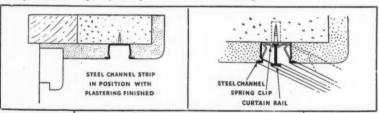


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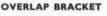
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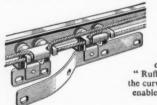
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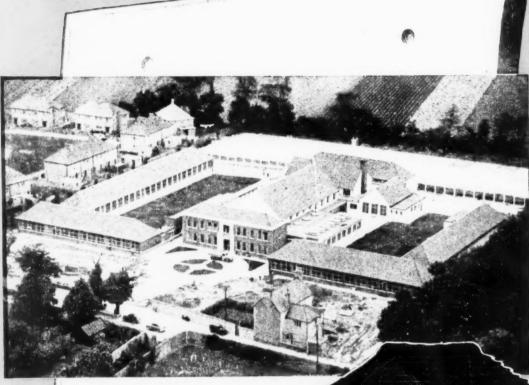
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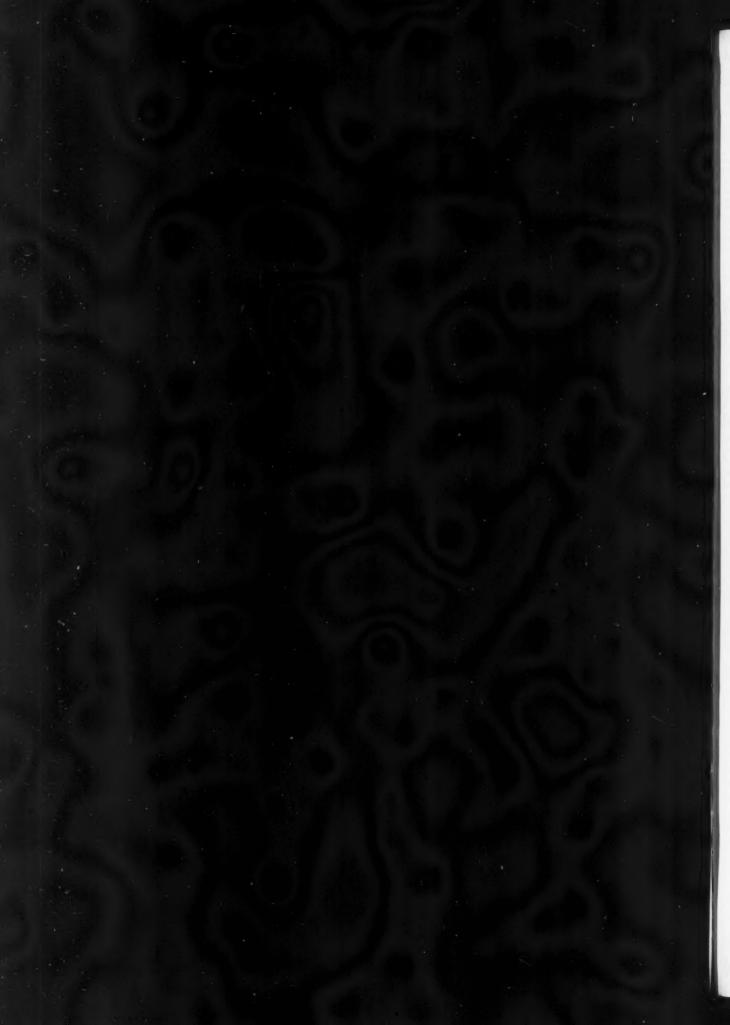
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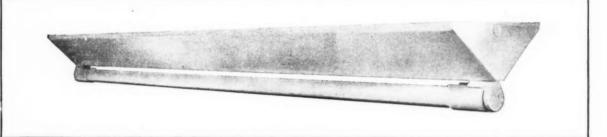
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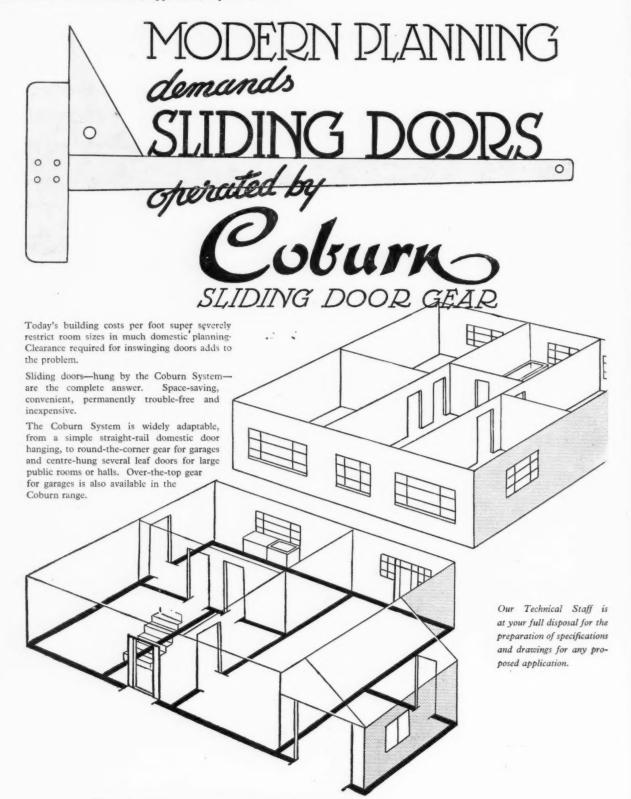
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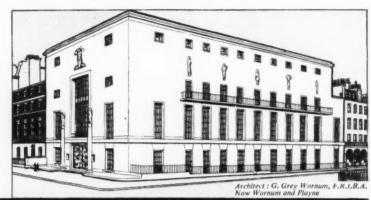
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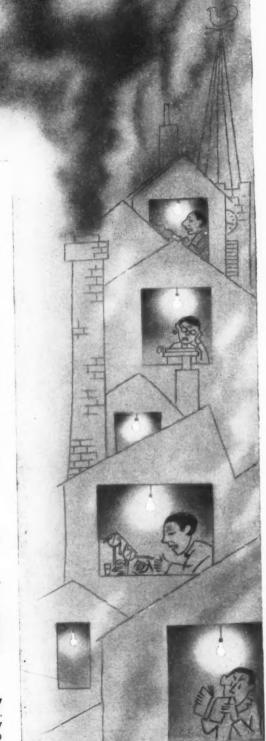
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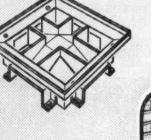
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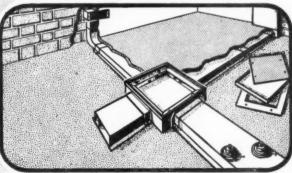
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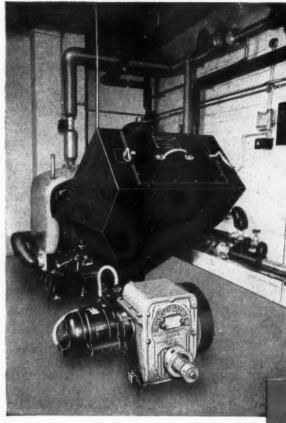
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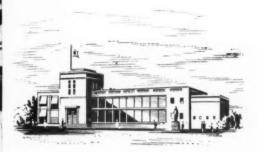
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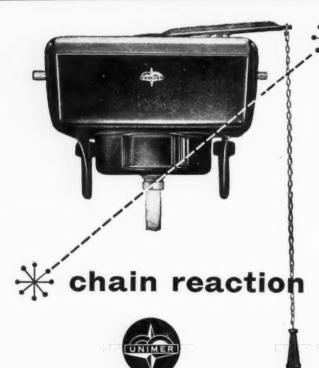
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5"	2'-10" - 4 3±	40 lb	Screed on 3" Wood Wool Slab	Case 3	-	_	-	13′ 9″	13′ 0″	12' 3"	-	-
5"	5. 2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	42 lb		Case 4	-	-	-	-	-	13'0"	-	-
7"	2'-0' T	35 lb	x 7	Case 1	20′ 6″	19' 6"	18' 8"	17′ 9″	16′ 5″	15′ 3″	13′ 3″	11'11"
7"	7	36 lb.	do.	Case 2	23′8″	22' 5"	21′8″	20′ 5″	18′11″	17′ 8″	15′ 4″	13′9″
7"	2'.6	40 lb.	do	Case 3	25' 5"	24′ 1″	23′ 1″	22' 1"	20′ 6″	19 2"	16′ 9″	15′0″
7"	7-0	42 lb.	do.	Case 4	-	26′ 9′	25′ 7″	24' 6"	22′ 9″	21′4″	18' 8"	16' 9"
7"	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 lb	do	Case 5	-	-	-	-	-	-	25′ 5″	23′ 0″
9"	17-8" I	47 lb	X 9	Case 1	30′ 5″	28′10°	27′10°	26′ 6″	24' 9"	23′ 2″	20′ 4″	18′4"
9"		53 lb.	do.	Case 2	35′ 4″	33′ 8″	32' 4"	31′0″	29' 1"	27′ 3″	24′ 5″	21′8′
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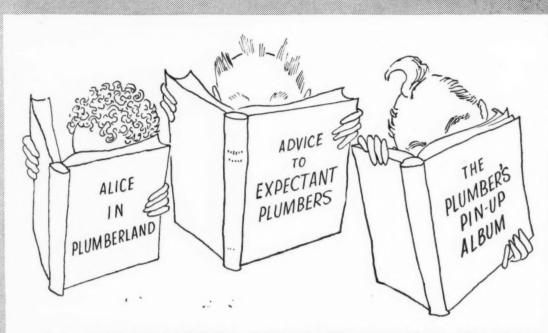
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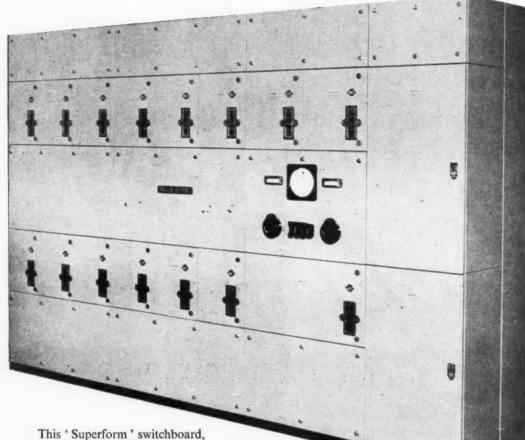
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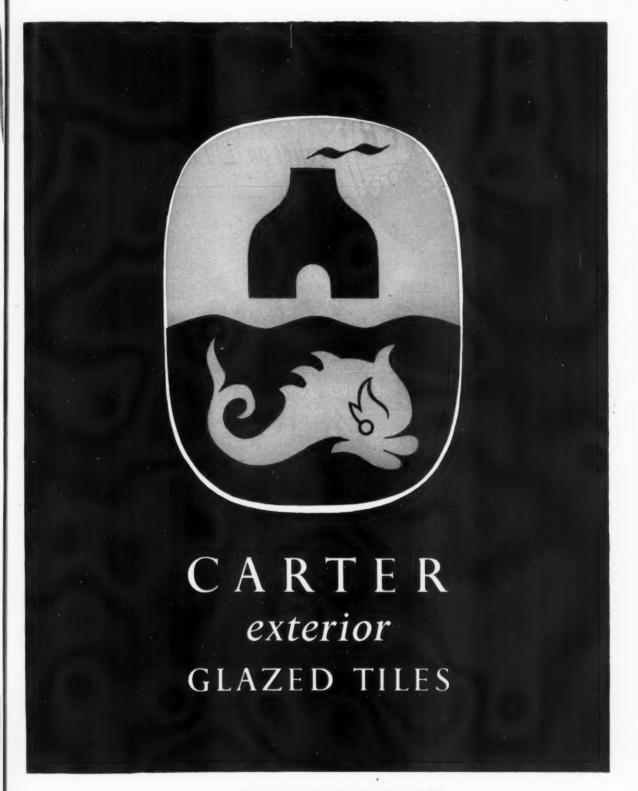
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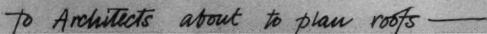
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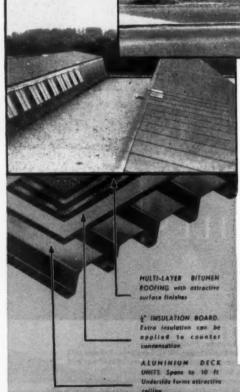


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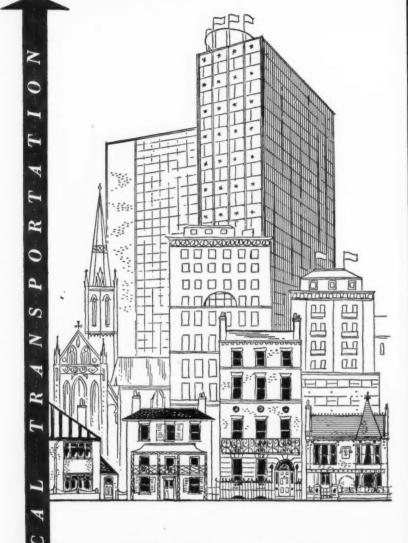
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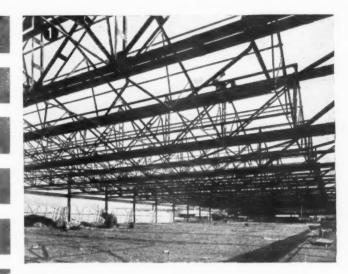
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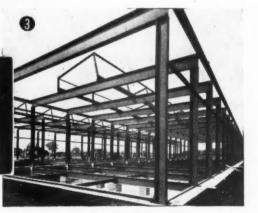
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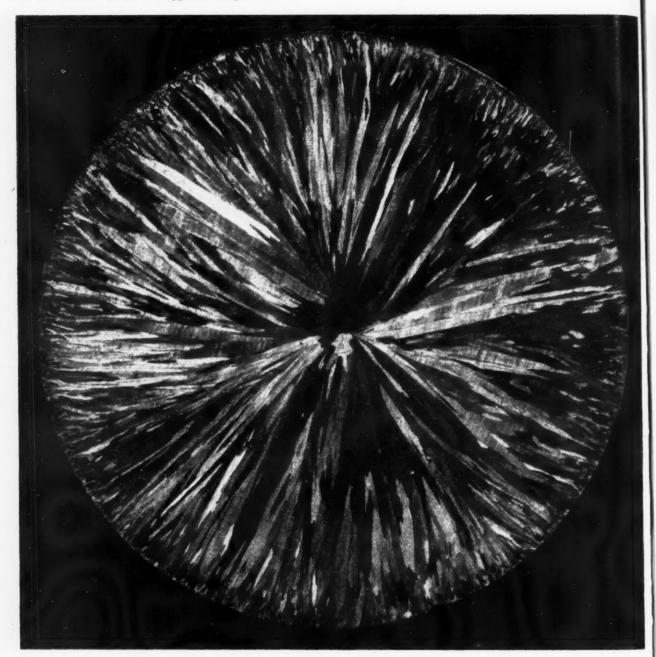
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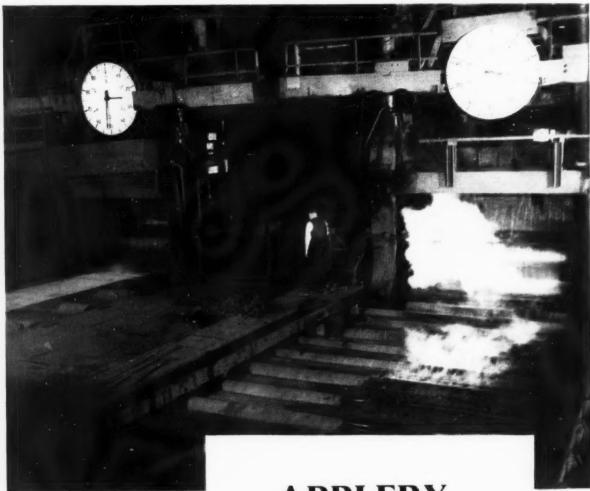
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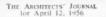
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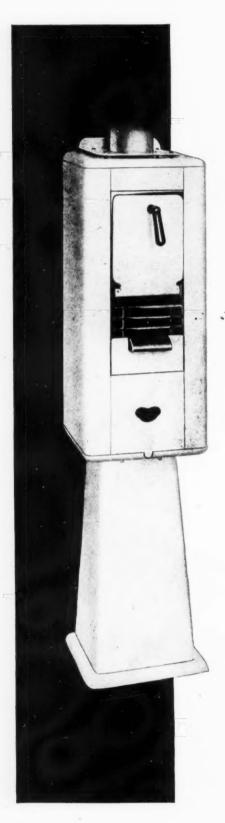
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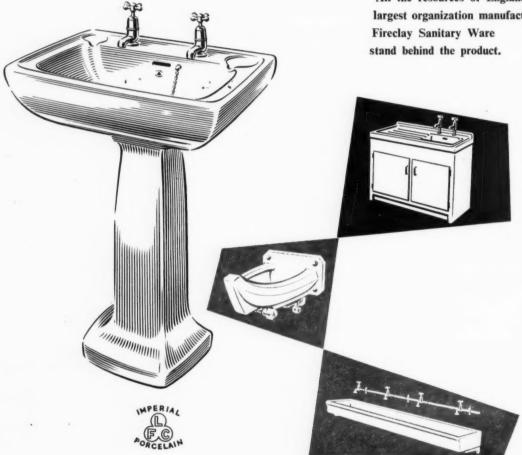
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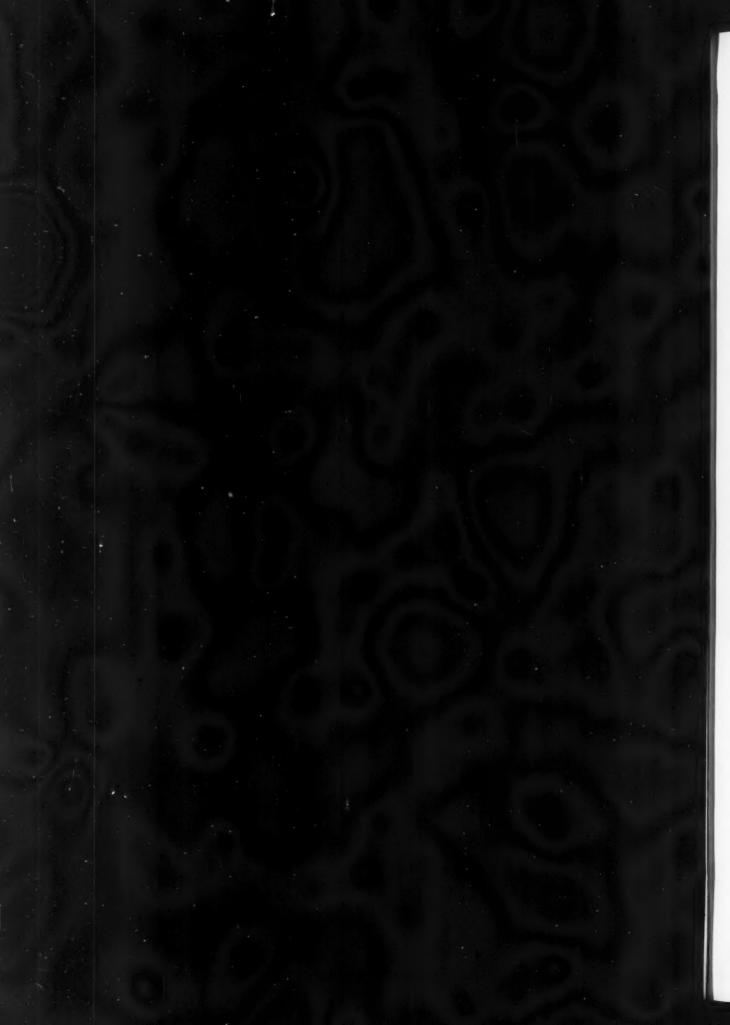
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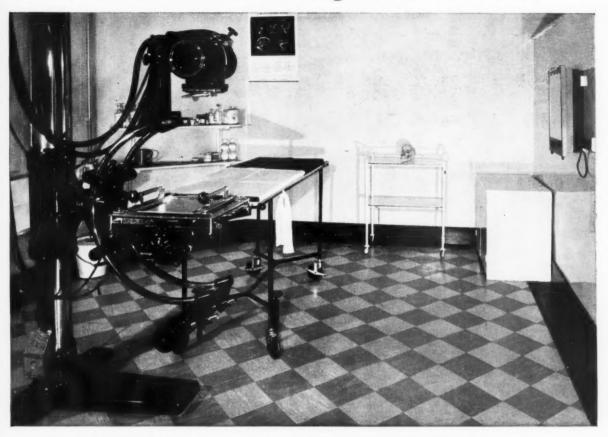








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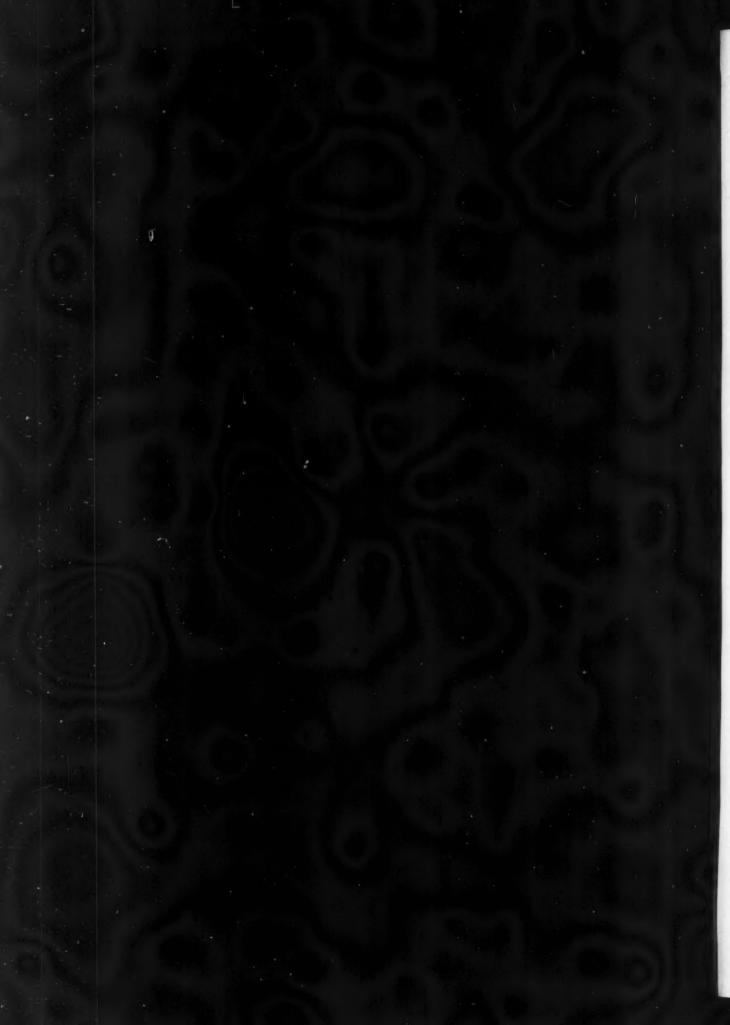
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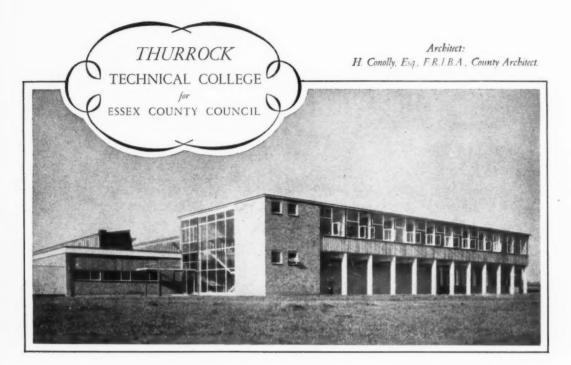
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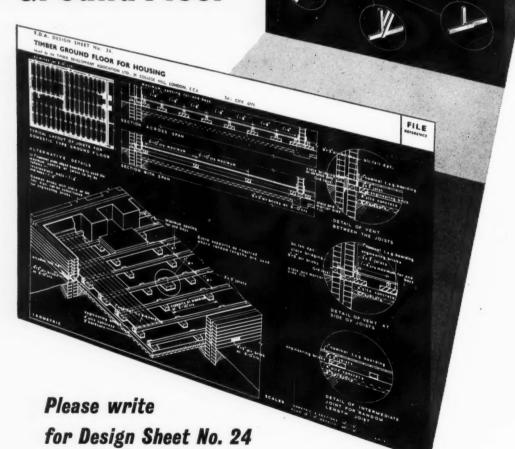
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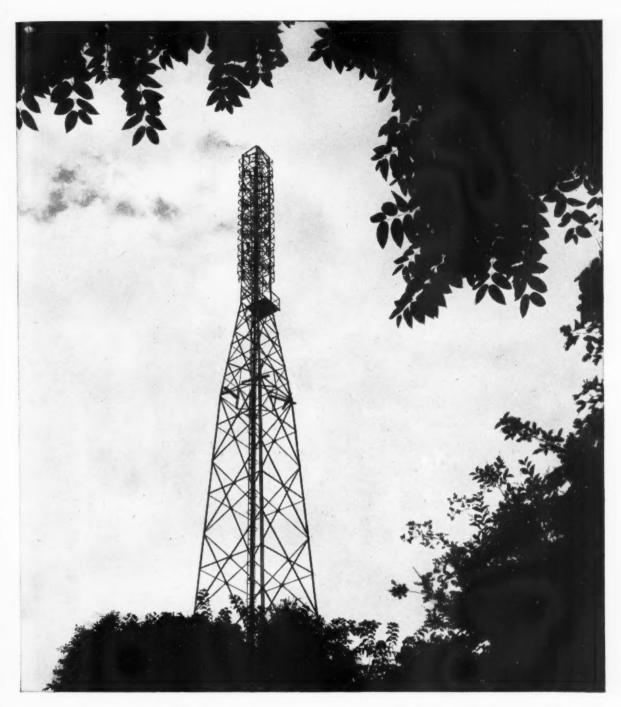
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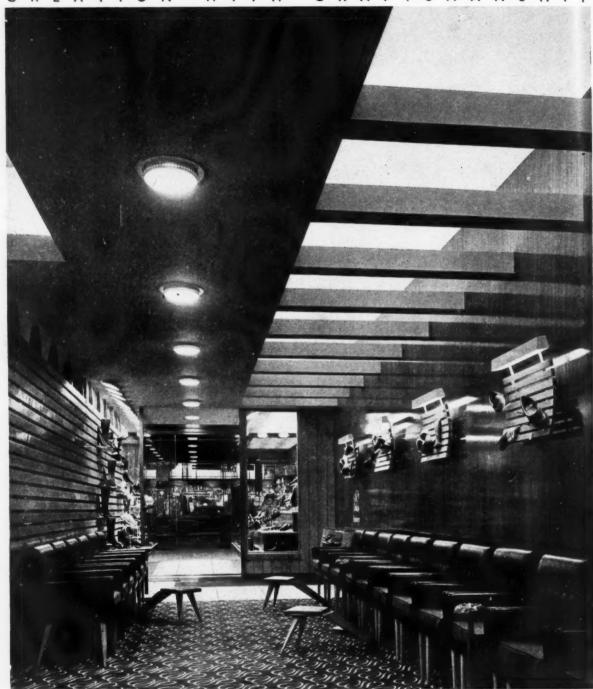
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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

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THE EXTREMISHNESS OF ENGLISH ART Now that it is available in book form, Dr. Pevsner's "Reith Lectures" disquisition on The Englishness of English Art* will receive—one hopes—the reflective and considered treatment that it failed to receive at the time of its serial delivery on the Home Service. It was pleasant to see distinguished contemporaries caught with their editorial hair down, and one of our most determinedly "contemporary" contemporaries announcing that what we wanted were "more squares, more vistas" for all the world as if it were Prof. Richardson. But these partial and partisan objections, these mean-minded hagglings over Gothic and Gothick, dates and reputations, were not the kind of treatment that the main Pevsnerian thesis deserved.

Reading the book one realizes that the thesis deals with the several different Englishnesses of English art, and that the evocation of the anti-geometrical tradition of English planning which stuck in so many Beaux Arts gullets, had been preceded by an appraisal of the ultra-geometrical tradition of so much English building. It is Dr. Pevsner's "polarities" that stick out, the extremes which a middleminded nation-like its temperate climate-is capable of embracing. If, as ASTRAGAL secretly suspects, Dr. Pevsner has proved that we are a nation of extremists, then he has indeed said something new that needed saying.

RIBA DINNER

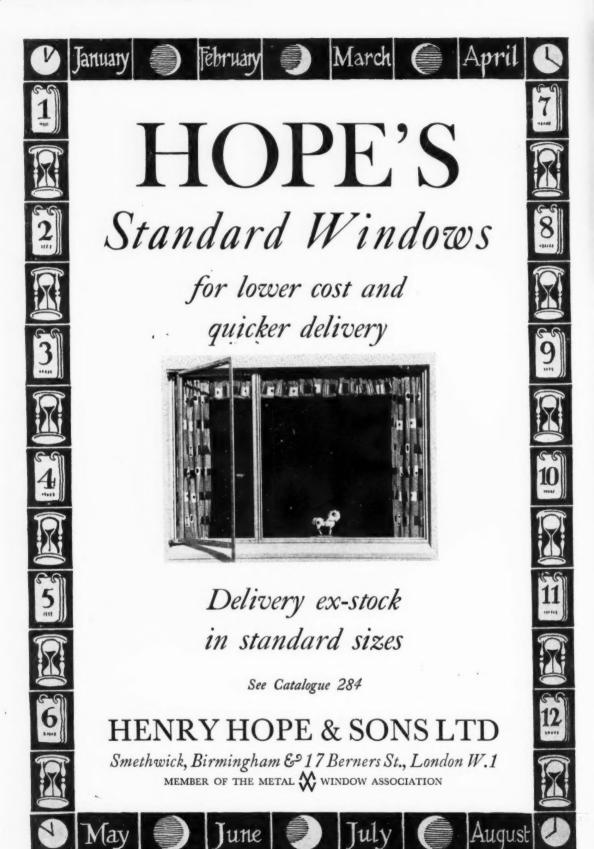
The RIBA's fourth post-war dinner, held at the Guildhall, was a thoroughly enjoyable occasion. If the speeches were not quite up to the standard of the last dinner (notably those of Sir Hugh Casson and Sir Howard Robertson), the setting of the Guildhall, despite an awkward entrance and Sir Giles Gilbert Scott's centre light fittings, was a pleasant, even impressive, change from the normal hotel atmosphere. A few lamented the lack of a bar with which to fortify themselves during the period of the reception, but there was an impressive array of appalling, immensely-detailed paintings of past Royal occasions in the ante-room with which to while away the time (a tip for students of historic costume and others who may have wondered, with ASTRAGAL, where such artistic tours de force of the Victorian and later reigns may have got to).

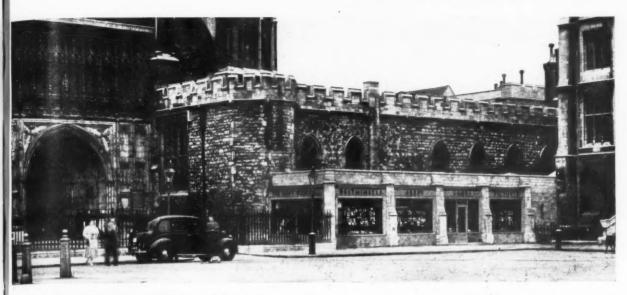
ASTRAGAL'S favourite speech on this occasion was that by Basil Spence. This may have been due in part to the fact that it was the only one he heard clearly. Spence, as you will have read, took the opportunity to support publicly Holford's proposals for St. Pauls, when he adroitly proposed the health of the Lord Mayor and the City of London, and to plead also for "courage, imagination, sensitivity, and invention, all British characteristics which have been expressed in the past by a great line of buildings. . . ." Alderman Ackroyd, the Lord Mayor, refused to be drawn, in reply, save for the doubtful hope expressed that the City Corporation would see "that the dignity and strength of a great commercial city will be upheld." (ASTRAGAL is naturally nervous of the word dignity when applied to building.)

President C. H. Aslin, replying to the toast to the RIBA, also praised Holford's plan as bold and imaginative. He went on to point out à propos the criticisms expressed by the PRA, Professor Richardson, that he did not speak for architects or even for the RA itself, which is nice frank speaking.

PRAISE FOR SPENCE

C. H. Aslin also found time to praise Spence's Coventry Cathedral design in his Guildhall speech. Praise from one's confrères is satisfying, so also is praise in the popular Press. Gilbert Harding, writing in *Illustrated* recently, deplores criticism of Spence's design on the grounds of it being too modern, and very reasonably expresses contempt for "buildings in fancy dress." Unfortunately, he seems to carefully avoid saying whether he likes Spence's cathedral design, although the general tone





Keeping in Keeping (1). See note "Addition or Subtraction"

of the article seems to imply approval. When asked recently by a colleague his views on the cathedral he replied "The Church of England has got what it deserves." And that doesn't help much either.

BC LUNCH

The Building Centre's annual lunch was, as usual, an all-too-short occasion, with the pick of the building industry present, and nearly every face familiar. The BC's annual report for '55 shows that enquiries are now running at over 100,000 a year. This is about four times the enquiries received at BRS, so there can be little doubt that the BC provides a most important service both to the public and the industry.

ADDITION OR SUBTRACTION?

ASTRAGAL was surprised and dismayed to see the new bookshop in front of the Jerusalem chamber between the Wren towers of Westminster Abbey and the entrance to Dean's Yard. This shop (photograph above), which is intended for the sale of postcards and guides of the Abbey, has been incorporated in the existing one-storey annex. There can be no question that the solution is neat, harmless and un-

keeping in Keeping (2). "If St. Paul's precinct were to be strictly classical," wrote John Summerson in the New Statesman for March 31, "it would be dead from the start." But if it were "loosely classical," he continued, it would be relegated to "the same detestable category as those buildings which Mussolini's architects so unkindly placed at the entry to Berninis piazza." On the right is a reminder of this depressing loosely classical" street.

assuming, and that it fits into the general *mise en scène*. But it is also negative and contributes nothing to a corner of the Abbey precinct which would lend itself admirably to a little townscaping. A number of possibilities come to mind. Why not pull down the annex and give the extra space to the piazza and erect a free-standing, well-designed, demountable kiosk? Or what is wrong with a wheeled trolley in the Abbey itself?

This is a good example of the danger of good architectural manners. The result of such polite additions is often the confusion and smudging of the character of the major building. The worst example of this sort of thing is, of course, to be found at the Distillers Company's premises in St. James's

Square, where the charming three-bay Adam house has been entirely lost within scholarly and careful additions.

FEWER HOMES OFF THE PEG

There was a time when the *Daily Mail's* annual book of houses showed no more than the exhibition jobs, but over the years more and more space has been given to architect-designed houses in various parts of the country, and in this year's effort* the proportion is nineteen to the exhibition's six.

Not that all the architects' houses are all that good, but they make the spec, work look pretty grim. Looking at the spec plans one can only assume that the Housing Manual has never been heard of by the designers. There are

 Daily Mail. Book of House plans 1956. (Daily Mail Publications 2s. 6d.)



Some System Wanted

The clutter shown above, arising from a half-carried out desire to keep back numbers of the JOURNAL, is no exaggeration of what happens in countless offices within a surprisingly short space of time—a mere two or three years suffices. We have seen rooms virtually unusable, due to the stacks of JOURNALS, and other periodicals, which the architect has felt compelled to keep. The answer to the ensuing disorder is, for the majority, some form of system which helps the architect to reduce the bulk of what he has to keep and a simple method of filing. From next week the JOURNAL will be adopting a format which should assist the architect in this respect. The proposals are described in this week's leading article, opposite page, and in the article on pages 336-337 on pages 336-337.

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cavity walls, admittedly, though their presence is more likely to be due to bye-laws than anything else, but four of the six exhibition houses have the chimneys on external walls and other amateurish faults. Altogether a very good argument for not buying houses off the peg, if only the public knew how to read a plan.

THE SPEC. MEN CATCH UP

ASTRAGAL had his doubts when the American magazine, Architectural Forum, split itself into two-Forum, the magazine on building, and House and Home. The reason for the split was an understandably commercial one the publishers wanted to appeal to the enormous speculative housing industry. In spite of his original doubts, ASTRAGAL finds himself more and more impressed by the consistently high standard of House and Home. It occasionally has top-grade architectdesigned individual houses, but for the most part it is concerned with the American speculative housing market in all its aspects, and one has to remember that most housing in America is built by private enterprise. What is so impressive is that House and Home has not been satisfied to follow the trends; it has led them. It has consistently put forward enlightened policies and examples. And it has consistently stressed the architect's contribution to house building.

In an article on the Los Angeles market, in the February number, the magazine shows features which have become popular elements in Los Angeles builder-designed houses. For example, the patio has been popular since 1946, the open plan and glass walls since 1947, the low-pitched roof since 1950, and so on. Architects thought up all these features, usually a decade before they became popular.

What would happen to a journal appealing to the same market in this country? ASTRAGAL has a feeling that it would sink into a slough of mediocrity. Anyhow, builders here fail to recognize that in almost every major technical advance in house building, the architect by his very nature has been the first to put forward the idea, though it may not take a fully realisable form until the builder has worked over it.

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ASTRAGAL

POINTS FROM THIS ISSUE

ASTRAGAL reviews The Englishness	of	English	Art		page 331
The new easy-to-file AJ	0 0				page 336
New Brutalism defined at last					page 339
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designs					page 340
The L.C.C.'s Tidey Street scheme					page 350
The new rating procedure					page 355

The Editors

TEAR IT OUT OR TEAR IT UP

ARCHITECTS today, as never before, are swamped by paper—forms to fill, letters to answer, codes to study and, not least, periodicals to read. The architect is weighed down by the things he is supposed to have read all about and understood. Because this fact has been brought home to us we started our research fellowships, and now the first recipient of a fellowship, Michael Ventris, is studying some aspects of the problem. But we feel that there is one aspect which we can, and should, tackle ourselves because, if the architect suffers from having too much to read, we are one of the main causes. (We hasten to add that we would not have it otherwise, and as our steadily rising sales graph shows, neither, apparently, would the bulk of the profession.)

Every Journal consists, in the main, of part news, comment and gossip, of general, but probably ephemeral, interest to most; of part technical information of potential interest to all; and of part specialist articles and descriptions of buildings of interest mainly to specialist readers. From next week we propose to divide the Journal into roughly those three categories. At the front will be the comment and news, the stuff which the ruthless, paper-ridden architect will cheerfully throw away once he's read it. At the back will be the material to file, Information Sheets, Working Details (in greater number), a detailed study of a building with cost analysis, a technical article, and Information Centre. Sandwiched between will be the industry and other features of technical and general interest, so arranged that they can be filed if they are wanted.

For those who like to keep their JOURNALS whole, and unspoiled, there will be little noticeable change, save in the order of the articles, but for those many who wish to break up the JOURNAL for filing we hope the changes, which are described in detail overleaf, will be of some real assistance. In this way we can, we hope, contribute a little towards lessening the very real strain the would-be efficient architect bears today through having to be "well-informed."

The printing dispute has prevented the publication of two issues of the Journal. All subscriptions will therefore be extended for an additional two issues.

From next week, as announced on the preceding page, the JOURNAL will be revising its format as part of our never-ceasing endeavour to give the best possible service to our readers. The emphasis in the new

JOURNAL will be on providing material which can be more easily extracted, physically, and filed for The following article shows the future reference. method we are adopting.

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AI FORMAT FOR EASY FILING NEW

Enquiries made over the past year reveal that there is a great demand, by all sections of the profession, for a JOURNAL which is simpler to file. Today, when many architects have to ration their reading time it has become the task of the profession's newspapers to do their utmost to aid architects by presenting news, comment and technical information in a form easy to follow, easy to segregate by the individual into what he wants to keep and what to throw away, and finally, easy to file.

The filing of the contents of the Journal is a task which, if not undertaken at regular intervals, becomes quite a formidable task. In a year the reader receives about 2,000 editorial pages, of which about 1,000 are of special value if filed. These one thousand pages are devoted to technical articles, descriptions of buildings, Working Details, Information Sheets and so on. The remainder are mainly comments, by ASTRAGAL, leader-writers and correspondents, and news-items which are of interest, we hope, at the time of publication, but which never-or rarely-require filing for future reference.

each article separable

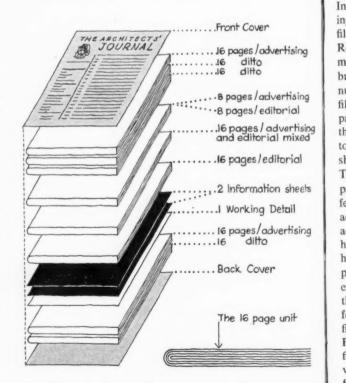
The JOURNAL, with Information Sheets, Working Details, and Information Centre, has for many years now endeavoured to satisfy this growing demand. It has become evident, in recent months, however, that we have not gone far enough. It is time that we took a further step to ensure that every item of technical importance can be readily filed. The snag all along which has prevented easy filing has been, of course, the article which has one page backing on to another article that is of equal importance to the reader. One way to avoid this, which is obviously only possible with long articles (otherwise it becomes hopelessly extravagant, or the reverse, in space) is to ensure that each article starts on a right-hand page and ends on a left-hand page. The other answer which, up to now, has not been practicable, is to use advertisements as makeweights. That is, to insert an advertisement page where necessary to ensure that each article is contained on an even number of pages.

That is the course which we are going to take from next week. We are going to arrange the JOURNAL in three sections. In the front will be the news, comments, and correspondence. At the end will be the articles and features which are of value to almost everyone, if filed. And in the centre, as an essentially feasible buffer, will be those articles-part news, part technical-which may be wanted by some readers for their files. It is in this third, central, section that the advertisements will mostly appear, but they will also be used in the last section to ensure that a technical article does not end on the back of the page on which an article illustrating a building commences.

A slight change is also being made to the position of the list of contractors and sub-contractors for the buildings illustrated. In future the list will appear at the end of the article describing the building. This has been done, again at the request of readers, in order that the reader can file the list, together with the article on the building, so that he can readily assess firms by the quality of their work or material shown in the article.

the composition of the Journal

Perhaps the best way of describing a typical Journal. with the contents as they will appear in the future, is by means of the expanded drawing, below. The drawing should also make clear, to those who have never dissected a JOURNAL, how it is built up, and therefore show the simplest method of breaking a JOURNAL down for filing. The basic and most economic unit with which the printer makes the JOURNAL is a sheet which is folded and cut to form sixteen pages. Occasionally a half unit of eight pages is used, and for special purposes, advertisements in colour or information sheets, units of only two or four pages are printed. Between the main units of sixteen pages, or in the central fold of the sheets are placed the special inserts: advertisements in colour, Information Sheets or Working Details. All these are then collated by hand, and fastened



A diagram showing a typical JOURNAL format of 16-page sheets of advertising, editorial pages, and special inserts.

out the staples with a knife, the JOURNAL will fall apart and can be separated back again into the basic units. The line drawing shows a typical future JOURNAL in the new format. At the beginning are three sixteen-page units or sheets—of advertisements. In reality they would be interleaved with advertisements in colour. Then comes a sheet of which the first eight and a half pages are advertisements, and the remaining seven and a half are editorial. These will consist of the frontispiece, the leading article, ASTRAGAL'S Notes and Topics, the correspondence columns and some news. This is the first section mentioned earlier—the section of topical interest which it is not important to file. Then follows a sheet consisting of nine editorial pages and seven advertisements. This is the flexible buffer section where, whatever the length of the articles and features, they can be saved for filing if they are of special interest. Here will be news, foreign buildings, illustrated technical features, and the start of the Technical Section, with Brian Grant's The Industry articles and Information Centre. The last named is arranged, of

with three wire staples. Over all is gummed the cover. If the reader tears off the back cover of an issue and prises

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Then follow the four regular features which are essential parts of the architect's library: the technical article; the full description of a building, with cost analysis; two Information Sheets and a Working Detail. The Working Detail is an extra item. As well as alternating two Information Sheets and two Working Details each week, an additional Working Detail will be published in the same week as the Information Sheets, making a total of seventy-eight Working Details a year. All these four features will be easy to file.

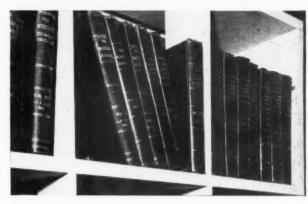
course, for cutting out, pasting up and filing, and in future

the same action can be taken with The Industry articles.

Readers will be familiar with the ease of handling Information Sheets and Working Details. The record of a building will be easy to file because it will be on an even number of pages and in the last sheet. On occasion it may fill the whole sixteen pages. In any event only two or four pages will have to be detached by slicing down the back of the sheet with a paper knife. These two or four pages, together with the last two or four pages of the previous sheet, will form the technical article.

Then follow two sheets of advertisements. The last two pages of the last sheet will contain another improved feature. The present enquiry form for building products advertised is being enlarged to contain the whole list of advertisers, so that a reader wanting further information has merely to tick the relevant advertisers' names, give his own name and address, tear out the page, fold it and post it to us. The emphasis so far has been on filing editorial pages, but of course the advantage of unpinning the JOURNAL is that advertisements which give useful information to architects are also more readily removed for filing—a point which advertisers will doubtless note.

Finally, a brief mention should be made of methods of filing. The illustrations, right, show three simple and obvious methods in frequent use: the box file, the suspended file, and the loose-leaf binder. These individually, or in combination, enable the reader to keep the information in the JOURNAL at his finger-tips.



The traditional method of keeping periodicals is in bound volumes. The efficiency of this as a reference system for the architect depends on an index. More flexible and more efficient systems are the use of box files, below, or the use of suspended files and special folders, as shown bottom. By using these systems the architect is able to keep articles according to his needs.







Richard Sheppard, F.R.I.B.A.
Chairman of RIBA's Ad Hoc Committee.

Eric de Mare, A.R.I.B.A.

Andor Gomme

L. G. D. Thompson, A.R.I.B.A.

Raymond K. Miller

Geoffrey Dunn, of Dunn's of Bromley

The Ad Hoc Committee Replies

SIR,-The exigencies imposed on the public by one trades union dispute have interrupted the discussions about the formation of another. You recently published two letters (issues of March 1 and April 5) both critical of the Interim Report of this Committee. As chairman I would like to be allowed to reply to them.

Each letter (over the signatures of a number of people in London and Coventry respectively) takes the same form. Each complains that our report does not go far enough and fast enough in its interim recommendations and fulminates against an apparent indifference to the resolution passed at the celebrated annual general

meeting last May. I was also present at that meeting, and I awas also present at that meeting, and a must remind the writers of these letters that all the speakers stressed the need to maintain unity in the profession. The immediate formation of a conventional union, sponsored by the RIBA, would automatically split the profession. If we are to maintain unity, a union must be conceived on a new basic. However, I convidence a biase. However, I consider our real objective is an increase in the remuneration of many salaried members, and it should be a substantial increase in cases where respon-

sibilities are not matched by reward. In order to achieve this end we already know there are several means open to us, of which a union is only one. Our problem is to find which of these, singly or in combination, will achieve our ends most quickly. The writers of these letters have apparently pre-judged the issue and decided upon one remedy.

My committee is investigating these conditions and hopes eventually to produce a further report. There are a number of questions to be answered bearing upon the questions of salaries in relation to responsibilities. When we have this information, it will be possible to decide on the course to be adopted. Clearly we shall only recom-mend the formation of a union if we con-sider the causes of discontent are such as can be effectively met by union action. In our interim report we recommended closer liaison between the RIBA and the existing organisations which represent salaried architects.

This investigation is bound to take time and must be precise and factual if it is to be effective. I do not myself think that we can carry out this part of our work in less than two years. This will seem a long time in view of the urgency of the situation, but I do not think it can be done in less, and answering unconstructive letters does not help.

Finally, this is a matter which arises out of and must be conducted through the RIBA. The Institute has a journal which reaches all its members rather than the section which can afford a subscription to the Architectural Press. Why then are these letters not directed to it?

RICHARD SHEPPARD.

London

Architecture In A Vacuum

SIR.-Mr. Pattrick (March 1) does well sin,—Mr. Pattrick (March 1) does well to praise Mr. Summerson's "brilliantly clear and simple English," for such writing rarely receives its due credit. Obscure and complicated writing arises from muddled thinking; the abuse of words continues to dangerously destructive as a result.

But why should writing on architecture necessarily be virtuous because it has "no political slant"? There is some muddled and dangerous thinking for you. Politics affect the visual environment fundamentally whatever architects for the december of the control of whatever architects try to do as architects and to discuss architectural development without reference to social-economics and therefore to politics is to discuss it in a meaningless vacuum. To pretend that archi-tects can avoid politics and still hope to improve the environment and prevent subtopian inflation is silly. Politics may stink but so does the environment. Hold your nose with delicate disdain if you must but don't in that case expect the stink to go away. One tidy window grid does not make a civilization.

ERIC DE MARE.

London.

Cathedral For Parlour Games

SIR,-The excisions made in my letter published in the JOURNAL for February 16 removed most of its point and made it seem, what I had not intended, a bad-tempered personal snarl at a design that I did not like. What I want to emphasize is the fundamentally secular approach, and the essential wrongness of such an approach to an ecclesiastical problem. Sir Edward Maufe's work is indeed unsatisfactory, but his failure may, in large measure, stem from the terms of reference according to which he was evidently working. For the attitude which demands of a cathedral that it should be worthy not so much of God as of a "great city" is the attitude that turns a church into a civic hall. If a city needs a church, then it needs it as a place in which to worship God, not as an annex to the coun hall. And a gathedral conscient town hall. And a cathedral conceived apparently as a home for municipal parlour games is a disservice both to the religion which it ought to enshrine and to the community, which, in building a church, claims to owe that religion allegiance.

Cambridge.

Are Competitions A Farce?

SIR,-I am appalled at the assessor's first award in the Enniskillen Competition (AJ: The winning design shows March 1).

about as little sympathy towards the town of Enniskillen as Oliver Cromwell had when he was last here. I, as a native of Northern Ireland, as a

young struggling architect just returned from qualifying in Great Britain, and as a competitor in the said competition, am con-tinually perturbed at the standard of architecture that exists here at the present time.
When such a competition of this kind arises, one expects to see a winning design worthy of the many ideas that were submitted and also a contemporary solution to the problem. I consider this winning design as a thoroughly mediocre piece of architecture in all respects, and not at all the result one should expect from an architectural competition.

The winning author's building belongs to any "Subtopian" town; it is not just designed for that particular site in Enniskillen as it should be, and it has no atmosphere or feeling in keeping with such a town as Enniskillen. For these reasons alone I deplore it as the selected design. It would be interesting to know if twelve cars could be crammed into the space pro-

vided in front of the building.

Does the author sincerely believe that by setting his symmetrical building back from the frontage line he successfully avoids duality with the existing symmetrical courthouse, which he has not included in his drawings, and which he must at least have seen in photographs!

These are only two of the many questions would like to put to the assessor and to the author of the first award.

L. G. D. THOMPSON.

N. Ireland.

Up The Schools

SIR,—Referring to your leading comment in the JOURNAL of January 26, concerning the need for professional responsibility as well as creative skill, it is time that the schools gave a lead to the profession, as they are badly in need of a more rational approach to design in the light of present day conditions. I call to mind a phrase from the introduction to a design programme which I had recently at a well-known school, I had recently at a well-known school, namely, that "the clients had in mind a building costing something in the region of £100,000" (it was a Civic building). This, at first sight, would seem a commendable and practical proviso to include in a students' programme, until the final schemes arrive, most of which at a guess would have cost three times as much. Such padding in a studio scheme would appear to be merely a Sop to Cerberus, a belated attempt to add realism, instead of frankly admitting that school schemes are one thing, and practice another.

The excuse put forward to justify lavishness in school schemes is that site, financial and bye-law restrictions, make good alibis for bad design, and so students are given considerable freedom. The absurdly irraconsiderable freedom. The absurdly irra-tional attitude to design can only cause harm at a time when the profession badly needs to gain public confidence in its ability to control building design and construction. RAYMOND K. MILLER.

London.

Putting The Lid On It

SIR,—Hardly a week has gone by lately that your publication has not found it fit to caption something:—" Another nail in to caption something:—"Another nail in So and So's coffin."

Let us get this straight, we undertakers screw lids down!

Trusting you are in the best of health. GEOFFREY DUNN.

Bromley.



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NEW BRUTALISM Defined At Last

When New Brutalism was discussed recently at the Institute of Contemporary Arts (writes a correspondent) the four speakers produced four definitions of it.

Toni del Renzio's definition, which alert listeners were able to rescue from such phrases as "the need to narrow down our fundamental meshales to a few possibility."

fundamental postulates to a few possibili-ties" and "pragmatic experiments with theories of culture in depth," was surprisingly simple: "Do as Corb. does, not as Corb. says.

The second speaker, D. F. Tomlin (a student) told the meeting, to which he had been dragged by the scruff of his neck," that New Brutalism was "a widening of the possible fields of mental action—an attempt to broaden the range of techniques now available to us."

now available to us."

Ronald Jenkins, an engineer, said "It is a movement in search of a meaning, and a meaning may come out of it."

John Summerson had the most original and most popular definition of New Brutalism, "I don't believe it exists," he said. He accused Peter Banham, who had written about it in the December issue of the Architectural Review, of "tickling-up" a new movement. "Once every thirty years," he said, "there is a big sneeze in architecture. A new movement is due, and Mr. Banham perfectly well knows it. If I were in his position I should do the same. If he is rewarded by the emergence of a new movewarded by the emergence of a new move-ment I shall be the first to congratulate

him."

Three of the speakers had something to say about the effects of New Brutalism. Even Mr. Summerson, who denied its existence, said "it can't do any harm, and it may do good." Mr. Tomlin said "it has made me and my fellow students think more about architecture, and I think it's done that for a lot of people." Mr. Jenkins was more concerned with the harm it was doing to its originators, the Smithsons. "They are good architects," he said (applause from Peter Banham). "I should like to see them doing some work and keeping pretty quiet about some work and keeping pretty quiet about it." He felt, however, that it was "a banner which might help young architects to exoress themselves." The chairman, Ove Arup, wisely refrained

from summing up.

MODULAR

What the Manufacturer Wants

On March 27 the Modular Society followed up W. E. Tatton-Brown's lecture on "What an architect wants from the Modular Society" (see AJ February 16, 1956) with a counterpart by Peter Gardiner, a Director of Gardiners of Bristol, entitled "What a manufacturer wants from the Modular Society." W. E. Tatton-Brown had called for the opening up of the closed systems (i.e. the establishment of interchangeability), the establishment of a code of iointing con-(i.e. the establishment of a code of jointing conventions similar to those current in traditional building and the training of a new race of "assembler-jointers" to handle them, and the acceptance of a form of contract which would ensure that the potential requires from specific programming from the contract that the potential requires from specific programming from the contract that the potential requires from specific programming from the contract that the potential requires from the contract that the potential contract the contract that the potential contract the contract that the potential contract the contract that the contract t savings from speedier erection were realized in fact and were equitably shared between

contractor and building-owner. contractor and building-owner.

Peter Gardiner's wants were of a more simple nature: he did not want the Society to do anything, he only wanted more builders and architects to join the Society so that they could learn how profitable Modular building was: for the architect, of course, profitable in drawing office time, for the builder profitable in money. Stating that the builder profitable in money. Stating that it was now difficult to get builders to quote for a modular building and attributing this to their fear that their profit would be limited to the share of building work carried out by their own men, he made the point that the real saving to the builder lay in the elimination of hold-ups, the consequent saving of building time and the quicker turnover of capital. As an instance he quoted a contract on which his own firm had been concerned which had been finished three months before schedule, and where the builder had made an additional profit of about £6,000 on a contract sum of £60,000. about £6,000 on a contract sum of £60,000. He pointed out, however, that this result could only come from real pre-contract p'anning, in which even fixing-time was exactly pre-determined. Taking up W. E. Tatton-Brown's call for "assembler-jointers" he said that he feared that the demarcation problem in the unions would make these difficult to come by but he suggested that there was a real need for "moderated that the there was a real need for "moderated that the there was a real need for "moderated that the there was a real need for "moderated that the there is not the third that the there is no the third that the there is no the third that the there is no the third that t make these difficult to come by but he sug-gested that there was a real need for "mod-ular building contractors" whose men would be versed in the techniques of dry construc-tion. On the question of "closed" and "open" systems, he argued thus: in the present phase of development the advantage of modular over traditional building lies in the greater speed of erection, rather than in intrinsic cheapness of components. This speed is best realized in "closed" systems, since the manufacturers of these systems are able to ensure the delivery of all compo-nents on time. The other kind of economy inherent in modular design (i.e. the cheapen-ing of components) can only be fully realized when the demand for modular comrealized when the demand for modular components is sufficiently great to enable manu-facturers to pass from batch- to mass-production. When this occurs it will be both feasible and desirable to pass from closed systems in which components are not generally interchangeable to a common "open" system in which they are.

LAW REPORT

Issue of Final Certificate: the Architects Liability

A recent court case caused a stir in legal A recent court case caused a stir in legal and building circles. The case concerned the issue of a final certificate by the architect in respect of a job in which there remained a number of minor defects. The Court of Appeal, by a majority of two to one, concluded in favour of the architect on the ground that the house was confessedly being built to a cut price and that the architect, in interpreting the contract, may take this fact into account in issuing his certificates. This is an interesting example of what lawyers call "the new equity": that

is, of the permissibility of taking all factors into account when interpreting even the wording of such documents as the RIBA Form of Contract. Here is a report of the court case:

A contract was drawn up in the ordinary RIBA form whereby the builder agreed to build a house for £1,910 (admitteday a low figure), the plaintiff in the action being nominated as the architect. He himself was a Fellow of the Auctioneers' Institute, but he hed a qualified architect on his staff he had a qualified architect on his staff. There was an oral agreement between the plaintiff and the owner of the house, the plaintiff and the owner of the house, the defendant, that the former would charge a stated fee. There was later some disagreement about the amount of the fee and an action was started for it in the county court, the defendant counter-claiming for damages for alleged lack of skill and care. The counter-claim was not successful, either in the county court or in the Court of Appeal.

The contract provided, among other things, (a) that the contractor should complete the

work in accordance with the directions and the reasonable satisfaction of the architect, the plaintiff being nominated as such in the contract; (b) that defects or faults appearing within the defects liability period should, on within the detects liability period should, on the architect's instructions, be made good by the contractor; and (c) that on the ex-piration of the defects liability period or on the making good of defects the architect should issue a final certificate. The speci-fication issued under the contract required that the materials and workmanship were to be the best of their respective kinds and to the full satisfaction of the architect, who to the full satisfaction of the architect, who had liberty to reject. At the end of the defects liability period the plaintiff issued a final certificate. The defendant's counterclaim that the certificate had been carelessly given was rejected by the trial judge and the appeal was brought on the ground that the judge had treated the architect as entitled to disregard the specification as to how the work was to be done, and what was to be done, and had really given the architect a dispensing power to pass bad work, whereas good work (and good work only) was necessary for the performance of the contract by the builder, it being the duty of the architect, as the watch-dog on behalf of the owner, to see that work was

carried out properly.

Some of the complaints about bad building work were trivial. First, it was said that pipes were not lagged before the owner went into the house. However, the lagging (which was required by the contract) was done afterwas required by the contract) was done afterwards and although at a later date 2 ft. of pipe were found to be exposed and not lagged the court accepted the evidence of the builder that he had completed this particular work throughout. Secondly, it was complained that woodworm had been found in the bathroom. But the attention of the architect was not drawn to this by the building owner, and it was not a matter which was so obvious as to be seen. The worm apparently worked its way eventually through the paint and the Court of Appeal through the paint and the Court of Anneal ruled that the trial judge "could not possibly hold against the architect that he was neeligent for not observing this if his attention was not drawn to it." The third matter (Continued on page 349)

Opera Houses. Hope Bagenal. At AA, 34, Bedford Square, W.C.1. 6.15. APRIL 16

Colour in Buildings. D. L. Medd and H. L. Gloag. 6 p.m.

Picton Street Flats. Cleeve Barr talks about AA visit. At AA, 34, Bedford Square, W.C.1. 6.15. APRIL 18 The JOURNAL is able to illustrate ex- for March 1, the winner was Eero construction next January. clusively this week both the winner's and embassy building for Grosvenor Square, the runner-up's design drawings in the recent limited American competition for an

London. As announced in the Journal American contractors, and it is hoped to start neo-Georgian commonplaceness. is to be tendered for by both English and Saarinen, and the runner-up was Edward D. Stone. The building, for which the US Congress have appropriated over £1,000,000,

As the first contemporary building—if in a very reswill provide a welcome example for future development in an area unduly wedded to trained way-in this part of Mayfair, it

WINNING DESIGN FOR AMERICAN EMBASSY IN LONDON

The US Government appointed Robert W. McLaughlin, of Princeton, N.J., to prepare the competition, and invited the following architects bins, William W. Wurster and Minoru Yamasaki. The Government also appointed a Jury of Award of the following: Pietro Belluschi, FAIA; George Hughes, Director of Foreign Buildings; Livingston T. Merchant, Assistant Secretary of State; Henry The jury had to assess unsigned drawings-as is by secret ballot, and within 21 days of the date to compete: Anderson and Beckwith, Ernest J. Kump, Eero Saarinen, José Luis Sert, Hugh Stub-Bain Cummings, FAIA; Loy W. Henderson, Deputy Under Secretary of State; William P. R. Shepley, FAIA, and Ralph T. Walker, FAIA. customary over here—but had to select the winner for the submission of drawings. All the competitors were paid a fixed fee of \$4,000, which had to cover an obligatory visit to the site. The competition conditions contained a statement of architectural policy, which, in view of the criticism at US Embassy building on the Continent, we quote in full as an example of extreme tact. "The United States, will create goodwill by intelligent ture appropriate to the site and country. Major policy shall be to provide requisite and adequate facilities in an architectural style and form which is distinguished and will reflect credit on the appreciation, recognition and use of the architecemphasis should be placed on the creation of goodwhich has been levelled, on the whole unjustly,

will in the respective countries by design of buildings and distinguished architectural quafity rather than adherence to any given style of architecture. Design shall adhere to established good practice and, to the extent practical, use construction techniques, materials, and equipment, of proven merit and reliability. Buildings shall be dignified occupy and will visually establish one side of the sides as well as to the surrounding area of London surrounding London as far as scale and materials site has been acquired from the Duke's estate on and economical to build, operate and maintain." The conditions further stated: "The building will Square. Its visual relationship to the other three relation of the building to Grosvenor Square and tion to London. This program calls for a minicharacter of the American Embassy in London." Saarinen's winning design is an unemphatic, symmetrical building, only five storeys high, in contive surveyors of the Duke of Westminster. The is of the utmost importance." And again: "Careful consideration should be given to the are concerned. This does not imply copying anything. The building should represent the United States at this time: it will form one side of Grosvenor Square and be of great importance in relamum of detailed planning of internal spaces, so as to permit maximum study of the form and After such admonition it is not surprising that trast with the nearby seven- and eight-storey neo-Georgian buildings beloved by the conserva-

separate entrance. These are: first, an area of not more than 121,500 square feet, called a central functional area, which should include an entrance bassador and staff (1,675 square feet), for the Deputy Chief of Mission (800 square feet), for the bassador's office should be planned so as to be and a maximum of 150,000 square feet of floor space was to be provided. The building should be divisible into three areas, each requiring a lobby of 1,000 square feet, offices for the Am-Political Counsellor (2,000 square feet) and a conference room of 600 square feet. The Am-The proposed Embassy, the competition conditions stated, was fundamentally an office building, reached directly, or through private corridors, from all the offices listed above, which constitutes a working unit. This unit should not be on the There should be two floors, or more, over the tion service. A basement should be provided for storage, service, cafeteria and facilities other than office space, and a sub-basement should be provided for parking 25 motor-cars. The building ground floor, and the first floor was not desirable. Ambassador's floor. Second: an area of 15,000 square feet for the consular and visa area. Third, an area of 13,500 square feet for the US informaa 999 year lease.

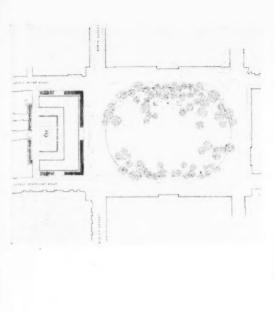
is not to be air-conditioned. Materials should be procured as far as possible in England. (Saarinen is facing his frames with Portland Stone.)

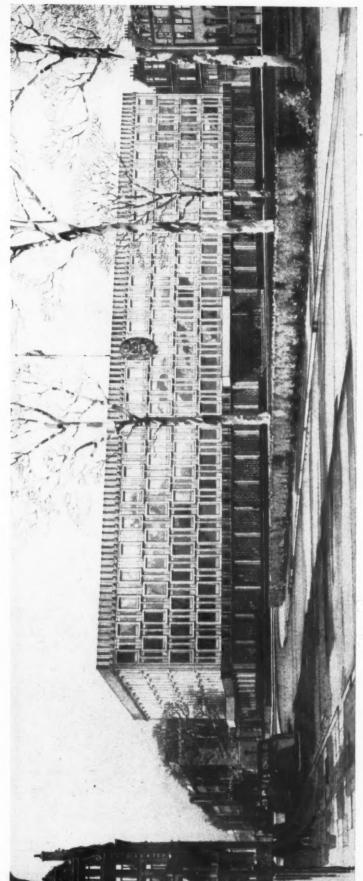
The height should not exceed 100 ft.

The height should not exceed 100 tt. site has been acquired from the Duke's estate on emphasis should be placed on the creation of good-

SOUARE ~ F O Z DESIG GROSVENOR C NINNIN Z Š EMBASSY Z ARINE Y SO S 0 NEW ×

end two wings project toward the rear to a depth of 250 ft. The floor area provided is 146,007 sq. ft. The column 2,554,279 cub. ft. Saarinen suggests that the building could be enlarged by the addition of a third of floor area. The site plan, right, shows the new building sited at the top, the west side of Grosvenor Square. The north, south and east sides are "indicated according to the realization of the estate of the Duke of Westminster's ten-year programme." The construction is best indicated by the part section shown on page 345. Saarinen states: "The design uses an English pre-cast structural system. The exterior wall consists of pre-cast box frames. They support pre-stressed T-beams which are bonded laterally by and act structurally with a concrete floor slab poured in place. Materials: blocks of Portland stone form the grille in front of the concrete The perspective below, first reproduced in the JOURNAL of March 1, shows Saarinen's design for a new American Embassy building on the west side of Grosvenor Square. It is 71 ft. high, the frontage is 330 ft., and at each wing to the rear, on the central axis of the building. This would provide a further 23,000 to 35,000 sq. ft. framework on the office floors. The balcony frieze, with seals of the States in low relief, and the cornice are sand-moulded, black oxidized bronze. The great seal of the United States and the first floor protective grilles are natural bronze."

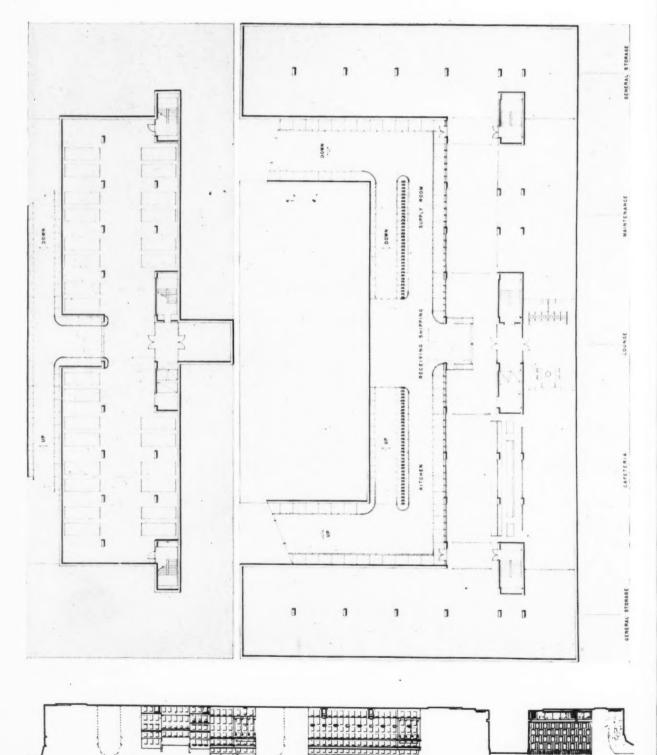


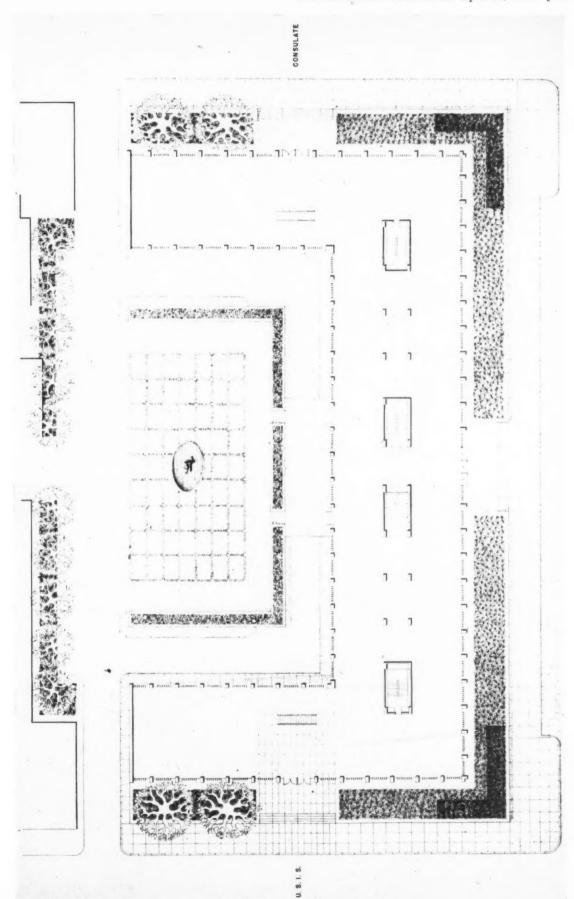


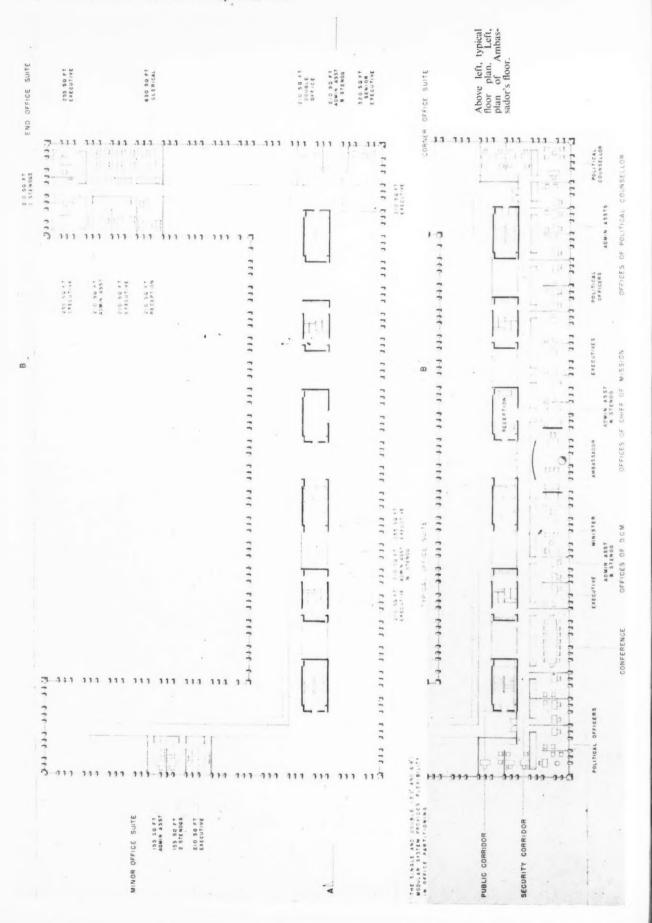
WINNING
DESIGN
USA EMBASSY
COMPETITION



Above left, the sub-basement. Extreme left, and above are longitudinal and cross-sectionsthrough Grosvenor Square, showing the size of the new embassy in relation to the existing buildings. Opposite page, the ground floor plan.



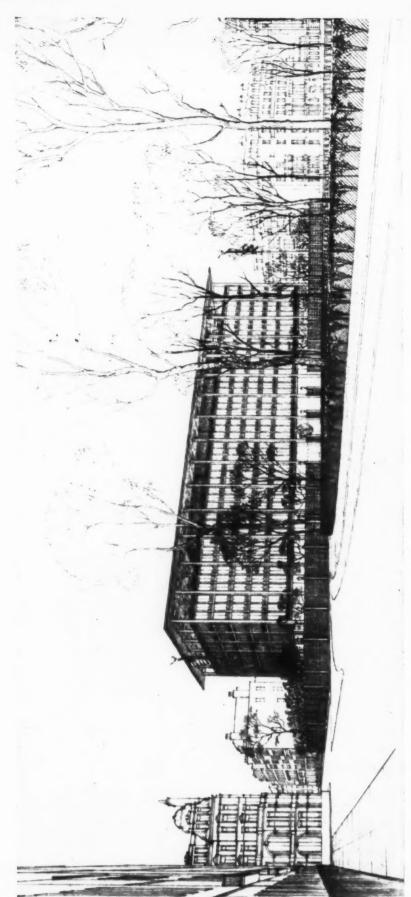




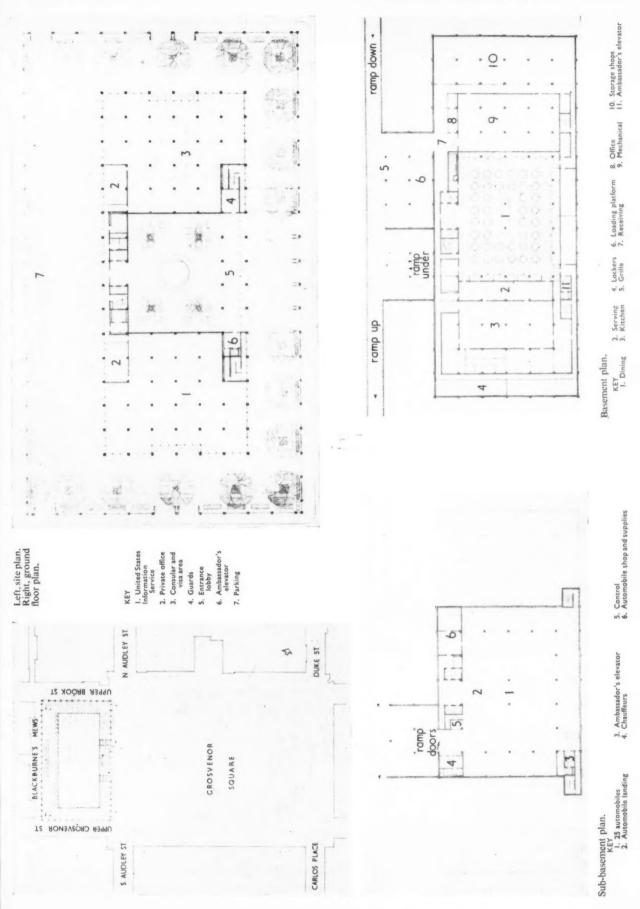
EDWARD D. STONE'S DESIGN: RUNNER-UP IN THE USA EMBASSY COMPETITION

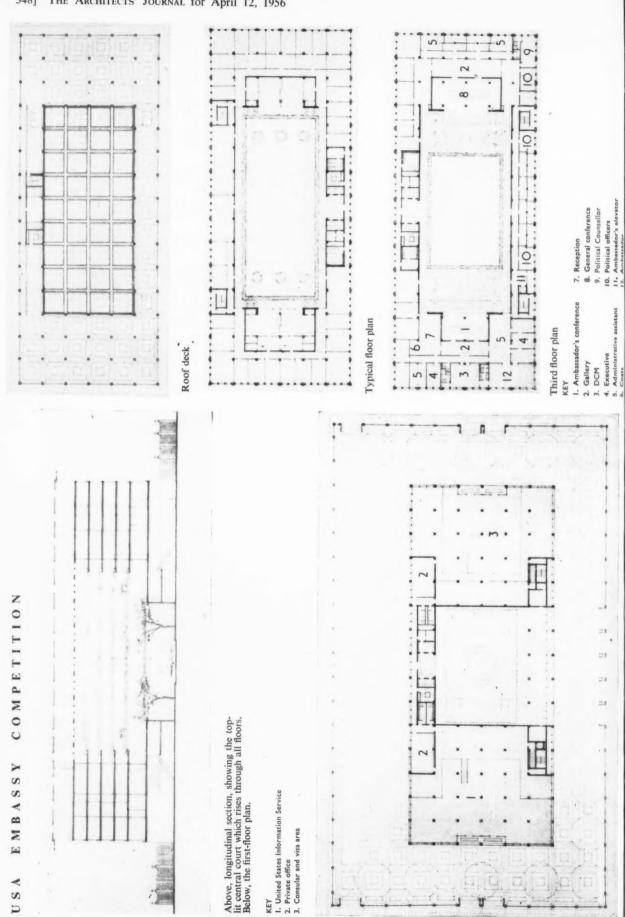
The runner-up in the recent competition for the US Embassy building in Grosvenor Square was Edward D. Stone. Below is a perspective view from the south-east. On the right are cross and longitudinal sections through the square, showing the proposed embassy in relationship to existing buildings.





Left, site plan.





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News (Continued from page 339)

was the paintwork and the plastering. The trial judge took the view that the standard of paint-work was moderate. He had inspected the house and had taken into account the fact that the paint had been on for two years, and that there were only two coats of paint.

The trial judge looked at the matter in this way: "There are certain complaints that are made which complaints really amount to this, that the architect did not supervise properly and allowed the builder to get away with a certain amount of shoddy work. I think that there is no complaint that does not come under that head in one way or another—at any rate the painting, plastering and exterior is not admittedly as good as it could be. I am not at all sure one might not say 'not as good as it should be'. One must remember that, as Mr. Cotton very properly put it to me, they were building down to a price. That must mean that a certain tolerance must be expected. I think that this accounts for a very great deal of the complaints, if not indeed for all of them." As the judge said later, there were imperfections in the house, as he thought there were in practically every house, but in very few matters did it seem to him that there was anything like the position where he could say, "Their architect failed here—he ought to have noticed this—or he ought to have ordered the

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builder to put this right." The majority of the Court of Appeal thought that such a judicial approach was not wrong. Whether some other architect in the same circumstances might have come to a different conclusion from that reached by the plaintiff did not necessarily matter.

In the judge's view the plaintiff had not been as hard on the builder as he might have been, or as another architect might have been, but the plaintiff "never passed anything 'rank bad'", and could not be found guilty of professional negligence.

But a fourth matter of complaint by the house owner raised a slightly different issue from that raised by the previous three. The plaintiff was obviously not simply backing up the builder at every stage and doing nothing for his client because he did draw the builder's attention to certain things which needed to be put right. His attention was drawn to a certain number of stained tiles, the stains having no doubt been caused by the builder's men dropping paraffin on the tiles. The stains were not very bad, but they were noticeable. When the question of dealing with the tiles arose the builder came round with some other tiles with a view to replacing the marked ones, but the tiles which he then brought did not match to the satisfaction of the owner. The tiles were taken away and nothing more was done. The final certificate was given without anything more being done.

None the less the decision of the Court of Appeal was that the plaintiff had properly certified that he had been reasonably satisfied with what had been done by the builder, although all that had been done by the builder was to do the best he could to match the tiles which had previously been laid. It seemed a little odd to one of the members of the Court that there were no tiles left over, or that it was not possible to match tiles of a well-known make, like these, without difficulty. An architect will know better than a lawyer whether this is really odd.

The crux of this important decision of the Court of Appeal is that, when measuring the finish of building work, it is proper to have in mind the kind of house that was being built, and the price of that house. It seemed to Lord Justice Morris' only natural that where there is a house that is being built at a very great expense, and another house that is being built at a very moderate price, one would expect different quality in the work." At the same time his lordship hoped that nothing in the decision would give any countenance to the view that a sort of general dispensing power is given to the architect under the standard RIBA contract. But the minority member of the Court, Lord Justice Denning, thought that the decision amounted to precisely that. Perhaps many who are not lawyers will think so too.

OFFICES AT CHISWELL STREET LONDON, E.C.1



This new office block, above, at the junction of Chiswell Street and Bunhill Row, E.C.1, for the Friendly House Property Investment Company Limited, is an extension of their existing building on the adjoining site. The building has been designed by Cecil C. Handisyde, in association with Hammett and Norton. It has a total floor area of 47,100 sq. ft. The structure is steel framed with hollow pot floors. The upper floors, which are supported on white circular terrazzo columns, have curtain wall cladding in a Portland stone frame. The offices will be fully illustrated in a later issue. The general contractors are Bovis Ltd.

L.C.C. TIDEY STREET NEIGHBOURHOOD

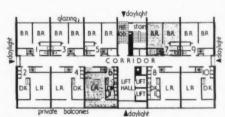


The scheme for the Tidey Street area in Poplar, which was illustrated by a model photograph and briefly described in last week's JOURNAL, will be a further step in the development of the Stepney-Poplar redevelopment area. The redevelopment area covers 1,495 acres and has been planned as a series of twelve neighbourhoods, varying in size from 2,200 to 10,700 people. Tidey Street forms part of the eastern half of neighbourhood 7, immediately to the north of Lansbury. The planning of the neighbourhood unit and the constructional work are under the direction of Dr. J. L. Martin, architect to the council, assisted by H. J. Whitfield Lewis, Principal Housing Architect, M. C. L. Powell, Assistant Housing Architect, A. J. M. Tolhurst, architect-in-charge, Mrs. M. O. Stephen of the Housing Division, J. H. Humphreys, Senior Structural engineer, F. Barford and E. W. Bunn of the Structural Engineering Division, L. W. Lane, Senior Planning Officer, P. Johnson-Marshall and G. C. Logie, Group Planning Officers, W. G. Bor and Mrs. A. M. McEwen of the Planning Division. The photograph above is of the model from the south-east, with the 19-storey maisonette block, which is illustrated on the opposite page, in the foreground. It was considered desirable that the housing should generally be low in height and that as many dwellings as possible should have private gardens. It was also required that dwellings should look away from the Bow Common gas-works to the west of the site on to gardens or across open spaces. These considerations and the need to provide ample space for garages, estate workshops, etc., and at the same time attain a housing density of 136 persons per acre, made it essential to plan some of the accommodation in an unusually tall building. The scheme therefore includes one 19-storey block of cross-over maisonettes, mainly open on the ground floor. The block is planned so that all living rooms face south, away from the gas-works and railway lines, and obtain an excellent view over the docks and river, and beyond to the hills and countryside of Kent and Surrey. In the planning of the 19-storey block a new cross-over 3-room maisonette plan has

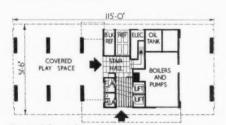
been evolved, in which two dwellings are grouped in a unit two-storeys high, with a frontage of 19ft. I in between crosswalls. Although each dwelling has an actual clear internal width of 18 ft. 6 in. the provision of two dwellings in a two-storey unit makes the effective frontage per dwelling 9 ft. 62in.



Typical plan, floors 2-18



Typical plan, floors 1-17



Ground floor plan [Scale: 45" = 1' 0"]

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This compares favourably with previous narrow-frontage maisonettes planned as one dwelling to a height of two storeys on a frontage of 12 ft. 3\frac{1}{2} in. The dwellings are approached from short, well-lit and ventilated internal access corridors, which have a maximum distance of 28 ft. from a source of natural light. One dwelling has the living room and dining-kitchen at internal access corridor level, the bedrooms and bathroom on the upper floor being approached by the internal staircase, over and across the access corridor. The other dwelling is the reverse of this. Another advantage of this method of planning is that noisy rooms, living rooms and kitchens, are over each other, and the same applies to quiet rooms, i.e. bedrooms. The planning of kitchens, bathrooms, etc., over each other makes for simplicity of services and allows for full use of ducts. The internal bathrooms and w.c.'s will have mechanical ventilation. Each dwelling will be centrally heated by convectors and hot water will be supplied from the oilfired central heating plant. For the provision of cold water, storage tanks will be installed at different levels throughout the building to minimise and balance pressures. The block will be of reinforced concrete cross wall construction, with concrete floors and pile foundations. The cross walls will be 7-in. thick. building, which has 18 floors of living accommodation, has an overall plan'size of 114 ft. by 52 ft. and contains 90 three-room dwellings and 90 tenants' stores. Refuse chutes are accommodated in the open lobby linking the internal access corridors with the staircase. Two high-speed lifts will deliver at every access corridor level. The sketch below shows the south facade of the 19-storey block.



Typical plan at access corridor level [Scale: #" = 1' 0"]

Typical plan at intermediate floor level



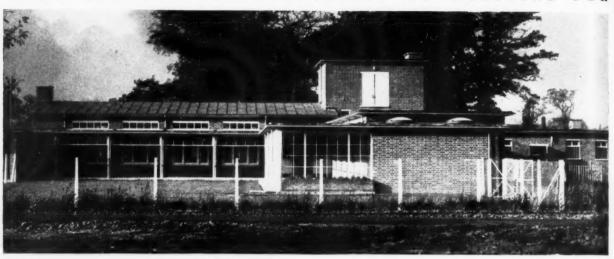
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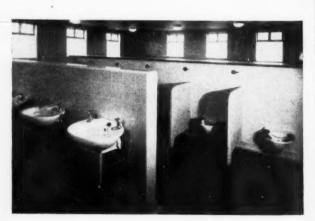
VILLA FOR LOW-GRADE PATIENTS AT HOSPITAL FOR







This "villa" for 52 of the lowest-grade mentally-deficient patients was designed for the East Anglian Regional Hospital Board by its architect, Guy Aldis. (Deputy regional architect, W. K. Ferguson; senior assistant architect in charge, R. E. Manwaring). The left-hand wing in the picture above is the day room (seen also on the left: note specially-designed furniture to prevent patients damaging themselves). The kitchen lies beyond the day room. The wing nearest the camera houses one of the two dormitories (another projects on the other side). Both are supervised at night by a nurse who occupies the kiosk shown bottom left, from which all electrical switches are operated. (Note: the glass-brick and metal windows were provided to cut down maintenance costs in a building where the patients are destructive). Ample lavatory space, with little privacy, was required, (below),



and the architects had to provide arrangements for frequent hosing down of this area. On the opposite page, top left and right, are photographs of one of the two quiet rooms in which the more noisy patients have to be placed at times. Beneath these pictures are, left, one of the lock-back doors which separate the

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place

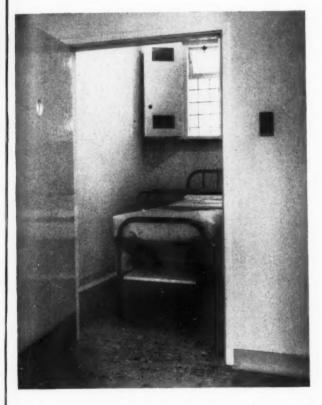
THE MENTALLY DEFICIENT, LITTLE PLUMSTEAD, NORFOLK

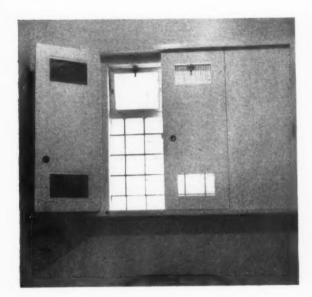
day room from the dormitory area and, right, one of the terraces outside a dormitory. The dormitories and the day room have radiant-heated floors; remaining rooms are heated by low-temperature heating panels. Crawlways and floor ducts have been constructed to carry the service mains and all pipes have been placed in vertical chases to stop interference by destructive patients. The heating chamber is in the basement. The walls

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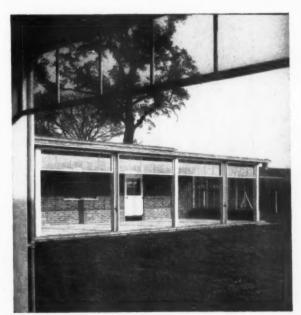
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ent ind the ese are of 11-in. cavity and 13½-in. solid load-bearing brickwork, with reinforced concrete roofs over the sanitary blocks, dormitory and kitchen block. The day room has a copper roof on woodwool slabs supported on eight steel trusses. The concrete roofs are insulated with 2-in. wood-wool slabs and foam slag screeds; the roof finish is of three-layer bituminous roofing. The roofs over the verandah are reinforced concrete, supported on half Portal frames. The ceiling over the day room is suspended from the metal trusses and consists of ¾-in. insulation board, with chamfered edges, in 2-ft. by 2-ft. panels. Other ceilings are plastered. The floors generally are 9-in. by 9-in. by ¾-in. thermoplastic tiles; the kitchen and toilet blocks have 9-in. by 9-in. by $\frac{3}{6}$ -in. heather-brown quarry tiles.



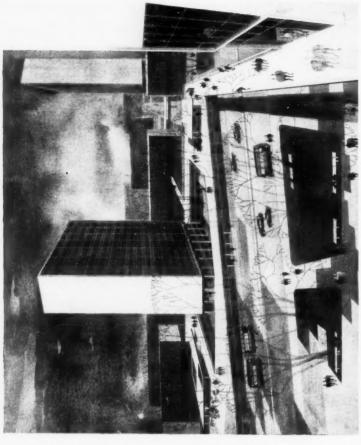




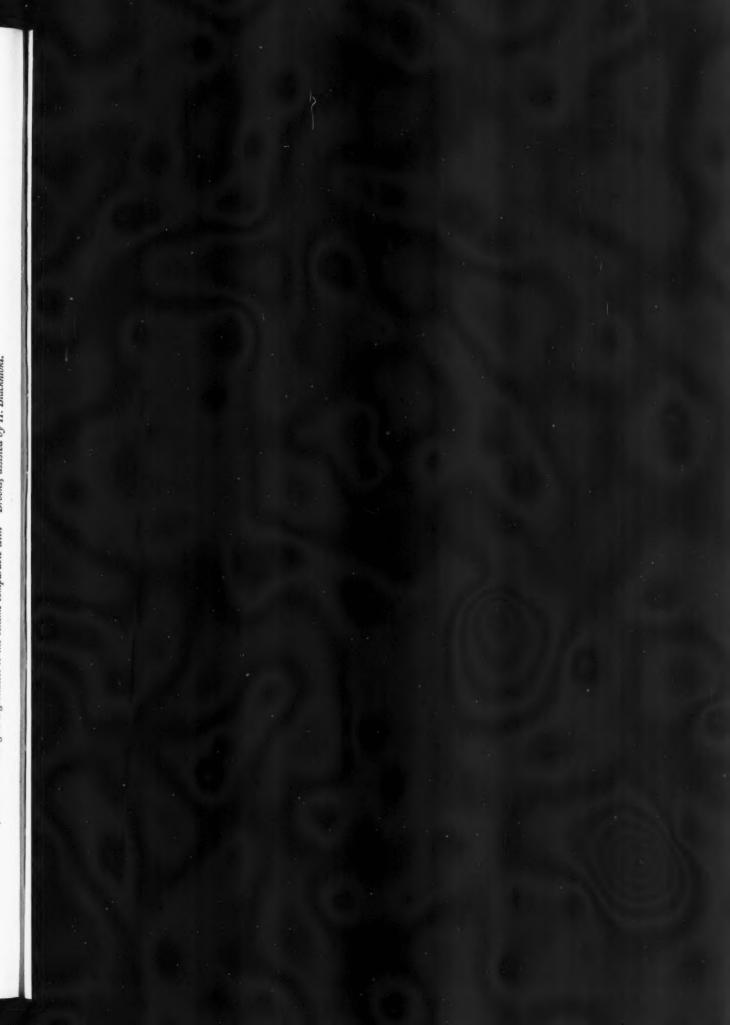


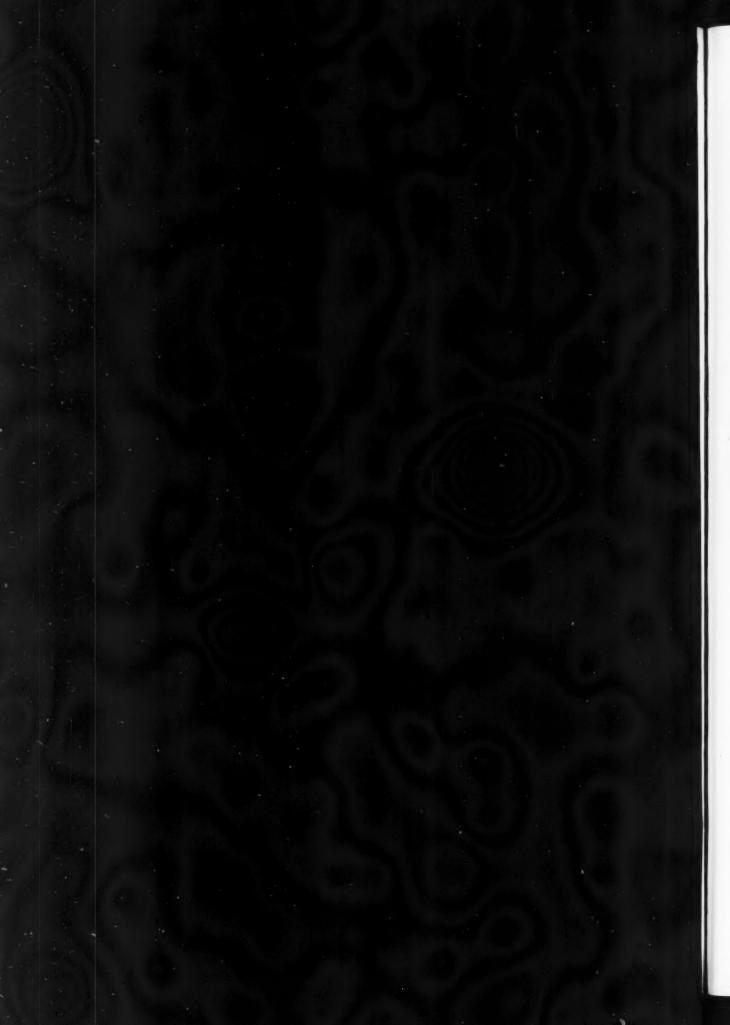
MORE ABOUT THE ARBICAN SCHEME

and roof terraces to be created, which should all give a greenness to the scheme comparable with The LCC and the City Corporation have just issued this perspective and details of their joint plan for the Barbican area (see also plan and photograph in issue for March 8-15):—The proposed open space around the church and along the bastions of the Roman Wall. Residential use, largely in the form of tall towers, is also suggested to the north between the Metropolitan Also, the proposed tower form of development would enable a number of new private open spaces scheme provides primarily for 19.5 acres of offices, 3.4 acres of commerce, 11.25 acres of railway and the Barbican so that full advantage can be taken of the open space which will be be diverted to educational needs, should it be thought necessary, to provide schools within the Full provision is to be made in the scheme for garages, car parking, shopping, cafes, pubs and other community facilities. A public open space has already been proposed in the development plan for the area adjacent to the Roman Wall bastions south of St. Giles, and a The office buildings are proposed mainly in the form of tall towers on the west, south and east of the area, all surrounded by plenty of light and air. Each of the towers rises from a generous will consist of one high or two low storeys above ground and two storeys below ground. These platforms will contain entrance halls, shopping terraces and arcades, showrooms, cafes, restaurants, roof terraces, and great scope is thus given for imaginative architecture. It is also suggested that there should be pedestrian ways on and between all sites at an upper level. The siting of the office towers has been arranged so that the highest ones are furthest away from St. Paul's, Route 11, thereby opening up this important new thoroughfare, so as to give a fine feeling of space created when the railway has been covered over. Part of this residential land could, of course, large new open space could be created over the Metropolitan railway if it were roofed over. residential development and approximately 6 acres of open space. A wide range of ancillary uses has also been suggested, depending partly on the wishes and needs of the various developers. site (unlike those of American cities), most of which will be covered by a platform or slab which public houses and other similar uses. Generous space can also be provided for garden and considerable additional passenger-carrying capacity), while the lower ones are on both sides of and openness. The residential area (which could be expanded or contracted as may ultimately be decided) is centred around St. Giles' Church, mainly with six-storey maisonettes in traditional squares. This not only gives a precinctual atmosphere, but takes advantage of the and also adjacent to the underground stations of Aldersgate and Moorgate (which have



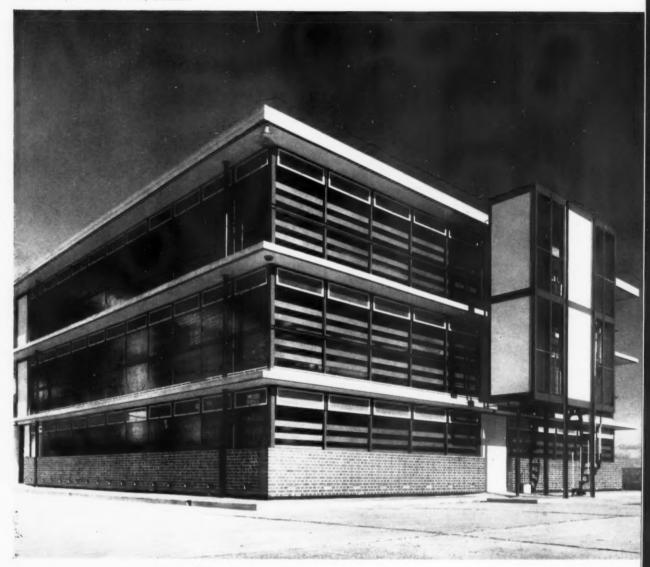
the Temple or the Inns of Court. Development is being co-ordinated with the LCC's comprehensive development area of Bunhill Fields. The scheme has been prepared jointly by the following: London County Council. Dr. J. L. Martin, Architect to the Council; F. G. West, Deputy Architect; the Senior Planning Officer, A. G. Ling (until April, 1955), L. W. Lane (from April, 1955); Reconstruction Group Planning Officer, P. Johnson-Marshall. In charge of the Comprehensive Area, G. C. Logie. In charge of the Detailed Scheme, R. H. King; assisted by W. Kay and S. Sturdy. Corporation of the City Planning Officer; H. H. Jackson, Deputy City Planning Officer; Principal Planning Assistant (Civic Design), A. D. Knapton (until August, 1955), S. A. E. Johnson (after August, 1955); Principal Planning Assistant (Development Control), L. P. Brooks, assisted by H. Blackmioki.





WORKING DETAIL

GLAZED WALL, SEED WAREHOUSE AT WITHAM, ESSEX Chamberlin, Powell and Bon, architects

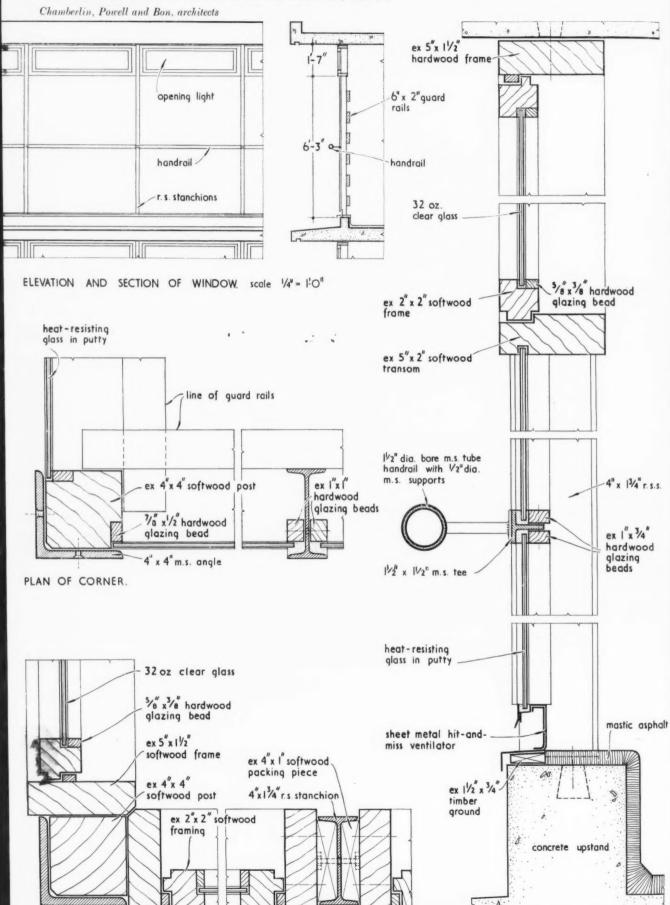


The chief determining factor was the need to keep the seeds dry and well ventilated. It was found that the method chosen-walls clad with heat-resistant glass with natural ventilation top and bottom-was cheaper than the more usual solid concrete, owing to the saving in weight on the structure. A common fault in seed warehouses of solid construction is that condensation forms where the sacks lie against the walls. Here the fixing of guard rails to the inside of the framing prevents this by allowing a free circulation of air between the sacks and the wall surface. The wide eaves screen the ventilators against rain penetration and these and the handrail assist building maintenance. The structural metalwork is shot-blasted, chromate-sprayed and painted (four coats) crimson, the fixed timber frames are painted dark blue and the opening lights are painted white.

PLAN OF CORNER WITH OPENING LIGHT

WINDOW

GLAZED WALL, SEED WAREHOUSE AT WITHAM, ESSEX



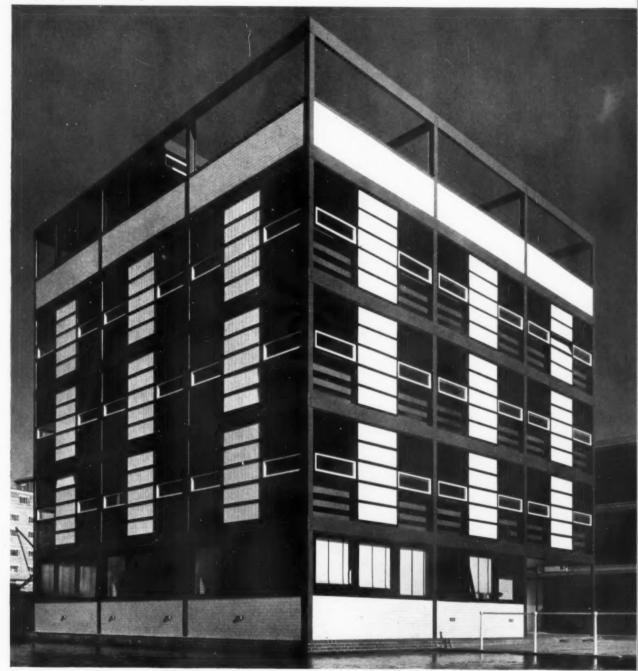
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WORKING DETAIL

GLAZED WALL: SEED WAREHOUSE AT WITHAM, ESSEX

Chamberlin, Powell and Bon, architects

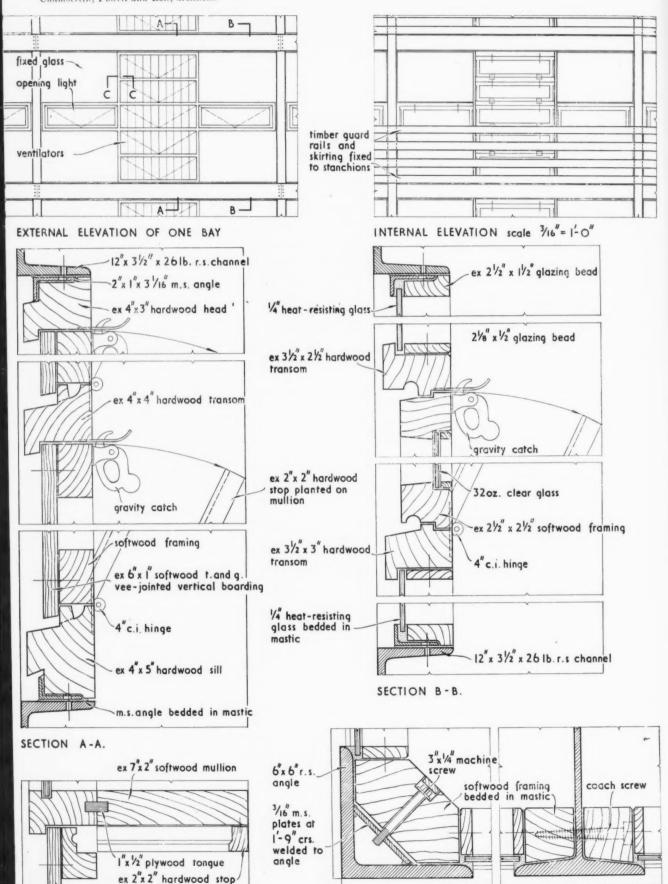


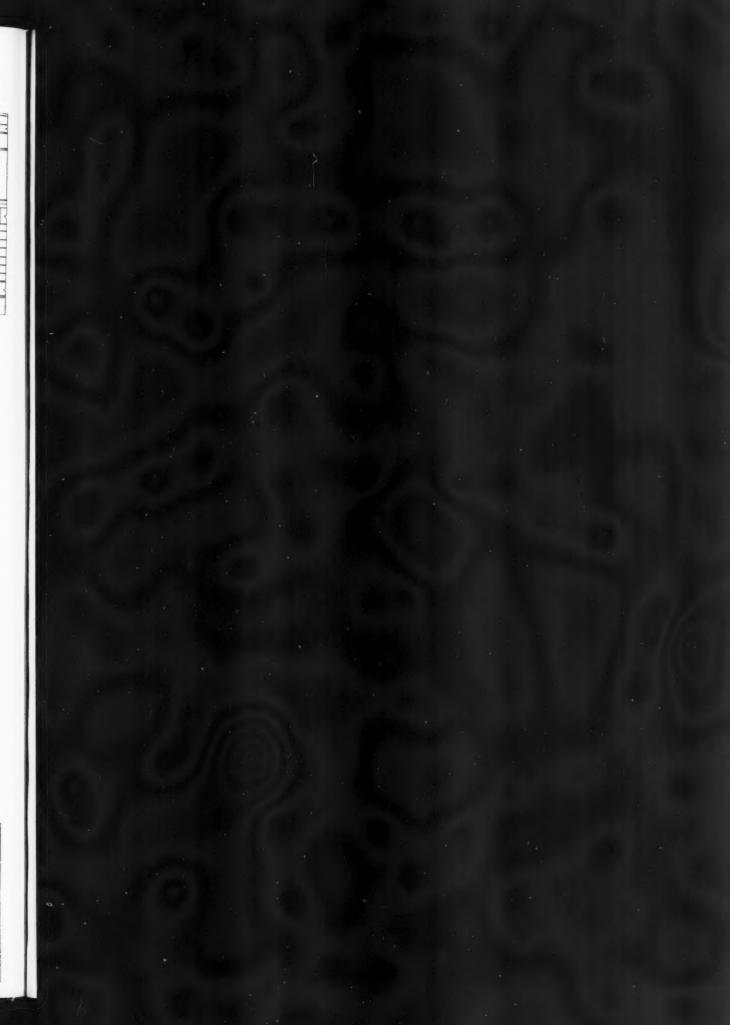
The ventilators are designed to open between deep mullions in such a way that they can remain open in wet weather without letting in the rain. Added ventilation is obtained by leaving a gap at intermediate floors round the perimeter of the building between the edge of the floor and the cladding. The opening lights lift off their hinges to enable the fixed lights above and below to be cleaned from inside. The structural steelwork is shot-blasted, zinc-sprayed and painted four coats; the hardwood frames are iroko treated with an aluminium primer; the softwood frames are yellow pine.

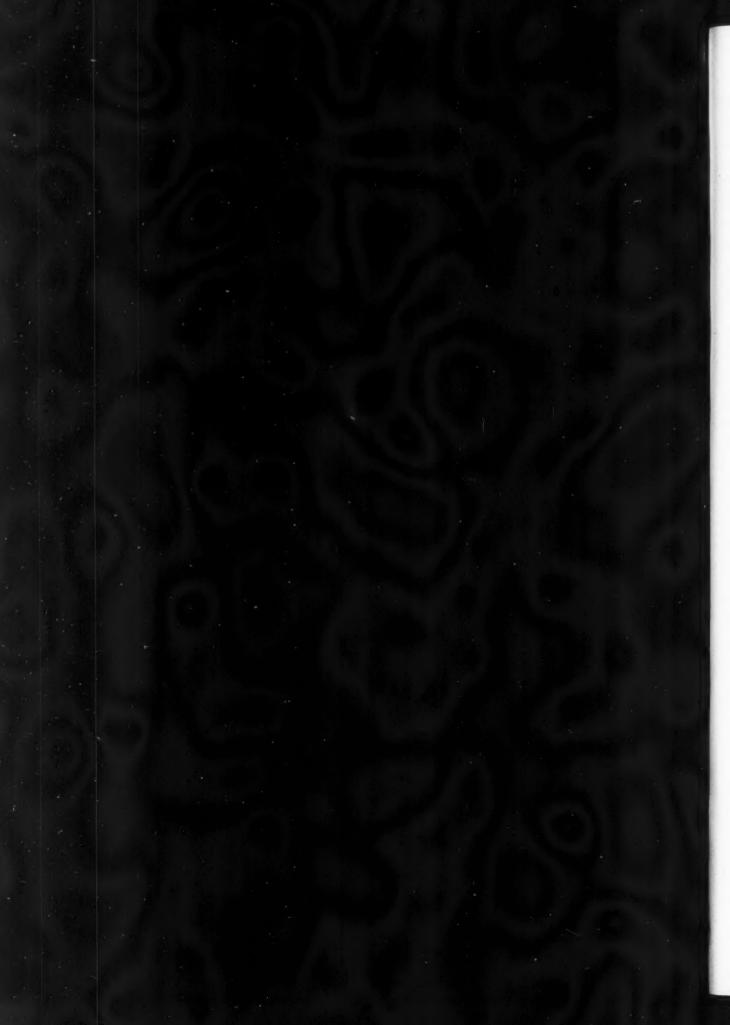
WORKING DETAIL

GLAZED WALL: SEED WAREHOUSE AT WITHAM, ESSEX

Chamberlin, Powell and Bon, architects







TECHNICAL SECTION

The last revision of the Model Byelaws was in many ways an advance on earlier versions but in one respect it seems to have resulted in a very drastic increase in building cost. The new attitude to fire resistance is an improvement in that it specifies resistance in terms of "hours of fire resistance" in a way which enables requirements to be related to performance of elements of structure under standard fire testing procedure. What seems unfortunate is that the present model requires a fire resistance of two hours for the walls of very many factory buildings which would previously have been constructed with simple sheeted cladding. To provide a two hour period of resistance usually involves a relatively expensive walling and the result in terms of the present industrial building programme must be a very much increased capital expenditure. Is this the result that was anticipated when the Byelaws were drafted and is it always justified?

We would welcome the general views of architects who have met this problem and would also be glad to hear of specific cases where the present regulations appear to have resulted in unjustifiable expenditure. If the problem is a general and serious one the profession ought to state its case and endeavour to obtain an amendment to the Byelaws. Safety is important but it should be reasonable safety, especially at a time when the country needs to get the best possible value from its capital investment.

This week's special feature

7 PRACTICE: the new rating procedure

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

Since April 1 ratebayers have known how much more or how much less they will have to pay in rates as a result of the new valuation and many will feel inclined to make an appeal. Since rateable value affects the economics of almost any building project it is fitting that architects should have some grasp of this subject and we have therefore asked D. Compton-James (formerly of the Inland Revenue) to describe the new procedure and what the building owner and/or his architect should do about it.

The new valuation lists show that over England and Wales as a whole the average increase in rateable value is 72.2 per cent. There are no separate figures for business premises as yet, but individual cases show increases ranging from 50 to 1,100 per cent. Such poundage rates as have already been declared indicate that most districts will have a poundage rate one-third less than in 1955-56. Business premises will therefore pay more in rates, while private houses will pay about the same or perhaps a little less. The turn of private houses will not

come until 1961, in which year they too will be re-assessed up to full current rental value. In this present revaluation, private houses have been re-assessed at 1939 rental

DUTIES OF THE ARCHITECT

For the next five years, which is as far ahead as we need to look at the moment, architects who are called upon to design or convert business premises will need to keep an eye on the question of the rating

assessment. We may as well include industrial premises also, because there is a strong possibility that industry may be re-rated. In some districts the valuation officer may, as a friendly gesture after he has seen the

as a triently gesture after he has seen the plans, give a hint as to what the rating assessment is likely to be, but there is no incumbency on him to do so, and in other districts the valuation officer will refuse to comment in advance. In any case the architect would do well to advise his client to submit the plans to a licensed valuer for a professional opinion as to the probable rating assessment, and for advice as to amendments in the plans that might result in a reduced rating.

Architects will also need to have some knowledge of the new rating procedure. Any ratepayer, including an occupier who pays an inclusive rent, or a duly authorized agent of a ratepayer, or a ratepayer in some other rating area, may at all reasonable times inspect the valuation list and make copies of it or take extracts from it without payment. (If he wants to see the previous valuation list, a charge of 2s. 6d. may be made.) Obstruction by a person having the custody of the list, either in its inspection or in the copying of items, is a punishable offence. So also is the demanding of an unauthorized fee. In either case a fine of up to £5 may be imposed.

HOW TO MAKE AN APPEAL

The right to make a proposal (appeal) is not confined to the ratepayer. Proposals may also be made by rating authorities (after the expiry of a temporary stand-still order imposed by the 1955 Act) or by valuation officers. Thus, if a rating authority is dissatisfied with the assessment on a particular property it can put in a proposal for an increase (or a decrease). Proposals by valuation officers should be negligible, for reasons which will become apparent.

Valuation officers have just had full opportunity to make correct assessments, according to their lights, and only the exceptional case in which there has been a recent change of circumstances will bring them into the proposal picture again. Proposal forms can be obtained on application to the valuation officer. As a matter of convenience most rating authorities will also carry stocks of proposal forms. The proposal form is rather a complex document containing no fewer than 11 "boxes"; but most ratepayers will be able to master its complexities after a short study.

THE EFFECT OF AN APPEAL ON THIS YEAR'S RATES

Where a proposal is made, the amount recoverable in respect of rates levied for that year (or for any subsequent year if the appeal is still unsettled) shall not be more than the total amount of rates levied in 1955-56, but this does not necessarily mean that the first instalment will be reduced. Most rating authorities will try to collect the full first instalment, provided it is not more than the total rates of 1955-56, in the hope that the appeal will be settled before the second instalment becomes due. If it is not so settled, the ratepayer will then get the benefit of this provision because he will not have to pay the second instalment (or, in some exceptional cases, not all of it) until the appeal is settled.

All rating authorities that offer a discount for prepayment take the view that although a proposal may have been made, the full amount of rates assessed must be paid by the due date in order to qualify for discount. This is rather a sharp view, but nothing can be done about it because the granting of discount is optional to the rating authority, and the rating authority is therefore in a position to dictate its own terms for discount.

THE HEARING OF APPEALS

Many proposals will be settled by compromise between ratepayers and valuation officers. Whether or not to compromise is a matter for personal judgment, but personal judgment should not be swayed by non-relevant factors, by counsels of despair over the difficulties of pursuing an appeal, or by impatience with the inevitable delays which will ensue. Owner-occupiers should also bear in mind the possibility that their Income Tax Schedule assessment may sub-

sequently be increased to the new rateable value, and any such increase will not be offset by an automatic decrease in the rate of tax.

Proposals not settled by compromise will be heard, in the first instance, by the local valuation court. Considerable delays—possibly up to three years—are expected in some areas. It has been difficult to find a sufficient number of persons who are suitable, willing, and able to devote a considerable portion of their time to the hearing of appeals.

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Certain relevant documents, such as rating returns made by occupiers of similar premises may be introduced by both sides at an appeal, or rather may be introduced if the valuation officer decides to initiate this step. This arrangement is a little one-sided. It means that in a case where the valuation officer cannot find any returns favourable to his case, he can block the production of unfavourable returns merely by doing nothing.

Normally it pays to be represented at an appeal. It is impossible to estimate the average cost of such representation. Indeed, it is quite likely that towards the middle of the year, many valuers will be forced, owing to pressure of work, to decline new clients. In one district where a local Chamber of Commerce is arranging for a valuer to represent its members, the valuer has been guaranteed a sum of £200 for not less than 20 and not more than 40 appeals.

The decision of the valuation court can be challenged by a further appeal to the Lands Tribunal. Here, of course, representation is almost essential.

CONCLUSION

Experience shows that it pays to appeal. As a rough working guide, it can be said that if business premises have been put up by more than 100 per cent., an appeal will have a 50 per cent. chance of success. In considering the cost of an appeal, it should be borne in mind that a saving of £10 a year in rates is equivalent to a total saving of £50, because five years will elapse before another revaluation is made.

INFORMATION CENTRE

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.

3.30 planning: regional and national RECLAMATION OF DERELICT LAND

Dereliction. (Two articles under the same heading appearing in the Architectural Review. The first, in the issue of November, 1955, by Kenneth Browne, and the second, in the issue of December, 1955, by Sir Hugh Casson.)

After their success in persuading people to notice roadside ugliness after their issue on "Outrage" last summer, the Editors of the *Architectural Review* have now turned their searchlight on to a problem of first-rate importance—the reclamation and control of derelict land. Their November issue contained a report, the first of a series covering different parts of the country, by Kenneth Browne on conditions in Lancashire, where a go-ahead county planning authority is trying to do what it can to clear up the

mess left by a century of mis-use. In the following month's *Review*, Sir Hugh Casson quotes in full a long letter from the County Planning Officer describing Lancashire's aims and technique.

Derelict land, in one form or another, is common throughout the whole country, but in parts of the industrial Midlands and the north it may almost be described as the natural landscape. In his visit Mr. Browne was shocked to find that there are some 10,000 acres of man-made desolation in Lancashire alone, and that in some districts as much as 40 per cent. of the total area is derelict. (A similar state of affairs on a much reduced scale is reported from Cheshire, where the County Planning Officer has recently estimated that some 3,000 acres are derelict, one third of it from salt working.) The cause of the devastation in Lanca-

(Continued on page 358)

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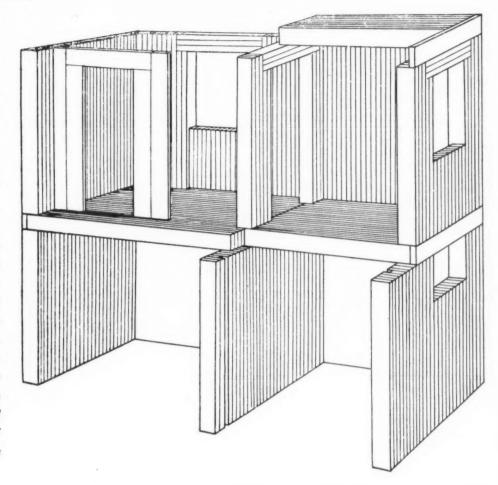
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We illustrate on this page a system of dry wall construction evolved by the Swedish " International Ytong," company. Storey height members of cellular concrete, of cross section 4 in. by 12 in. and weighing 110 lb. each are stuck together with two strips of asphalt adhesive and secured with 6 in. nails. The most interesting feature of the system is that the elimination of mortar joints has much increased thermal insulation. The Swedish Building Research Station attests that, whereas a 12 in. mortared wall built of this material gives a U value of 0.13 a similar glued and nailed wall gives a U value of 0.086. Beams



The Architects' Journal for April 12, 1956





are cast in steel moulds and their finish is sufficiently smooth to cut out the need for plaster. Floor joists are normally 4 in. by 8 in. and are reinforced; non-loadbearing internal partitions are formed by gluing standard beams edge to edge. Chases for pipes and recesses for radiators are formed by using members of 4 in. by 8 in. cross section. Though the logic of the system assumes that builders will specify the exact dimensions and the number of each component they require, the material can be readily cut on site. The need for scaffolding is much reduced, there is no drying-out time, and dimensions are more accurate than in traditional construction.

shire is primarily coal-mining: generations of coal-getting have produced severe and wholesale subsidence often accompanied by widespread flooding. These conditions have been aggravated by indiscriminate tipping. first of colliery spoil (sometimes in heaps 200 ft. high) and later by domestic and other industrial refuse. Abandoned industrial buildings and disused sand pits cover

In the industrial counties the process of devastation is still going on and is difficult to check. For example, the National Coal Board are unwilling to adopt the under-ground stowing of spoil, because of the extra costs involved, although it is acknowledged that this would substantially reduce the amount of subsidence. In their daily struggle to keep down the cost of coalgetting, they continue to tip on the surface. Moreover, the Board is apparently entitled to extend—without planning consent—any spoil heap which was in existence before Spoil neap which was in existence before July 1, 1948. The shortage of tipping sites for industrial and domestic waste is now great in many highly urbanized areas, so much so, indeed, that the fortunate owners of available tipping land demand, and obtain, high prices for its use. Under these condi-tions some firms have found it cheaper to buy good unspoiled land some distance away and tip on that. Local planning authorities everywhere are constantly being badgered to approve proposals of this kind. In Lancashire it is calculated that a further 10,000 acres will be required for tipping during the next 20 years, so there seems a clear case for employing controlled tipping as a means of reclaiming existing derelict areas where filling is needed. An effort is, in fact, being made to co-ordinate the largescale tipping programmes with the first stages of reclamation schemes, but in practice this is often difficult, because of the long distances between source and tip and the extra costs involved. Even when suitable fill can be found close by, the process of grading and levelling the site for future use can be lengthy and expensive.

The reclamation of thousands of acres of useless land, either by controlled tipping or by levelling and planting, is therefore a very big iob. The practical and adminisvery big job. The practical and administrative difficulties are so great that few planning authorities have as yet made any serious attempt to draw on these "hidden reserves" of land in their development plan

proposals.

It seems obvious that we cannot for long afford to waste our limited supplies of land in this way while schemes for new industry and housing go on eating up agricultural land at an alarming rate. The "mine and move on" phase in Britain should have come to an end by now. But the scale of the problem is so big that it can only had tackled successfully an a regional basis. be tackled successfully on a regional basis. Individual schemes by local authorities, how-ever laudable, can hardly be expected to contribute much to its solution. There are some signs that the Government is beginning to pay some attention to the matter. little time ago a Ministerial circular to local planning authorities asked for a survey to be made of derelict areas. This first flutter of animation should not be allowed to die away again.

The present efforts of the Lancashire County Planning Department are a valuable example. Systematic reclamation of a number of sites is now in progress, although the cases tackled so far are of necessity tively simple and cheap ones. In addition to forestry and open space, it is hoped that the restored land will be put to a variety of uses, including housing, agriculture and We need more land for all these purposes; money spent on providing for them out of what is now useless waste would surely be good national investment. Nor, it appears, is additional legislation re-

quired, for we are told that the Town and Country Planning Acts, the National Parks Act and the Forestry and Agriculture Acts between them provide powers for the re-clamation and improvement of land. At present, these powers remain almost entirely In their efforts to make use of them for a practical purpose, Lancashire have received support from both the Ministries and the developers. What is needed is a national reclamation campaign, executed regionally and financed if necessary by a enarge on all industries and undertakings that devastate land.

4.82 planning: urban and rural

NEW TOWNS

Planning in the New Towns. (Town & Country Planning. January, 1956.)

Planners in this country are subjected to such a barrage of continual and, it must be admitted, occasionally undeserved criticism that sometimes they are tempted to believe that their positive achievements are deliberately overlooked or written down. The best ammunition for a counter-attack is the success of the new towns. The January issue of Town and Country Planning, devoted to a progress report on development in the new towns, supplies this in quantity. In the 14 new towns established under the Act of 1946 some 50,000 houses had been completed at the end of 1955, together with 64 million feet of new factory space, and since their designation they have provided, in all, homes for more than 146,000 persons. These are impressive figures by any standard, and are a tribute both to the drive of the Development Corporations and the wisdom of the Governmental policy which created them. If this country is the acknowledged leader in town planning today, the contribution that the new towns have made to our preeminence can be gauged from the wide range of comments-some laudatory, some wistful, and a few critical-collected by the Editor from distinguished visitors from 13 different countries.

Running through this symposium of international comment is a bemused astonishment, first at the deliberate action of the British Government in trying to decentralize urban population, and second at the co-operation they are receiving from the authorities of the great cities themselves in doing so. The principle of urban decentralization has long been widely accepted, and often fiercely advocated, abroad, but until the results of the British experiment became known the possibility of carrying the pro-posal into effect was dismissed as pipe-

dream stuff.

Although doubts are expressed by some visitors as to whether or not this bold effort can wholly succeed, the most severe critics are, quite properly, two distinguished British observers. Professor Richardson gives us one more, wholly expected, denunciation of one more, wholly expected, denunciation of new town architecture. Sir William Holford allows "a pass, but without distinction," in the same subject. He considers that the chief value of the new towns is not as a solution for the overspill problem but as an experiment in a new form of administration. Probably the most interesting thing that emerges from the general survey is the undoubted financial success of the new towns. Six of the twelve towns designated in England and Wales now show a surplus on their revenue account, and the remainder may be expected to do so when their de-

velopment is further advanced. This raises the nice question of who should share in the profits. There have been several suggestions; the local authorities, the Treasury in their capacity as the developers who put up the money in the first place—or that the whole estate should, after a decent interval, be sold to private enterprise as a going con-cern. None of these suggestions seems satisfactory. If the construction of new satisfactory. towns has proved to be a profitable invest-ment and has now passed beyond the ex-perimental stage, then the most sensible course would surely be to set up 50 more and use the profits as they come along to create a public trust designed to help in the construction of the further new towns which will all be badly needed to decentralize our other great cities. These would be in addition to the expanded town projects which at the moment seem to be considered as the only practical alternative to more peripheral In some respects it is proving expansion. more difficult to begin to disperse the population of the provincial conurbations than that of London. South Lancashire and North Cheshire, for example, have an overspill problem almost as severe as London's. but as vet not one new town. The experience gained in the successful new town corporations could be put to good use here.

7.52 practice

DRAWING OFFICE TECHNIQUES

Graphical Symbols for Heating and Ventilating Installations. BS 1553: Part 4: tilating Installations. 1956. (BSI. 3s. 6d.)

Drawing office techniques were recently discussed at the RIBA and, concerned as architects and engineers were about this subject, it is obvious that many are confused as to ways and means of achieving uniformity. This standard sets out a very detailed method for the graphic illustration of one small facet of building-the heating and ventilating services. It should and would establish a code of practice, but whether every draughtsman in the country will be prepared to memorize a new language of no fewer than 139 symbols remains to be

7.53 practice PROFESSIONAL PRACTICE

The Practising Architect. Alec S. Eggleston, F.R.A.I.A. (Cambridge University Press for Melbourne University Press. 37s. 6d.) Mr. Eggleston lectured in the University of Meibourne on Professional Practice and Architectural Economics, and consequently most references are drawn from Australian precedents. Practice in the Antipodes is not unnaturally based on British ways and means, and so 80 or 90 per cent. of the book is relevant to many situations likely to occur in this country. Without doubt this is a book for the emigrant or would-be emigrant architect.

8.49 surveying : specification

BUILDING SURVEYS

Building Surveys. F. R. Huggins, ARIBA. (B. T. Batsford Ltd. 10s. 6d.)

A well written, well illustrated, sensible guide for students on the art of measuring. Unfortunately it omits instruction's on how to use a level.



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10.141 design: building types CHEST CLINICS

Chest Clinic Design; Report of the National Association for the Prevention of Tuberculosis Architectural Committee. N.A.P.T. 1956. (12s. 6d.)

The aims of this book are "to summarize the main objectives that come to the mind of the architect and chest physician when asked to design a modern clinic for tuberculosis and chest diseases." It includes an instorical summary, as well as chapters describing the principles which should underlie the design, and details of all the special rooms required for various types of clinic. Appendices give schedules of accommodation, dimensions of rooms and inventories of the equipment required. The book is illustrated with plans of recently constructed clinics.

No new ground is broken and no ideal is postulated; but the approach to the problem is entirely practical, and the recommendations made are, by and large, sound common sense. The planning problem is not a difficult one, but it is very useful to have the various objectives summed up in this way. The book is a necessary primer for an architect about to design a chest clinic.

10.142 design: building types CLINICS

Doctors' Offices and Clinics. Paul Hayden Kirk and Eugene D. Sternberg. (Chapman & Hall Ltd. for Reinbold Publishing Corporation, New York, 96s.)

Though we do not hear so much about group practice among doctors in this country as we did immediately after the war, this seems to have become normal in America and has led to the creation of a new architectural form, the clinic. Characteristically the American "clinic" is a onestorey building of good quality (costing \$14 per sq. ft.) standing in an open site in a suburb where two or more doctors see their patients. This book, like others in the publishers' Progressive Architecture Library series, is directed as much to potential clients as to architects. Thus it devotes a whole chapter to group practice as such and another to presenting the arguments (supported by full financial data) for building anew. This is admirable. A defect arising from this dual aim is that the actual examples of clinics illustrated are insufficiently supplied with technical data, with the result that the volume tends through the greater part of its length to fall to the level of a picture book. We can imagine a prospective client thumbing it through and saying "I'd like a waiting-room like the one on page 60 and an entrance with a curved freestone wall as on page 112 . . ." There are 42 clinics for doctors, among which Llewelyn Davies' Corby-the only non-American example-figures chastely, eight for dentists, 20 for both combined, and four public health centres; all are presented with small scale plans, several photographs and a schedule giving the staff served, the cost, the main materials used, the heating system, and some general comments. Whatever else it is valuable testimony of the growing association in the minds of American patients between medicine and non-traditional architecture,

11.42 materials: general FIRE PROTECTION

Flammability Test for Thin Flexible Materials. BS 476: Part 2: 1955. (BSI. 2s. 6d.)

Since the deletion of the non-flammability test of BS 476:1932 from the 1953 edition, a general test has been devised to measure the flammability of thin flexible material. The apparatus involved is a simple frame for suspending the material under test and the Standard lays down that six specimens shall be tested.

12.59 materials: metals ALUMINIUM

Aluminium in Contact with Other Metals. (Aluminium Development Association. 2s.) Gives some information additional to that put out in BRS Digests 39 and 40 on Aluminium and Aluminium Alloys in Building published in February and March, 1952. In particular it points out damage which may be caused by moisture held by surface tension in faying surfaces (e.g., lap joints in corrugated roofing) which should be coated before assembly with a jointing compound, preferably in the form of a paste (or tape) loaded with zinc chromate or barium chromate. In the BRS Digest the opinion was expressed that aluminium/steel joints were not a likely source of bimetallic corrosion. Here, however, it is suggested that where aluminium is bolted to steel, care should be taken to insulate the two metals. either by means of a jointing compound or by neoprene or other sleeve and washer -though the booklet does not, of course, fail to point the moral that all-aluminium structures should be used whenever feasible. Another new point discussed is the possibility of damage to aluminium through contact with condensation fostered by unsuitable thermal insulation materials. Suggests painting with bitumen paint or use of borosilicate glass wool, cork, or aluminium foil as insulation.

12.60 materials: metals ALUMINIUM AND ITS ALLOYS

Wrought Aluminium and Aluminium Alloys: Sheet and Strip, BS.1470: 1955; Drawn Tube, BS.1471: 1955; Forging and Forging Stocks, BS.1472: 1955; Rivet, Bolt and Screw Stock for Forging, BS.1473: 1955; Extruded Round Tube and Hollow Sections, BS.1474: 1955; Wire, BS.1475: 1955; Bars, Rods and Sections, BS.1476: 1955; Plate, BS.1477: 1955. (BSI. BS.1470, 7s. 6d. BS.1471-1477, 6d. each.)

More and more aluminium is being used and specified by architects, but the latest batch of British Standards on the subject is hardly within the architect's province. These Standards are the specialist's reference, but as such are most valuable and welcome in the industry. The Standards regroup and revise earlier Standards issued in 1948 and 1951 and include three new materials: the super-priority aluminium 1, which is the almost pure aluminium used in flashings, and two aluminium magnesium silicon alloys designated H.20 and H.30. H.20 contains copper, and H.30 has an obligatory manganese content. Many manu-

facturers have in fact been including manganese in structural alloys but the new Standard will ensure additional design strengths of up to 1 ton per sq. in. in tensile stresses.

12.61 materials : metals

STEEL FOR PRE-STRESSED CONCRETE Steel for Pre-Stressed Concrete. BS.2691: Part I: 1955. (BSL. 2s. 6d.).

This is the first part of a projected series of specifications for steel in prestressed concrete and is confined to the subject of plain hard drawn steel wire. Gives technical requirements of six recommended sizes with tensile ranges up to 140/150 tons/sq. in.

13.128 materials: timber IDENTIFICATION OF WOOD

What Wood is That? A. Schwankl. (Thames & Hudson Ltd., 25s.)

This is handbook which sets out to tell the reader how to identify 40 different timbers in common use without recourse to the microscope or (generally) to laboratory technique. The method chosen is to publish a series of keys such as colour, the clearness with which the annual rings and ray figure show, types of pores, etc., with a list of the "possibles" conforming to each description. So that, by beginning with the most striking characteristics of the piece of wood you wish to identify, you can systematically narrow the field. Best of all. you can refer to a collection of cardboard sheets with actual veneers 3 in. by 1 in. square of each of the 40 woods pasted to them and which are tucked into a folder under the cover. Though this book is not designed specifically for architects, and though the woods chosen (30 home grown and 10 imported) suggest a bias to the cabinet maker as against the builder, it would form a useful architect's office reference.

13.129 materials: timber TILE BATTENS

Wood Battens and Counter-Battens for Slating and Tiling. BS.1318: 1955. (BS. 2s.). Revision of the BS publication August, 1946. This revision includes the specification of counter-battens, which should not be confused with the "vertical" battens running up the slope of a roof when using Roman or Spanish tiling. Six species of timber are listed as permissible alternatives.

14.80 materials: concrete FIRE RISK AND PRESTRESSING

Fire Resistance of Prestressed Concrete. BRS Digest No. 84. January, 1956. (HMSO. 3d.)

Tests to BS 476:1953 have established that from the point of view of fire resistance prestressed concrete is different from ordinary reinforced concrete, but that any desired degree of fire resistance can be imparted to it by suitable design. Fire resistance for unprotected composite floor made of light prestressed concrete beams may be as low as 15 to 20 min.; ½-in. plasterboard gives an extra 10 min., ½-in. plasterboard with ½-in. plaster finishing coat gives an extra 25 min. and 1-in.





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sprayed asbestos or 1-in. vermiculite gypsum plaster on lath can give an extra 2 hours or more. For larger beams 21-in. concrete cover to steel gives 2 hours resistance: 4 hours or more may be obtained by an additional 1-in. vermiculite concrete, 1-in. vermiculite gypsum plaster or 1-in. sprayed asbestos.

15.135 materials: applied finishes, treatments SANDS

Building Sands from Natural Sources. BS. 1198, 1199, 1200:1955. (BSI, 3s.)
These three Standards are issued in one

volume and are designed as a companion to BS.882 and BS.201 (August, 1954) issued as Concrete Aggregates from Natural Sources.

The first, BS.1198, deals with sands for internal plastering and gypsum plasters including qualities and gradings for two types of undercoat and one type of finishing coat with or without lime. BS.1199 is concerned with external renderings and internal plas-terings with lime and Portland cement, whilst RS 1200 is devoted to sands for mortars.

British Standards, among other things, aim at consistency, and in this respect there have been difficulties in implementing the suppliers certificate clauses. Agreement with trade organizations has been reached and it is hoped that this will lead to wider testing at source.

15,136 materials: applied finishes, treatments CHLORINATED RUBBER PAINTS

Chlorinated Rubber Paints. BRS Digest No. 84. January, 1956. (HMSO. 3d.)

Chlorinated rubber paints (as distinct from rubberized paints and synthetic rubber or latex paints) are characterized by the replacement of oils and resins by chlorinated rubber. The special thinners used make it unadvisable to use these paints over paints of traditional type or vice versa; while the impermeable skin they produce and the consequent danger of blistering make it imperative that all traces of damp be removed from the surface to be painted.

15.137 materials: applied finishes, treatments PAINT COLOURS

Colours for building and decorative paints. BS.2660:1955. (BSI. 7s. 6d.)

An exceedingly important standard comprising a range of 101 colours for preferred use, set out on cards which have been specially designed for use by the architect. Discussed at length in technical article in JOURNAL for February 16, 1956. A "must" in every office.

16.120 materials: miscellaneous COLLIERY SHALE

Colliery Shale as Hardcore or Filling. BRS Digest No. 84. January, 1956. (HMSO.

Don't use colliery shale unless it is well burnt (i.e., red in colour); and even when it is, cover it with waterproof building paper to protect concrete against sulphate attack.

16.121 materials: miscellaneous MASTICS

Building Mastics. BRS Digest No. 82. (HMSO, Nov., 1955. 3d.)

The use of mastics is increasing, especially

as a joint filler between facing slabs of various kinds. There are few British Standards so clear thinking plus advice from manufacturers has to be relied upon for correct choice and application. This Digest is a general discussion of the problem and as such is useful for, though it does not help in giving definite recommendations of types to use for particular situations, it does state the basic requirements clearly.

16,122 materials: miscellaneous

MODERN BRICKMAKING

Modern Brickmaking. A. B. Searle (4th Ed. Ernest Benn Ltd. 90s.)

This book is probably as important to the shelves of a clayworks manager as is, say, the Encyclopædia Britannica to the shelves of any self-respecting library. The Encyclopædia contains almost everything of record and in the field of brickmaking so does Mr. Searle's book. Of the 734 pages architects come in after page 574 when such things as rustic, perforated, glazed bricks and hollow blocks are dealt with.

Fuel Ash bricks receive only 11 lines in this huge tome, but the book is worth looking at if only for such tips as can be found in chapter 19 on Uses for Waste Bricks: "Discoloured bricks may be set aside and, sometimes, with others, used as facing bricks. A highly profitable side-line has been developed by several brick manufacturers by this means among architects who are looking for 'new or unusual

18,176 construction theory STRUCTURAL DESIGN

Studies in composite construction—Part II. (HMSO. 1955. 5s.) Research paper of BRS dealing with the interaction of floors and beams in multi-storey buildings, of interest to architects and engineers.

Part I was reviewed two years ago in these columns and dealt with brick walls supported on reinforced concrete beams. It gave some fairly straightforward formulæ for bending moments and was quite a readable document. Part II has two opening chapters and a closing chapter which will give architects an insight to the objectives, the remaining seven chapters will only be appreciated by the engineer or mathematician. The work done on the problems of composite construction has included the study of stresses in the steel frames of large buildings and the observation of the stress history of the steel frame of a large office block during construction. Chapter II attempts to show the way in which stress relief is obtained and later chapters indicate the magnitude of this relief after recourse to mathematical analysis.

The following conclusions are formulated:

1. The nature of the problem, and the principal difficulty appears to be the determination of the reactions between the floor slabs and the beams. This has been shown to be a very similar problem to the distribution of reactions between walls and their supporting beams. The distribution of re-action between a beam and a floor slab undergoes remarkable changes for the same applied load, depending on the relative stiffnesses of the beam and the adjacent slab. Still further changes in the beam loads have been noted when either the beam or the reinforcement of the slab has yielded. It is not rational, therefore, to use a load factor for collapse design based on either assumed or measured loads of the beams under working conditions.

2. The principal features of composite

action can be demonstrated quite clearly when the deformation of the system is limited to bending and twisting of the slab and beam, and without involving overall tension or compression in the slab

3. Under the working loads, when the beams and slabs remain elastic, it has been found that it is possible to reach a state of affairs whereby on changing the size of a supporting beam there is little or no change of maximum stress in the beam. This ap-parent "freezing" of the stress has been called "Stress insensitivity" in this report. It implies that the deflection of the beam may well become the important considera-

tion at working conditions.

4. When the load is uniformly distributed over the floor slabs, and at a certain value of the beam/slab stiffness ratio, it is found that there is no twist in the slab anywhere (to a first order of approximation). Each strip of slab then behaves as an independent

5. It has been found that simple rules for the design of the beams might be based on the assumption that a certain proportion of the width of the slab can be assumed to act as though it were merely an additional beam joined to the supporting beam. Although this is a gross simplification it has so far given remarkably accurate estimates for the stress in the beams and deflection of the beams. It suggests that there is every possibility of producing simple design rules for composite structures in the future.

6. The rotational stiffness of the beams can be considerably increased by floor stiffening, and likewise, if the beams are encastered, the fixed end moments are altered. Both these effects influence the maximum stresses

in stanchions and their buckling loads.

7. Attempts to estimate the collapse loads of floor-and-beam systems have met with success when tested in the laboratory. the use of modern plastic theories it has been shown that the actual mode of col-lapse may undergo marked changes, depending on what beam section is chosen. Above a certain critical beam strength the beams will not collapse at all, under distri-buted floor loads, and independent slab failure occurs. It is usually a very simple failure occurs. It is usually a very simple matter to calculate the approximate collapse

load of the whole system.

8. A study of composite action reveals that, in a multi-storey building it may be pointless to undertake elaborate calcula-tions for the design of the bare frames. This does not imply that a careful analysis of the behaviour of the bare frame is unnecessary but that the calculations should

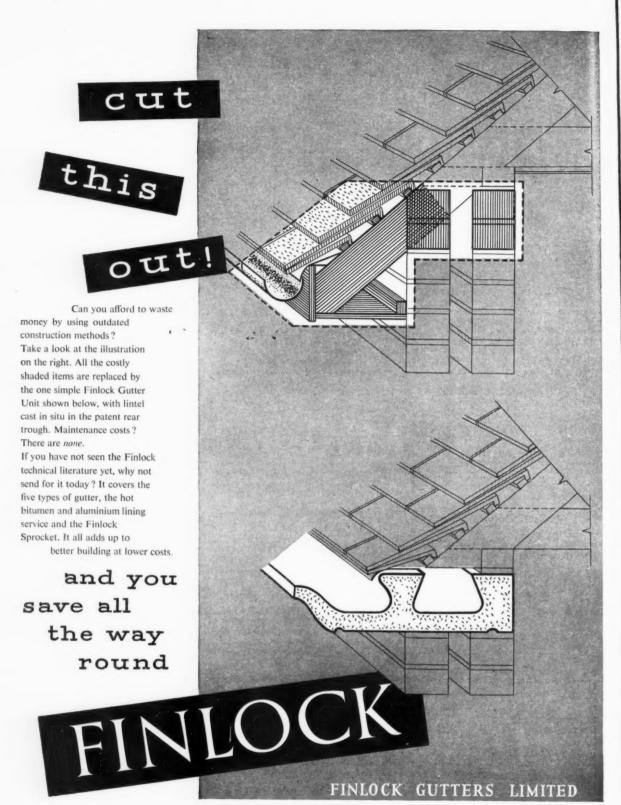
be concentrated on primary features only. Further research will be devoted to T-beam action between slabs and beams and catenary stresses in the slabs themselves. perimental verification of beam loads is required.

19.187 construction: details

DOMESTIC BUILDING CONSTRUCTION

Building Technique for Domestic and Similar Structures. Edwin Gunn. A.R.I.B.A. 3rd. Ed. revised by John Brandon-Jones, AA DIP., A.R.I.B.A. (Iliffe & Sons Ltd. 21s.)

This is a book which was first published in 1939 under the title "Building Technique." The author, who is a distinguished architect and writer of the country house period of English architecture, i.e., c. 1900-1930, records a lifetime's experience with traditional building. This experience has been "brought up to date" by John Brandon-Jones, mainly by the insertion of



Finlock House. Frant Road. Tunbridge Wells, Kent. Telephone: Tunbridge Wells 3396/9

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St O sh references to British Standards and BRS Digests and by the inclusion of useful little tables of costs. Mr. Gunn's approach to practical problems is admirable, and his manner of writing a model of architectural journalism. Unfortunately the change in building technique since the period about which he was writing, even when represented by a country builder handling traditional materials, is so fundamental that too many of these words of wisdom and of the drawings which accompany them will strike the reader as being obsolete.

19.188 construction: details

PRECAST, PRESTRESSED FLOORS

Precast Prestressed Floors. Robert Maguire. (The Architectural Review. Feb. 1956.)

A useful review illustrating and giving spans and loadings of all major varieties of proprietary prestressed beam units for use with and without a structural topping.

19.189 construction: details WOOD MOULDINGS

Wood Trim. BS.584: 1956. (BSI. 2s. 6d.) One of the most welcome signs in this new British Standard, which deals with mouldings and cover strips, is a return to better building and an observance of the older and well-tried methods of the craftsman. For example, larger skirtings (4¼ in. × 1⅓ in.) are included as the smaller wartime 3-in. plinths tended to warp, especially when under seasoned timber was used.

As for the craft of building, the practice of hollowing out the back face of mouldings seems to have been lost in the general tendency to produce cheaper buildings; it is, after all, an additional labour which the client cannot see and consequently does not really want to pay for. This hollowing consequently is reintroduced with BS.584, though it is difficult to see why it is restricted to mouldings more than 24 in. wide. Older architects will remember that the shallow gouging out of the back face prevents warping and gives better fixing to the plaster—it does in part stress the timber into position locking the wood tight against the plaster.

the plaster.

The standard only deals with the mouldings themselves and should be read in conjunction with BS.1186, Quality of timber and workmanship in joinery.

19.190 construction: details SILLS AND LINTELS

Sills and Lintels (Clayware, Cast Concrete and Natural Stone). BS. 1236-40: 1956. (BSI. 2s. 6d.)

These five Standards were first published in 1945, and at that time were confined to sills and lintels for use with casement windows and doors whether metal (as described in BS. 990) or wood (as described in BS. 644: Part 1). It is now extended to take wood sash windows (as described in BS. 644: Parts 2 & 3) into account, and metal casement windows and doors in wood surrounds to BS. 1285.

These Standards represent a useful codification of traditional practice (i.e. for 9 in. and 11 in. walls, rendered and plain). Inevitable bias towards practices of speculative builder, particularly as regards the inclusion of every form of bay window.

19.191 construction: details

WOOD STAIRS

Wood Stairs. BS. 585:1956. (BSI. 2s.)
Revision of Standard first published in 1944. Timber dimensions now give finished sizes instead of nominal sizes and systematic reference is made to the new BS. 1186: Part 2 on Quality of Workmanship in Joinery.

20.225 construction: complete structures SPACE FRAME

Unistrut Space-Frame System. Paul H. Coy and Leo M. Legatski. (University of Michigan Press. \$7.50.)

This is a useful reference for anyone interested in the pure maths of structures and consequently engrossed with the practical justification of their theories. publication sets out in the clearest and most logical fashion how the University of Michigan developed and tested Charles Attwood's Unistrut System, finally arriving at a structure capable of carrying a gravity live load of 60 p.s.f. This same structure withstood a wind load of 45 p.s.f. or an earthquake load equal to 30 per cent. of the roof and wall weights without distorting the frame. Connectors as usual provided the greatest difficulty, especially as the strut adopted was "U" sectioned 3 ft. 114 in. long. Experiments were made to find the most economical method of bolting the eight members which concentrate at every interior joint and finally a plate with four arms on one plane to take the horizontal members and four arms on the diagonals to connect the web members were evolved, each strut being fixed with a single nut and bolt. assembly proved to be self-aligning and the connector has withstood laboratory test loads in excess of 15,000 lb.

For further reference on Unistrut readers should see Architectural Forum, November, 1951, and L'Architecture d'Aujord'hui, April, 1954,

22.80 sound insulation and acoustics ACOUSTICAL PROPERTIES OF

Acoustical Properties of Carpets. Cyril M. Harris. Journal of the Acoustical Society of America. Vol. 27, No. 6, November, 1955.

This reports a typically thorough examination of the acoustic properties of carpet in an American Laboratory. The variations in sound absorbing properties with type of backing material (of the carpet itself), underlays, texture, fibre material, pile height, etc., etc., were examined. It appears that large differences in efficiency are caused mainly by different underlays. For example, an Axminster type carpet without underlay (on bare concrete) had an absorption coefficient at 500 c/s. of 0·15, but with a 40-oz. felt underlay the value rose to 0·55.

Average typical coefficients for a good quality carpet on a thick felt underlay are as follows:

125 250 500 1,000 2,000 4,000 c/s. ·07 ·23 ·48 ·51 ·58 ·65 which give a noise reduction coefficient of ·45.

22.81 sound insulation and acoustics

MUSIC ROOMS

Acoustics in Music School Buildings. R. N. Lane and E. E. Mikeska. Journal of the Acoustical Society of America. Vol. 27, No. 6, November, 1955.

The paper reports some useful data on the desirable sound insulation, acoustic properties and size of music school rooms, collected in four American Universities.

The measurements made coupled with an opinion survey, show that an average sound insulation value of 55 db should be provided between teaching studios. The value might be reduced to 50 db between rooms where students are primarily engaged in practising and the situation where a student or class needs a quiet background for critical listening or study next to a practice room, does not occur.

A number of typical wall constructions

A number of typical wall constructions are shown, all based on single or double leaf block walls with multiple linings of such materials as lath and plaster or plywood, and giving average insulation values of from 50 to as high as 78 db.

The best average reverberation time for practice rooms is 0.4 to 0.5 seconds with possibly a slight (but not excessive) rise in the low frequencies. These rooms have inevitably to be on the small side, and the advice given is to make them as large as is practically possible.

Teaching studios are said to be satisfac-

Teaching studios are said to be satisfactory if they are about 12 ft. by 20 ft. in plan, and should have some provision for diffusion of sound and an average reverberation time of between 0.55 and 0.65 seconds.

It is finally suggested that some simple means of varying the acoustics should be provided in teaching studios to allow for musicians individual preferences.

INFORMATION CENTRE

An alphabetical index covering Information Centre items and special articles published in the Technical Section during the twelve months ended December 31, 1955, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than May 14, 1956. This form will not be acknowledged.

Please send me the Information Centre Index for 1955:

Name (Block letters)

Address (Block letters)

AJ 12.4.56





Owing to heavy demand, supplies of facings of most types are booked for a long time ahead, and reservations for 1956/7 are now being made.

3 Ibstock Facings for "THE DIAL" NORWICH

Architects: Berry, Crane and Noble, F/F. R.I.B.A. Contractors: R. G. Carter Ltd. Bricks supplied through— The Builders Direct Supply Co. Ltd., Norwich.

Ibstock facing bricks have been used for several new licensed houses in the Norwich district. Main elevations of "The Dial" are in a multi-coloured hand-made Ibstock Golden-brown brick. Variations and contrast are provided by two other Ibstock shades—Light Buff rustics for panels between windows and Purple hand-made for plinth and dressings.

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THE INDUSTRY

From the Industry this week Brian Grant reports on an addition to a range of grid switches which were referred to in the JOURNAL for March 31, 1955, some glued laminated timber bowstring trusses which can be produced in standard designs for spans up to 150 ft. and a fluorescent tube which is partly coated with a special reflecting material.

ELECTRICAL SWITCHGEAR

The MK range of grid switches has already been referred to in these notes: this consists of a series of interchangeable one-way or two-way switches which can be mounted in standard boxes containing up to eight switches. To this range has now been added an intermediate switch, interchangeable with the other types, so that lamps can now be controlled as necessary from more than two positions. Prices are 61s. 4d. per dozen in brown, 63s. 4d. in ivory. The same firm has also recently produced a leaflet (No. 229) which, though quite modest in its aims, is a useful guide to the specification of electrical accessories in housing schemes, and contains, among other things, a clear explanation of the ring main circuit and its advantages. Suitable accessories are also listed. with notes on the requirements of individual rooms. (M.K. Electric Ltd., Wakefield Street, Edmonton, London, N.18.)

MK intermediate switch in the 'gridswitch' range.





Glued laminated bowstring trusses by The Rainham Timber Engineering Co.

GLUED LAMINATED BOWSTRING TRUSSES

The Architects' Journal for April 12, 1956

A recent pamphlet from The Rainham Timber Engineering Co. illustrates glued laminated timber bowstring trusses which can be produced in standard designs for spans up to 150 ft. The trusses are designed in accordance with CP.112 and urea-formaldehyde gap-filling glues are used complying with BS.1204. Laminated timber has the advantage that individual members can be built up to almost any length and size, and as knots, shakes or cross grain are not superimposed in successive layers, the Code of Practice allows higher stresses than in natural timber. In these trusses the laminated members are used only where greater strength is essential, verticals and diagonals and sometimes the bottom chords being in natural timber. Connectors are used for all joints except where bolting gives adequate strength.

These trusses compare favourably in cost with standardized steel or concrete units of the same strength, and are considerably cheaper than specially designed trusses. The cost of the complete building is further reduced, as site assembly is easy and the roof covering can be nailed direct to the purlins and hook bolts are unnecessary. while insulating board is also simple to fix. The manufacturers, who are members of the Phoenix Timber Group, maintain a full engineering staff which will design any type of timber structure. (The Rainham Timber Engineering Co. Ltd., Frog Island, Rainham, Essex).

FLUORESCENT LAMP DEVELOPMENTS

The various members of the Electric Lamp Manufacturers Association have recently introduced a new 4-ft. fluorescent tube which incorporates its own reflector. The upper two-thirds of the inner surface of the tube is coated with a special reflecting material so that the light output is reflected downwards over an arc of 120 degrees and a separate reflector is not necessary. When these lamps are used with fittings having comparatively little directional control they provide nearly twice as much light on the working plane as the conventional lamp: they will also reduce dazzle in shops, where it is common practice to mount lamps vertically at the sides of windows and display cases. The price of the lamps is 13s. 9d. plus 2s. 10½d. purchase tax, and they are interchangeable with the standard 4-ft. lamp, having the same rating of 40 watts. (Electric Lamp Manufacturers' Association, 25, Bedford Square, W.C.1.)

Readers requiring up-to-date information on building products and services may complete and post this form to the Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1

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Buildings Illustrated

Sports Pavilion, Stirling Corner, Barnet by-pass, Barnet, Herts., for the Finsbury Borough Council. (April 5, pages 313-316.) Architects: Sudell & Waters, P.I.L.A., A.R.I.B.A. (Richard Sudell, P.I.L.A., landscape and executive architect, D. H. Gillies-Reyburn, A.R.I.B.A., A.I.L.A., D. Tennyson Waters, A.R.I.B.A., architects). Quantity Survevor: Gordon Fanshaw. General Contractors: Townsend & Collins Ltd. (building construction) and Doe & Sons Ltd. (landscape work and sports fields). Sub-contractors (structure):-Steel reinforcement: Helical Bar & Engineering Co. Ltd. Heating and ventilation: G. M. Haden & Sons Ltd. Asphalt: Paramount Asphalte Flooring Co. Ltd. Electrical installation: Electengs Ltd. Electrical fittings: Utility Lamp & Fittings Co. Ltd. Bituminous felt roofing: William Briggs Ltd. Thermoplastic tiling: Marley Tile Co. Ltd. Hardwood flooring: Hollis Bros. Ltd. False ceilings: Sundeala Board Co. Ltd. Metal work and balustrades: Clark, Hunt & Co. Ltd. Metal windows and doors: Henry Hope & Sons Ltd. Sanitary fittings: B. Finch & Co. Ltd. Doors: Jayanbee Joinery Ltd. Ironmongery: Broad & Co. Ltd. Fire fighting apparatus: Merryweather & Sons Ltd.

Announcements

Copperad Ltd. announce that the telephone number at their Head Office and Works at Colnbrook has been changed to Colnbrook 521.

Matthews & Yates Ltd., makers of Cyclone fans and fan equipment, have opened a new Branch Office at Jacey House, The Lansdown, Bournemouth. (Tel.: Bournemouth 2493.) J. R. Barlow will be in charge, and A. T. Barlow will take charge of their Birmingham branch.

The Sheffield Branch of British Insulated Callender's Cables Ltd. has moved to 87. Spital Hill, Sheffield, 4. (Tel.: Sheffield 24251.)

Thermodare (Great Britain) have moved to larger offices at 94/98, Petty France. (Tel.: ABBey 6586/7/8.)

D. K. Coutts, M.Sc., A.R.I.C., has been appointed Manager of the Technical Office of The Mond Nickel Co. Ltd. in Bombay. He succeeds J. McNeil, whose death occurred recently.

Stramit Boards Ltd. will not increase the price of their tank lagging units (for the insulation of cisterns and tanks) for six months. The price of roofing and partition grade Stramit building slabs will be "pegged" for the same period.

The London offices and stores of J. A. Crabtree & Co. Ltd., Walsall, have moved to 230, Tottenham Court Road, W.1. (Tel.: LANgham 6756.) The Manchester office has moved to Lincoln House, 16, Lloyd Street, Manchester. 2.

Edward Ormesher, A.M.I.STRUCT.E., has retired from Henderson Sliding Door Gear after 30 years as Northern technical representative. He is succeeded by his son, John Ormesher, and Frank Thomas.

Carricks (London) Ltd. have established a Sales Division at 44, Tower Hill, London, E.C.3 (Tel.: ROYal 1461). This will handle the increased business of their Hedetaire Industrial Space Heater Unit. The Manchester Office of Brightside Heating & Engineering Co. has moved to 105-107, Princess Street, Manchester, 1. (Tel.: Central 4377.)

The Federation of Clinker Block Manufacturers has appointed A. H. Wardle as Technical Officer/Secretary in place of L. W. E. Rowbotham who has resigned.

Denis H. Reid has been elected Director with duties as Assistant to the Managing Director of D. Anderson & Sons Ltd.

PROFESSIONAL

S. Lothian Barclay, A.R.I.B.A., has taken over the practice of James W. Reid, A.I.ARCHTS(SCOT.), as the latter has retired from active business due to ill health. The practice will continue under the same name at 79, West Regent Street, Glasgow, C.2, where Mr. Barclay will be pleased to receive trade literature.

The association between Alan Reiach, A.R.I.B.A., and Ralph Cowan, A.R.I.B.A., has been dissolved by mutual consent, except for their joint work on the new Edinburgh and East of Scotland College of Agriculture, owing to Mr. Cowan taking up the appointment of Head of the School of Architecture, Edinburgh College of Art, and Mr. Reiach relinquishing his teaching appointment.

H. Edgar Bell, A.R.I.B.A., has relinquished his appointment with the East Suffolk County Council, and has entered into private practice at 6, Goyfield Avenue, Felixstowe, Suffolk, where he will be pleased to receive trade catalogues. (Tel.: Felixstowe 950.)

Anthony Cave-Browne-Cave, A.R.I.B.A., has commenced practice at 17, Greenhill Street, Stratford-upon-Avon (Tel.: Stratford-upon-Avon 3209), where he will be pleased to receive trade catalogues.

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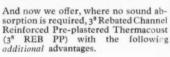
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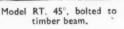
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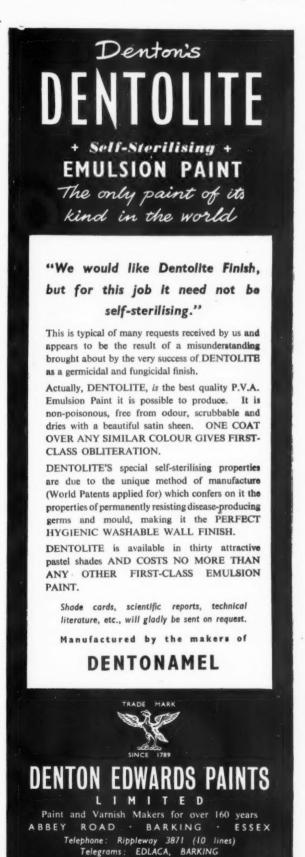




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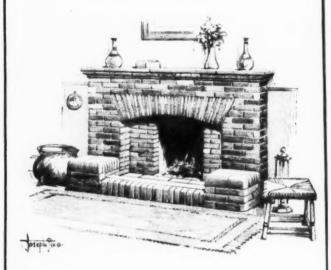
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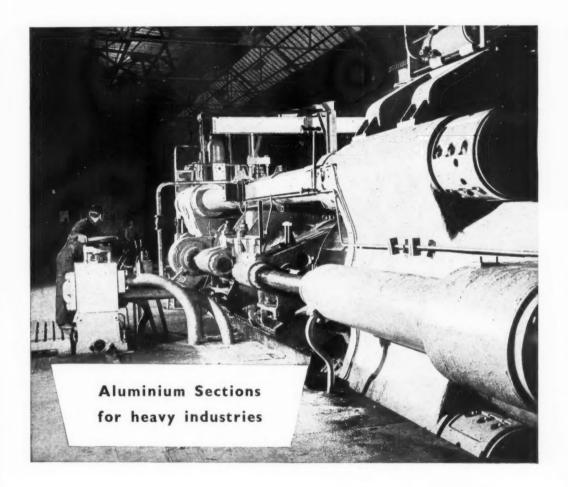
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* The latest catalogue of original Claygate fireplace designs is profusely illustrated and contains all essential information for architects. A copy will be sent free on request, and quotations for special designs readily supplied. Ask also for details of the Claygate Stone Fireplaces.

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Claygate

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Two additional extrusion presses, one of 5,000 tons and the other of 3,500 tons, have been installed at the Latchford Locks Works of the British Aluminium Company. These presses represent an important extension to the extrusion capacity of the aluminium industry in this country. They will be used to produce a wide range of sections for the road transport, building, ship-building and structural and general engineering industries.

Extrusions are available in sizes up to 13½" circum-circle and are specially designed to facilitate the

economic use of aluminium in riveted or welded assemblies.



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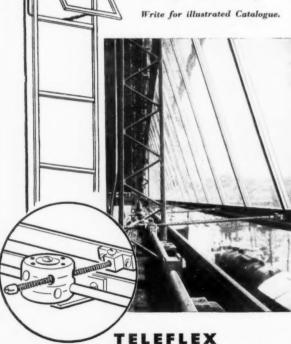
NORFOLK HOUSE ST LAMES'S SOUARE LONDON SWI

A P138, 1967



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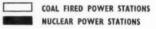
1955
TOTAL
GENERATING
CAPACITY
20,000 MW

20,000 MW

1965
TOTAL
GENERATING
CAPACITY
35-40,000 MW

10-15,000 MW

45-50,000 MW



20 years' development programme

Britain's nuclear power station construction programme provides for twelve such stations to be built at a cost of some £300 million in the next ten years.

The First Ten Years

Work will start on the first two nuclear power stations in 1957. These will each have two gas-cooled reactors and the stations will be in operation by 1960/61. Two further gas-cooled reactor stations—each housing two reactors of improved type—to be begun in 1958/9 will come into service by 1963. The output of these four stations will be between 400,000 and 800,000 kilowatts,

The construction of two groups of four stations each will begin in 1960 and 1961/2 and they will be supplying electricity to the Grid by 1963/4 and 1965 respectively. The first group of stations will probably have one gas-cooled reactor each. The second group will probably utilise liquid-cooled reactors — one high rated reactor each. These stations will add well over 1,000,000 kilowatts to the nation's power resources.

The Second Ten Years

By 1975, it is anticipated that nuclear reactor power stations in Britain will have an aggregate installed capacity of between 10,000,000 and 15,000,000 kilowatts; and about half the national consumption of electricity will be derived from nuclear energy.

7 YEARS' PROGRESS 50 NEW POWER STATIONS
10.000.000 ADDITIONAL HORSEPOWER INSTALLED



An Important Improvement

HOT WATER TANKS

N keeping with their progressive policy, and to meet the requirements of the Building Industry, Harveys have designed a new type of Manhole and Cover for HARCO' HOT WATER TANKS.

The main advantage of this development is that of preventing the thread of the bolts from coming into contact with water, thereby avoiding corrosion—and the consequent risk of shearing the bolt heads—and greatly facilitating removal of the cover for servicing.

Patent No. 664463.

This is achieved by securing the heads of

> No hemp, red lead or other jointing material is required when fixing the cover, other than

the bolts inside the tank, so that the screwed portion projects outside.



the India Rubber Ring which is supplied with the This ring, together with the grummets fitted under the bolt heads inside the tank, enables a perfect seal to be made in much less time.

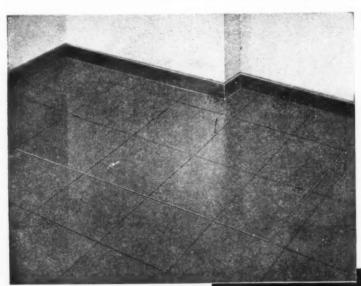
The cover itself is slightly convex to give additional strength, and the turned-over edge of the manhole presents a smooth rounded surface which cannot injure the hands or arms when installing the tank.

Ask for List No. AI873.

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Please obtain your supplies through your usual Builders' Merchant or Ironmonger.

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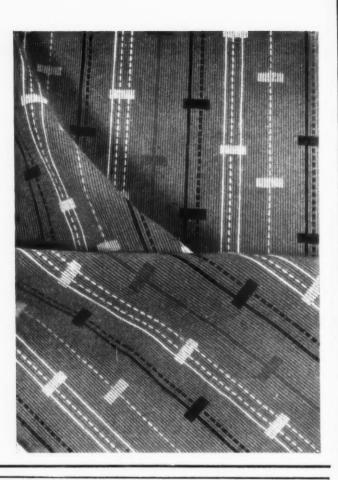
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8' 10' 12' 15' 20' 25' 8 30' WIDE



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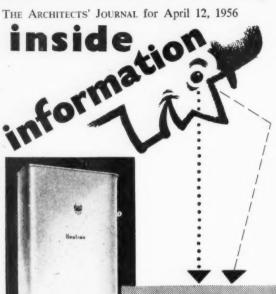
provide shelter for OTHER BUSY WORKERS

PLEASE WRITE FOR CATALOGUE AND QUOTATION GIVING DETAILS OR DRAWING OF BUILDING REQUIRED TO:-

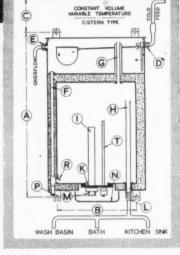
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Quickly!





- C Top of heater should be at least 6in. from ceiling to give proper access to ball valve cistern.
- D Ball valve to BSS.1212: interchangeable seatings.
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- G Vent or expansion pipe.
- H Hot water delivery pipe.
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- M Main terminals for supply
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Internal arrangement of standard model F.B. cistern type Electric Water Heater

Heatrae F.B. cistern type Electric Water Heater is a complete hot water system in itself. It has its own ball valve cistern, expansion pipe and overflow con-nection. Temperature is automatically controlled.

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Tested to 5,200 lb. per square inch, hydraulic and still sound.



All castings gunmetal—water-tested.



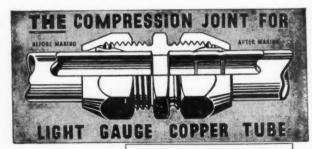
Can be made and remade any number of times.

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Hanlo is acknowledged by Municipal Authorities and leading Contractors to be the best Compression joint available—the sales figures prove it too!

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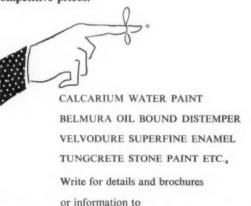
L.G.B.

You never can tell what your thoughts will do In bringing you hate or love, For thoughts are things, and their airy wings Are swift as a carrier dove. They follow the law of the universe-Each thing must create its kind, And they speed o'er the track to bring you back Whatever went out from your mind.*

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NOTICE IMPORTANT TO ARCHITECTS

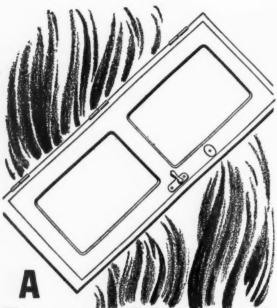
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Capital Sums plus bonuses and a tax-free income to your wife and family in the event of your death before 65.

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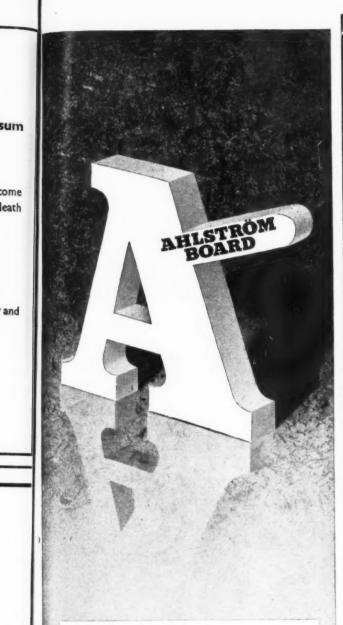
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Manufactured by A. AHLSTRÖM OSAKEYHTIÖ, FINLAND

"So I says to him, I says...



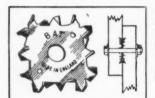
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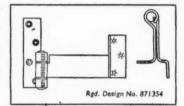
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Modern structural timber design calls for the use of BAT Timber Connectors. Joints are doubled in strength. Timber sections are reduced. Rigidity is increased and weight saved by simplified designing.

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Special feature is the Arm Design which allows for interchangeability with the STORM-PROOF Butt Hinge fitting. Other types include the B.J.M.A. Hinge to BS644 and a light type.



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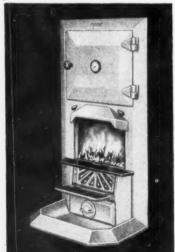
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The combined Exhibition will be held from the 29th May to the 13th June. The emphasis this year will be on building and farm machinery equipment, wine cellar and bottling machinery manufacture. Refrigeration equipment of all types will also be prominent as the Fair is the venue for the 5th International Refrigeration Congress.

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Padua is the ideal place to combine a holiday with a business trip. It is 25 minutes from Venice and just under two hours from the Dolomites and Lake Garda. There is ample accommodation of a high standard in

You can obtain full particulars regarding any aspect of the Fair from Auger & Turner Group Ltd., 40 Gerrard Street, London, W.I. (Telephone: Gerrard 6671.)



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- crossed braced for strength and rigidity, or in exterior grade Mahogany Plywood, with grained finish to take varnish or paint.
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The Ancients personified Fate by the Three Sisters; Clotho, Lachesis and Atropos, who sat spinning the thread of each man's destiny, ruthlessly cutting it as the whim took them. Although the modern mind has abandoned this picturesque image of Fate, it believes in providing for every contingency through personal and corporate insurances.

In the business and professional world the name "Legal and General" has long been associated with almost every aspect of insurance; it has always been foremost in bringing to the service of industry and thegeneral public, new and improved insurance cover.

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GROUP AND MASTER POLICIES COVERING ALL FORMS OF PENSION AND LIFE ASSURANCE SCHEMES, OR ENDOWMENT PENSION SCHEMES INCOME POLICIES MONTHLY PRIMITY LIFE ASSURANCE ENGINEERING GROUP PERSONAL ACCIDENT FIRE AND CONSEQUENTIAL LOSS HOUSEROLDER'S COMPREHENSIVE PUBLIC LIABILITY AND TON THE PUBLIC LIABILITY AND THE PUBLIC LIABILIT

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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's

paper.
Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

Public and Official Announcements

Tablic and Official Announcements

25s. per inch: each additional line, 2s.

The engagement of persons answering there advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Bmployment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she or the employment as excepted from the provisions of the Notification of Vacancies Order, 1962.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

Applications are invited for .—

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

Applications are invited for:—

(a) ARCHITECTURAL ASSISTANT (PERMANENT), Grade A.P.T. II, i.e., £996—£675 p.a.;

(b) SENIOR ARCHITECTURAL ASSISTANT (TEMPORARY), Grade A.P.T. IV, i.e., £710—£885 p.a., plus London weighting in both cases, 21-25 years £20 p.a., 26 years and over £30 p.a. Candidates for (a) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with a local authority; (b) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works, and capable of supervising large building contracts. The Council is unable to provide housing accommodation for either of these appointments. Further particulars and form of application available from the undersigned, which when completed must be returned as soon as possible.

GEORGE HOOPER,

Town Hall, Hayes, Middx.

THE LONDON HOSPITAL, Whitechapel, E.1.

Town Hall. Hayes, Middx.

THE LONDON HOSPITAL, Whitechapel, E., requires JUNIOR ARCHITECTURAL ASSISTANT, salary £440 to £55 p.a. according to experience, plus London weighting. Post superanuable, Applications, stating age, present salary and brief particulars of experience, to be sent to the House Governor. Accommodation is available in Kensington if successful candidate is a woman.

to the House Governor. Accommodation is available in Kensington if successful candidate is a woman.

ARCHITECT TO THE LONDON COUNTY COUNCIL

Applications are invited for appointment from October 1956 as ARCHITECT TO THE LONDON COUNTY COUNTY COUNCIL, at a salary of 24,500 a year. The position is permanent and pensionable. The Architect to the Council is responsible for the design, erection and maintenance of most of the architectural work required by the Council and also advises the Council on town planning matters. Full particulars and application forms (which must be returned by Friday, 20th April, 1956) are obtainable from the Clerk of the Council (CL/G) County Hall, Westminster Bridge, S.E.I. 3999 9430

CITY OF CANTERBURY
Applications are invited for the following additional appointments:

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (2710-4885).

(b) ARCHITECTURAL ASSISTANTS, Grade A.P.T. IV (2710-4885).

Candidates for position (a) must be Associates of the R.I.B.A. be competent designers with a contemporary outlook and have some experience of School building.

The successful candidate will be engaged on the design and erection of a New Technical College. Applicants for positions (b) must have passed the R.I.B.A. Inter. Examination and will also be engaged on school building projects.

The commencing salary for all positions will be fixed within the Grades according to ability and experience.

fixed within the Grades according to according experience.

Applications, together with names of two referees, must reach the City Architect and Planning Officer, Mr. L. Hugh Wilson, O.B.E., A.R.I.B.A., Dist.T.P., A.M.T.P.I., not later than the 19th April, 1986

Canvassing will disqualify.

J. BOYLE,

Town Clerk.

Municipal Buildings,
Canterbury.

OUNTY COUNCIL OF THE WEST RIDING
OF YORKSHIER
OFFICE OF THE COUNTY ARCHITECT
Applications are invited for appointment in
the grades shown below, the salary ranges of
which are:

A.P.T., IV (£710-£885).
A.P.T., IV (£710-£790).
A.P.T., V(£710-£790).
A.P.T., VI (£880-£1,080).
Applicants for these posts should be Registered
Architects and Associate Members of the Boyal
Institute of British Architects, and have had good
training and experience in the design and construction of modern buildings.
Extensive and interesting programme of firstclass architectural work, with opportunities for
taking responsibility and supervising work in
progress.

Hubert Bennett, F.R.I.B.A.
County Architect's Office, Bishopgarth,

Progress.

HUBERT BENNETT, F.R.I.B.A.
County Architect's Office, Bishopgarth,
Wakefield.

948

CITY AND COUNTY OF THE CITY OF EXETER

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT on the establishment of the City Architect's Department; salary range between £690 and £385 per annum, according to experience.

Applicants must be Associate Members of the R.I.B.A. or hold equivalent qualifications, and preference will be given to those experienced in the design and construction of schools and civic buildings.

The appointment will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts, 1937-1953. The successful applicant will be required to pass a medical examination.

Canvassing will disqualify, and applicants must disclose whether, to their knowledge, they are related to any member of the Council or to the holder of any senior office under the Council.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience and the earliest possible date when available, should be sent to H. R. Rowe, F.R.I.B.A., A.M.I.Struct.E., City Architect, Municipal Offices, Exeter, within 14 days of the publication of this advertisement.

Exeter.

March, 1956.

Exeter. March, 1956

March, 1956.

SURRRY COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for permanent appointments for ARCHITECTS and QUANTITY SURVEYORS:

(a) A.P.T. IV-VI. Minimum £710, maximum £1,030, plus £30 London allowance, per annum.

(b) A.P.T. I-III. Minimum £530, maximum £765, plus London allowance £20.£30, according to age.

age.
Salary range of appointment and commencing salary will depend on experience and qualifications. age.

tions.

Applications, with two testimonials, to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, as soon as possible. 9446

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATIONS
ASSISTANT QUANTITY SURVEYOR
Applications are invited for the appointment of Assistant Quantity Surveyor, at the grade £835-£750 per annum.
Applicants should be experienced in taking off quantities and in the preparation of Bills of Quantities, Estimates, Certificate Valuations, and Final Accounts for all types of buildings.
Preference will be given to Members of the Royal Institution of Chartered Surveyors.
The appointment is superannuable and terminable by one month's notice on either side.
The successful applicant will be assisted in obtaining housing accommodation, if required.
Applications, giving age, qualifications, and rull details of present and past experience, salaries and appointments held, together with the names and addresses of three persons to whom reference may be made, should be addressed to the General Manager, at 4. Wigmore South, Welwyn Garden City, Herts, and received not later than 1st May, 1956.

HUNTINGDONSHIRE COUNTY ARCHITECT'S DEPARTMENT
Applications are invited for the following appointments:—
(a) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. VI (£380-£1,080),
(b) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. IV-V (£710-£970),
(c) SENIOR ARCHITECTURAL ASSISTANT, A.P.T. IV (£710-£985),
(d) ARCHITECTURAL ASSISTANT, A.P.T. II-III (£595-£765),
Appointments could be made within these grades subject to qualifications and experience. Further details and application forms may be obtained from The County Architect, County Buildings, Huntingdon. Completed application forms should be forwarded by Wednesday, 25th Appil, 1956, to the undersigned.
A. C. AYLWARD,
Clerk of the County Council.
County Buildings, Huntingdon. 9542
LINDSEY (LINCOLNSHIRE) COUNTY

County Buildings, Huntingdon.

LINDSEY (LINCOLNSHIRE) COUNTY
COUNCIL

(a) TWO ASSISTANT ARCHITECTS, Grade
A.P.T. V and VI (£795—£1,080), to work on major
projects. Must be A.R.I.B.A. or Registered
Architect.
(b) TWO ASCHITECTURAL ASSISTANTS,
Grade A.P.T. II (£595—£675), Inter. R.I.B.A.
(c) ONE ELECTRICAL ENGINEERING
ASSISTANT, Grade A.P.T. III (£640—£765).
Should be capable of preparing drawings in
connection with Electrical Installations in
Schools, Higher National Certificate required.
In special circumstances consideration will be
given to starting salary not more than two steps
up the grade.

N.J.C. Conditions of Service. Canvassing will
disqualify. Candidates must disclose in writing
whether to their knowledge they are related to
any member or senior officer of the Council.

Applications, giving age, qualifications, experience, present salary, and the names of at least
two persons to whom reference can be made, to
be sent not later than 24th April, 1956, to the
County Architect, County Offices, Lincoln. 9561

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CITY OF LEICESTER
CITY ENGINEER'S AND SURVEYOR'S DEPT
MAINTENANCE SECTION
Applications are invited for the appointment of
MAINTENANCE ASSISTANTS in the City Suveyor's Department, in Grade A.P.T. III to veyor's Department, in Grade A.P.T. III to veyor's Department will be subject to the provision of the Local Government Superannuation
Act, 1937.
Applicants should have

Act, 1937.

Applicants should have a good knowledge and be fully experienced in the maintenance of public buildings, preparation of plans, age fications, estimating and schedules, etc. Previous Local Government experience would be an advantage.

vious Local Government experience to a salar advantage.

The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, training and experience, together with the names of not less than two persons to whom reference may be made, should reach the undersigned not later than Saturday, 5th May, 1965.

The Council are unable to assist with housing accommodation.

JOHN L. BECKETT, M.Inst.Mun.E.,

M.Inst.Mech.E., M.Inst.Mun.E.,

City Surveyor.

Town Hall, Leicester.

City Surveyor

Town Hall, Leicester.

COUNTY BOROUGH OF BIRKENHEAD

BOROUGH ARCHITECT'S DEPARTMENT
Applications are invited from suitably qualified
persons for the following posts:—

(a) THREE ARCHITECTURAL ASSISTANTS,
Grade A.P.T. IV (£710—2835).

(b) ONE JUNIOR QUANTITY SURVEYING
ASSISTANT, Grade General Division (£180—2620)/Higher General Division (£180—2620).

The above appointments are superannuable, subject to satisfactory medical examination and to one month's notice on either side.

Forms of Application and further particulars obtainable from Borough Architect, No. 3, Conway Street, Birkenhead.

Closing date for applications—23rd April, 196,
DONALD P. HEATH.

Town Clerk.

9556

Town Hall, Birkenhead.

NATIONAL COAL BOARD
NORTH-EASTERN DIVISION
Applications are invited for the following appointments in the Department of the Divisional Chief Architect, situated at Conisbrough, near Doncaster:—
ARCHITECTS
AND QUANTITY SURVEYORS, Grade II.
(Salary scale: £700×£30 to £1,000 per annum.) Qualifications: A.R.I.B.A. and A.R.I.C.S.
ARCHITECTURAL AND QUANTITY SURVEYING ASSISTANTS, Grade I.
(Salary scale: £625×£25 to £750 per annum (and up to £900 per annum in special circumstances.))

(and up to £990 per annum in special circumstances.)

Qualifications: Intermediate R.I.B.A. and Intermediate R.I.C.S.

ARCHITECTURAL AND QUANTITY SURVEYING ASSISTANTS, Grade II.
(Salary scale: £520×£20 to £615 per annum.)

Qualifications: Preferably as above, or studying for such examinations.

JUNIOR ARCHITECTURAL ASSISTANTS.
(Salary scale—according to age: £4 5s. per week at 18 to £8 15s. at 25.)

Full details and application forms obtainable from J. A. Dempster, F.R.I.B.A., Chief Architect, P.O. Box No. 4, Denaby, near Doncaster. 9559

WESTMINSTER CITY COUNCIL requires JUNIOR ARCHITECTURAL ASSISTANT (MALE). Starting salary according to age and qualifications, not less than £350 at age 20, rising to maximum £675 per annum (plus London weighting, max. £30 p.a.).

Duties include surveys, drawings and specifications for building alteration works. Applicants must have passed or be studying for the examination of either R.I.C.S. (Building) of R.I.B.A.

R.I.B.A. Applications, detailing experience, etc., with Applications, detailing experience, etc., with Copy testimonial, to Town Clerk, City Hall Charing Cross Road, W.C.2, by 25th April, 1966-955

WEST SUPPOLK COUNTY COUNCIL COUNTY PLANNING DEPARTMENT AREA PLANNING OFFICER for Bury St. Edmunds Area required. Salary within A.P.T. Grade IV (£710×£35-£885). Applicants should have passed the Final Examination of the Town Planning Institute or hold a Diploma of a recognised school. N.J.C. service conditions; car allowance; post pensionable; medical examination

recognised allowance; post pensionable; means allowance; post pensionable from J. M. Gorst. M.T.P.I., A.M.I.Mun.E., County Planning Officer. Shire Hall, Bury St. Edmunds, to be returned by 28th April, 1956.

ALAN F. SKINNER,

Clerk of the County Council.

9560

UNIVERSITY OF OXFORD following Application

Applications are invited for the following appointment:—
ARCHITECTURAL ASSISTANTS, of about Intermediate standard, with some knowledge of modern building construction. Salary £530.
Varied and interesting work. Generous leave. Apply for further particulars, stating age, experience and training, to the Surveyor to the University, 5, South Parks Road, Oxford.

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TEMA DEVELOPMENT CORPORATION,
The Corporation, established by Ordinance and charged with the development of a new town for 80,000 inhabitants, invites applications for the post of EXECUTIVE ARCHITECT from Architects who must be Associates of the R.I.B.A. or have equivalent qualification, and not less than 6 years' post-graduate experience. Applicants must be at least 32 years of age and have experience in the organisation and control of large scale building contracts.

Duties: Successful candidate will be required to assist the Chief Architect and Town Planner, and expected to assume special responsibility under the Chief Architect and Town Planner for (a) programming of work, (b) advice on working drawings, specifications, contracts, and supervision of work, (c) general administration.

Terms of Appointment: Contract for two tours of 12/24 months, depending on age. Salary in range £1,600×£60—£2,020, according to experience, plus gratuity at rate of £12 10s, for each month's service, including leave or Contributory Pension Scheme now under consideration. Leave at end of each tour 7 days' full pay for each month's residential service. Free passages on appointment and leave for officer, wife and up to three children under 13 years of age. Other details at interview. Apply to The Secretary for Recruitment, Gold Coast Office, 13, Belgrave Square, London, S.W.I. for a form of application.

London, S.W.I., for a form of application. 9567

COUNTY OF CORNWALL

APPOINTMENT OF PLANNING ASSISTANT
Applications are invited for this appointment in the Western Area Planning Office, Penzance, with salary within A.P.T. III, £640—£765.

Candidates must have passed the Intermediate Examination of one of the Professional Institutes, and preference will be given to candidates with Inter. T.P.I. They must also have a thorough knowledge of the Town and Country Planning Acts and Regulations thereunder, and be well experienced in development control.

The customary service conditions of the Local Government service will apply, and the successful candidate will be required to pass a medical examination.

Applications, together with the names and addresses of three referees, should be addressed to the Country Planning Officer, County Hall, Truro, to reach him not later than 28th April, 1966. (No application forms are being issued.)

E. T. VERGER.

Clerk of the Country Council.

County Hall, Truro.

County Hall, Truro. 4th April; 1956.

4th April. 1956.

SPALDING RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT required. Salary A.P.T.. Division II of National Scale (commencing £595 p.a. and rising to £675 p.a.). Medical examination. Superannuation. Canvassing will disqualify. Council house in the rural district available for letting. Applications with names of three referees to the Clerk to the Spalding R.D.C., Priory Road, Spalding. 9574

COUNTY BOROUGH OF SUNDERLAND Applications are invited for:—
CHIEF ASSISTANT QUANTITY SURVEYORS, A.P.T., Grade VI (£880—£1,080).
SENIOR ASSISTANT QUANTITY SURVEYORS, A.P.T., Grade V (£795—£970).
SENIOR ASSISTANT ARCHITECTS, A.P.T., Grade V (£795—£970).
ASSISTANT ARCHITECTS, A.P.T., Grade IV (£710—£885).
Commencing salaries will be fixed according to experience.
Particulars of the respective appointments may be obtained from the Borough Architect, Grange House, Stockton Road, Sunderland.
Applications must be addressed to me and received at my office, Town Hall, not later than 25th April, 1956.
Canvassing will disqualify.

G. S. McINTIRE,

Town Clerk.

9573

UNIVERSITY OF HONG KONG Applications are invited for the following

Applications are invited for the following posts:—

(a) SENIOR LECTURESHIP IN ARCHITECTURE. Salary (superannuable) £2.000 × 275— £2.300 (man) or £1,500 × 260—21,740 (woman) a year, together with an expatriation allowance of £250 a year if applicable.

(b) LECTURESHIP IN ARCHITECTURE. Salary (superannuable) £1,575×£50—£2,175 (man) or £1,200 × 240—£1,680 (woman) a year, together with an expatriation allowance of £225 a year if applicable.

The equivalent of income tax in the Colony is comparatively low.

Applicants must be qualified Architects, and should have had practical and teaching experience.

ence.
First-class sea passages are provided for expatriate staff and their families on first appointment and leaves.
Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 36, Gordon Square, London, W.C.I.
The closing date for the receipt of applications, in Hong Kong and London, is 30th April, 1956

BOROUGH OF TWICKENHAM
Applications are invited for the following posi-

(a) ENGINEERING ASSISTANT, Special Classes (£590—£940), or A.P.T. (£640—£765). (b) ARCHITECTURAL ASSISTANT, Special Classes (£690—£840), or A.P.T. (£640—£765). (c) JUNIOR ENGINEERING ASSISTANT, A.P.T. II (£555—£675). (d) TWO DRAUGHTSMEN, H.G.D. (£350—£500).

(d) TWO DRAUGHTSMEN, H.G.D. (£350-£550).

All plus London weighting allowance. The salary grade for (a) and (b) will be according to qualifications. Candidates for (c) should have passed the Inter. Examination of an appropriate Engineering Body, and for (d) previous experience is essential. Applications, stating qualifications, experience, age, etc., and giving the names of two referees, must be received by the Borough Engineer, Municipal Offices, Twickenham, by 28th April, 1956. N.J.C. conditions will apply, and superannuation payable. Canvassing will disqualify. An applicant who is related to a member of the Corporation or to a senior officer must disclose the fact in the application.

W. H. JONES,

Municipal Offices, Twickenham.

Municipal Offices, Twickenham.

29th February, 1956.

CITY OF LANCASTER

ASSISTANT QUANTITY SURVEYOR required.
Varied programme of work. Housing accommodation, if required. A.R.I.C.S. (Q.S. Section).
Permanent pensionable post. Salary, Grade V (£795 × £35 – £970).

Applications to reach L. Lyons, B.Sc., City Engineer, Town Hall. Lancaster, by Monday, 30th April, 1956, stating age, qualifications, experience, etc., and names of two referees.

J. D. WADDELL,
Town Clerk.

J. D. WADDELL,
Town Hall, Lancaster.
4th April, 1956.

BOROUGH OF SOLIHULL
CLERK OF WORKS, A.P.T., GRADE II
(£555 × 220-675).

Applications are invited for the above appointment in the Architect's Section of the Borough Engineer and Surveyor's Department, where an additional Clerk of Works is needed for the supervision of the erection of new schools.

Applicants should have been apprenticed in the building trade and have had considerable experience as craftsmen and general foremen.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, the National Scheme of Conditions of Service, and one month's notice on either side.

Housing accommodation may be made available to the successful applicant if married.
Applications, giving full details as to age, present position and salary, qualifications and experience, together with the aames and addresses of two referees, should be delivered to the Borough Engineer and Surveyor at the above address not later than Tuesday, 17th April, 1956.

W. MAURICE MELL.

Town Clerk.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD
ASSISTANT QUANTITY SURVEYOR required. Applicants should be Associate Members of the R.I.C.S. and be thoroughly experienced in taking-off, abstracting and billing of quantities, measurement of work in progress, and settlement of final accounts.

Salary scale: \$640.825 (4) × 630 (4) × 635 (2)—

ment of work in progress, and settlement of nnal accounts.

Salary scale: £640×£25 (4)×£30 (4)×£35 (2)—
£930, plus £20—£40 London weighting. Salary above minimum may be paid according to appropriate experience since obtaining qualification. Applications, stating age, qualifications (with dates) and experience, together with names of two referees, to Secretary, North-West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, within 14 days of appearance of this advertisement.

DURHAM COUNTY COUNCIL
PLANNING DEPARTMENT
LANDSCAPE ARCHITECT. Salary £880 to £1,030. Must be Associate of the I.L.A. and nave had considerable experience since qualifying. The successful candidate will be in charge of all landscape work of the Department, including planting of pit heaps, reclamation of derelict land, landscape schemes for housing, parks, roads, etc.
LANDSCAPE ASSISTANT. Salary £710 to £385.
Must be Associate of the I.L.A.
ASSISTANT AREA PLANNING OFFICERS (SIX). Salary £795 to £370. Must be Associate Members of the T.P.I. and have had at least 3 years' experience since qualifying in all aspects of development control work, and preferably some experience of Town Maps. A degree in Planning or an additional professional qualification will be an advantage.
ARCHITECTURAL ASSISTANT. Salary £710

an advantage.

ARCHITECTURAL ASSISTANT. Salary £710 to £885. Must be Associate of the R.I.B.A. Successful applicant will be engaged on housing layouts, town centre layouts and control of eleva-

DRAUGHTSMEN (male or female). Salary £530 to £610. Forms and particulars from County Planning Officer, 10, Church Street, Durham. Closing date 18th April, 1956.

J. K. HOPE. Clerk of the County Council.

BASILDON DEVELOPMENT CORPORATION DEPARTMENT OF ARCHITECTURE AND PLANNING Applications invited for following superannuable

(c) LANDSCAPE ASSISTANT, Grade VB (£580—£650 p.a.).

Post (a) candidates must be A.R.I.B.A. and have passed Intermediate examination of Institute of Landscape Architects or be A.I.L.A. They will be required to supervise contracts, and work on plans for landscape projects. Applicants must also be good draughtsmen with some site experi-

also be good draughtsmen with some site experience.

Post (b) candidates must have good experience landscape contract procedure, estimating for landscape projects, site supervision, and competent take charge this type contract.

Applicants post (c) must have some knowledge landscaping, be good draughtsmen, and will work on plans for landscape projects.

Persons appointed will work in collaboration with the Landscape Consultant, Miss Sylvia Crowe, F. I.L.A.

Applications on special form (obtainable from Chief Architect) must be made to General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, within 14 days of appearance this advertisement, envelope being endorsed with relevant appointment.

WARWICKSHIRE COUNTY COUNCIL

WARWICKSHIRE COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
Applications are invited for the following appointments:

(a) SENIOR
ASSISTANT ARCHITECTS, Grade A.P.T. V (£795—£970). Applicants must be competent designers, having a knowledge of modern methods of construction and be capable of handling large building projects from sketch plan stage to completion.

(b) ARCHITECTS, Grade A.P.T. IV (£710—£885). Applicants must be competent designers having a good knowledge of construction and be capable of handling medium sized contracts.

(c) ASSISTANT ARCHITECTS, scale £690—£340. The successful applicants will work in teams on large projects, but opportunity will be given to men with enthusiasm and ability to design and carry out smaller projects under the group Architect.

(d) LAND SURVEYOR Grade A.P.T. IV (£710—

to men with enthusiasm and ability to design and carry out smaller projects under the group Architect.

(d) LAND SURVEYOR, Grade A.P.T. IV (£710-£885). Preference will be given to applicants who have had experience in the acquisition of land for building purposes, and the person appointed will be required to devote most of his time to this type of work. Applicants should also be capable of surveying land and buildings and be neat and accurate draughtsmen.

(e) QUANTITY SURVEYING ASSISTANTS, Grade A.P.T., IV (£710-£885). Applicants should have had a thorough training and be competent to deal with "taking off," abstracting, billing, interim valuations, and settlement of final accounts.

The commencing salaries can be within the

interim valuations, and settlement of final accounts.

The commencing salaries can be within the grades according to the ability and experience. All appointments are on the established staff and subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities and the Local Government Superannuation Acts. 1937—1955. Successful candidates will be required to pass a medical examination.

The Council is unable to offer successful candidates housing accommodation.

Applications are to be on forms which can be obtained from G. R. Barnsley, F.R.I.B.A. County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS.

Clerk of the Council.

Shire Hall, Warwick.

March, 1956.

March, 1956.

HOLLAND COUNTY COUNCIL
COUNTY ARCHITECTS DEPARTMENT
Applications are invited for the appointment of
QUANTITY SURVEYOR, A.P.T., Grade V (4796
B.I.C.S. (Quantity Surveying Sub-Division).
Application forms may be obtained from L.
Barlow, Esq., A.B.I.B.A., County Architect,
County Hall, Boston, Lincolnshire, and should
be returned to the Clerk of the County Council
not later than 28th May, 1956.

be refurned to the Clerk of the County Council not later than 23th May, 1956.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD
SURVEYING ASSISTANT required in the Architect's Department. Salary within the scale £480 to £570, plus £20—230 London weighting, candidates should have passed the Intermediate examination of the R.I.C.S. (IIB) and be competent specification writers and able to prepare working drawings for alteration works. The work is varied and interesting, and the Board operates a scheme of financial assistance to students studying for professional examinations. Apply, stating age, qualifications and experience, and giving names of two referees, to Secretary. North-West Metropolitan Regional Hospital Board, IIa, Portland Place, W.I., within 14 days of appearance of this advertisement. 9592
ARCHITECT'S DEPARTMENT
JUNIOR DRAUGHTSMEN required Housing, Schools and General Divisions. Commencing rate of pay according to age and experience. Further particulars and application forms obtainable from the Architect, County Hall. S.E.I., quoting AR/BK/AD/I. (335)

INVERNESS COUNTY COUNCIL
plications are invited for the following
intments in the County Architect's Depart-

appointments in the county Atentees 2.2.

ment:—

(a) SENIOR ARCHITECTURAL ASSISTANTS.

Salary £1.000 per annum.

(b) SENIOR ARCHITECTURAL ASSISTANT.

Salary A.P.T. VIII, with placing on maximum at £915 per annum.

(c) ARCHITECTURAL ASSISTANT. Salary A.P.T. V, with placing on maximum at £715 per annum.

Associate Members of the Royal Institute of British Architects.

For appointments (a) applicants must also be Associate Members of the Town Planning Institute, and for (b) preference will be given to candidates who are similarly qualified.

Housing accommodation may be made available, if required.

if required.

Applications, stating age, experience and qualifications, together with the names of three persons to whom reference should be made, should be lodged with the undersigned not later than 14 days after the publication of this advertise-

Inverness.

R. WALLACE, County Clerk. 9482

CITY OF GLOUCESTER CITY ENGINEER AND SURVEYOR'S DEPARTMENT

The Corporation invite applications for the appointment of JUNIOR PLANNING ASSISTANT, in Salary Grade A.P.T. I (£530—£610), or A.P.T. II (£555—£675); or in other salary grades according to training and experience. The appointment is subject to the Local Government Superannuation Acts, and the successful candidate will be required to pass a medical examination.

ment Superaturations are candidate will be required to pass a medical examination.

Applicants should preferably have had three years' training and some additional experience in planning work, with the qualification of the Intermediate Examination of the Town Planning Institute for Grade II. They should have completed or be exempt from National Service.

Applications, stating age, qualifications and experience, accompanied by two recent testimonials or the names of two referees, and endorsed "Junior Planning Assistant." to be delivered to the undersigned not later than 10 a.m. on Saturday, 21st April, 1956.

A. G. W. BOGGON,

Guildhall, Gloucester.

Guildhall, Gloucester.

BOROUGH OF FINCHLEY
HOUSING AND TOWN PLANNING
BEPARTMENT
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT ON THE PERMANENT
STAFF
Salary A.P.T. Grade VI (£880×£40-£1,080), plus
London weighting.
Applicants must be fully experienced Registered
Architects, with a thorough knowledge of
practical office work in housing and general
architecture, and be used to control of staff and
site supervision of contracts. Experience in
design of multi-storey flats is highly desirable.
The National Scheme of Conditions of Service
and the Logal Government Superannuation Acts
applied and the Logal Government Superannuation Acts
applied to the superannuation Acts
polications, giving full particulars and
accompanied by copies of two testimonials (or
the names of two referees), to the Borough
Housing and Town Planning Officer, The Avenue,
Finchley, N.3, by 23rd April, 1956.
R. M. FRANKLIN.
Municipal Offices, Finchley, N.3.

Municipal Offices, Finchley, N.3.

BIRMINGHAM REGIONAL HOSPITAL BOARD ARCHITECTURAL STAFF APPOINTMENTS (Donald A. Goldfinch, E.R.D., F.R.I.B.A., Dip.T.P., Architect to the Board.) (a) SENIOR ASSISTANT ENGINEER (Heating and Ventilation), £920×£30 (5)×£25 (1)—£1.095. Duties include design, preparation of plans, specifications and technical reports, supervision of new installations of heating and ventilation, boiler house plants and other hospital services. AM.I.Mech.E. essential, A.M.I.H. and V.E. (b) ASSISTANT ADOLUTECTS (TWO)

desirable.
(b) ASSISTANT ARCHITECTS (TWO), £640×
£25 (4)×£30 (4)×£35 (2)—£930, according to age and experience. Applicants must be registered architects, having passed requisite examinations. Experience of hospital planning and construction an advantage. Sound knowledge specifications

essential.

(c) ASSISTANT ENGINEERS (TWO), £640×
£25 (4)×£30 (4)×£35 (2)-£930, according to age
and experience. A.M.I.H.V.E. desirable.

(d) ARCHITECTURAL ASSISTANTS (TWO)
(required for large new hospital project), £480×
£20 (7)×£25 (2)-£670. Point of entry according
to experience, maximum £560. Inter. R.I.B.A.

to experience, maximum 2000. Inter. B.A.B.A. essential.

(e) JUNIORS (two Architectural and one Engineering): Male, £170 (aged 16), maximum £400 (aged 25); female, £165 (aged 16), maximum £300 (aged 25) (salary under revision equal pay to be implemented). Successful candidates expected to study for professional examinations.

All appointments superannuable.

Apply, naming three referees, to Secretary, 10, Augustus Road, Birmingham, 15, by 10th May.

URBAN DISTRICT COUNCIL OF EAST
BARNET
Applications are invited for the following per-

Applications are invited to the constant parameter appointments:—

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£710 to £885 per annum).

(b) ASSISTANT ARCHITECT, Grade A.P.T. A.P.T. IN (1970)

(b) ASSISTANT ARCHITECT, Grade A.P.T. III (£640 to £765 per annum).

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£595 to £675 per annum).

(d) DRAUGHTSMAN (ARCHITECTURAL).

Grade A.P.T. I (£550 to £610 per annum).

All salaries will be increased by London weighting of £20 to £30 per annum, according to age. Housing accommodation will be provided for appointments (a) and (b) if necessary.

Conditions of Appointment and Forms of Application, returnable by 7th May, 1956, may be obtained from the Engineer and Surveyor, Town Hall, Station Road, New Barnet, Hertfordshire.

9503

BOROUGH OF FINCHLEY
HOUSING AND TOWN PLANNING
DEPARTMENT
JUNIOR ARCHITECTURAL ASSISTANT
Salary A.P.T. Grade I (£530-£610), plus
London weighting.
Subject to satisfactory service the duration
of the post will be approximately two years.
Preference will be given to those who have
passed the R.I.B.A. Intermediate, and who have
had practical office experience in housing work.
The National Scheme of Conditions of Service
and the Local Government Superannuation Acts
apply and medical examination required.
Applications, stating age and full particulars
of qualifications and experience, with names of
two referees, to the Borough Housing and Town
Planning Officer, The Avenue, Finchley, N.3, by
23rd April, 1956.

R. M. FRANKLIN.

R. M. FRANKLIN. Town Clerk

Municipal Offices, Finchley, N.3.

Municipal Offices, Finchley, N.3.

COUNTY BOXOUGH OF WEST HAM
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT
Applications are invited from suitably qualified
and experienced Architects and Architect/
Planners for vacancies on the permanent establishment, as under:
(a) SENIOR ASSISTANT ARCHITECTS, V
(£795×£35-£985).
(b) SENIOR ASSISTANT ARCHITECTS, IV
(£710×£35-£985).

(£710×£35-£885).
(c) ARCHITECTURAL ASSISTANT, I/II
(£530×£20-£675).

(a) SENIOR ASSISTANT (PLANNING), V
795×25-6970),
(e) SENIOR ASSISTANT (PLANNING), IV
710×255-6995)

PLANNING ASSISTANT, I/II (£530×£20—

London allowance in addition.

The County Borough has an extensive reconstruction and slum clearance programme, and offers interesting work to Architects and Planners. Application forms and details from the Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.B.I.B.A., Dist.T.P., M.T.P.I., 70, West Ham Lane, Stratford, E.15 (returnable by 21st April, 1956).

April, 1956). 9492

CWMBRAN DEVELOPMENT CORPORATION
ASSISTANT ARCHITECT (£965×£50-£1,165).
Applications are invited for the above superannuable post in my department. The commencing salary within the scale will be in accordance with the analifications and experience of the successful candidate.

The position is primarily in connection with the construction of the Town Centre of the New Town, and applicants must be Associates of the R.I.B.A. and have had experience in design, construction and layout of Shops, Offices and Commercial premises.

Housing accommodation will be made available in suitable cases or otherwise lodging expenses in accordance with the Corporation's scale will be paid to married men for a limited period. Applications, stating age, experience, details of present and former employment (together with applicable salaries), and the names and addresses of two referees, must reach the undersigned by first post on 5th May, 1956.

CITY OF SHEFFFILD

Grist post on 5th May, 1956.

CITY OF SHEFFIELD

CITY ENGINEER AND SURVEYOR'S

DEPARTMENT

SENIOR PLANNING ASSISTANT, GRADE

A.P.T. IV

Applications are invited for the position of
Senior Planning Assistant, Grade A.P.T. IV

(2710—12885), on the staff of the City Engineer
and Surveyor and Town Planning Officer (H.

Foster, M.I.C.E., M.I.Mun.E.).

Oualifications: A.M.T.P.I., or A.M.I.C.E., or
A.M.I.R.A., or A.R.I.C.S., or Engineering Degree,
or A.M.I.Mun.E. Preference would be given to
candidates with Planning and Architectural experience.

perience.
Superannuable post, N.J.C. conditions of service.

Superannuable post, N.J.C. consistent medical examination.
Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries), and quoting the names of two referees, should be submitted to the undersigned within 7 days of the insertion of this advertisement.

JOHN HEYS.

Town Clerk.
9479

Town Hall, Sheffield, 1.

COUNTY BOROUGH OF BARROW-IN-FURNESS
BOROUGH ENGINEER AND SURVEYOR'S
DEPT.
SENIOR ARCHITECT
Applications are invited for the permanent post of Senior Architect on Grade V (£795-±570). The commencing salary will be fixed according to the qualifications and experience of the successful applicant. Candidates must be Associates of the Royal Institute of British Architects. Architects

Architects.

It is possible that the Council will allocate a Corporation house for the post, subject to the merits of the case being satisfactory to the interviewing Committee.

The Department works a 5-day week.

Further details and forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Barrowin-Furness, to whom applications must be returned not later than 30th April 1982.

LAWRENCE ALLEN, Town Clerk

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Town Hall, Barrow-in-Furness.

COUNTY BOROUGH OF CROYDON QUANTITY SURVEYING ASSISTANT Applications are invited for the established appointment in the School Architect's Section (School Architect, C. T. Ayerst, A.R.I.B.A.). Salary commencing according to experience and qualifications, rising to a maximum of £870 per annum inclusive.

Application forms and conditions obtainable from the Chief Education Officer, 19, Katharine Street, Croydon. Closing date 14 days after publication of this advertisement.

COUNTY OF COUNTY

publication of this advertisement. 9500

COUNTY OF LONDON
BUILDING BY-LAWS
The London County Council gives notice, in accordance with Section 8(a) of the London Building Act (Amendment) Act, 1935, that it proposes, not less than two months from the date of this notice, to make by-laws being an amendment of the London Building (Constructional) By-Laws, 1952, made under the abovementioned Acts with respect to

(i) the external and internal cladding of buildings, being an addition to Part III (Materials of Construction) of the said By-laws,

omitaings, being an addition to Fart III (Materials of Construction) of the said By-laws,

(ii) the protection of structural steelwork, being the substitution of a by-law for By-law 6.02 of Part VI (The Structural Use of Steel) of the said By-laws, and

(iii) matters incidental thereto.

Any authority, body or person desirous of objecting to any proposed by-law may do so within six weeks after the publication of this notice by a letter addressed to the Minister of Housing and Local Government, Whitehall, London, S.W.i, setting out the grounds on which objection is made.

Copies of the proposed by-laws are deposited at the County Hall (Room 311A), Westminster Bridge, S.E.I, and are open to public inspection without payment on any week-day during the usual office hours.

Copies may be obtained from the Clerk of the Council (T/BL) by sending a stamped addressed envelope.

W. O. HART.

envelope. W. O. HART,
Clerk of the London County Council.
28th March, 1956.
BRISTOL EDUCATION COMMITTEE
COLLEGE OF TECHNOLOGY
Principal: G. H. Moore, M.Sc., F.P.S., F.R.L.
Applications invited for three new posts in
DEPARTMENT OF BUILDING from 1st September, 1956

DEPARTMENT OF BUILDING from 1st September, 1956.

(1) LECTURER in Structural Engineering to teach "structures" to final levels for A.M.I.Struct.E., R.I.B.A. and R.I.C.S. Qualifications A.M.I.Struct.E. and / or teach and co-ordinate Plastering Technology to final and post-final City and Guilds. Teaching experience essential.

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G. H. SYLVESTER, Chief Education Officer. 9587

ARGYLL COUNTY COUNCIL

Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT for the County Architect's Department. Salary scale A.P.T. I-III (£515-£650), with placing according to experience and qualifications. The post is superannuable. Applicants must have completed a 5 years' apprenticeship and be capable of taking off, preparing bills of quantities, and remeasuring all trades.

Apply, giving details of qualifications and experience, along with copies of two recent testimonials, to County Architect, County Offices, Dunoon, within 7 days of publication.

A. D. JACKSON.

County Clerk.

CARDIFF RURAL DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the appointment of Assistant Architect in my Department.
Applicants should be Associates of the R.I.B.A. and must have had experience with multi-storey flats from a design stage to completion of the works. The successful candidate will be engaged primarily on works of this character.
The appointment is superannuable and is subject to—
(a) National Conditions of Service.
(b) One month's notice on either side.
(c) Satisfactory medical examination.
Housing accommodation will be made available if required.
Applications giving details of age, qualifications, experience, present and past appointments and indicating the salary required by the applicant and giving the names of two referees, must reach the undersigned not later than Friday, 27th April, 1956.

S. P. YOULDON,

S. P. YOULDON, Engineer and Surveyor.

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S. P. YOULDON,
Engineer and Surveyor.

"Park House."

20. Park Place,
Cardiff.

28th February, 1956.

THE NORTH WESTERN ELECTRICITY
BOARD
POINTMENT OF ASSISTANT QUANTITY
BURVEYOR (FOURTH ASSISTANT ENGINEER)
CONSTRUCTION SECTION—CHIEF ENGINEER)
ANCHESTE DEPARTMENT
AREA BOARD HEADQUARTERS,
MANCHESTER.

The duties will consist of general assistance in the preparation of Bills of Quantities, and particularly in abstracting, billing and site measurements, and in taking off and preparing final accounts.

Preference will be given to applicants who have passed or are about to enter for the Intermediate Examination of the R.I.C.S. or A.I.A.S.
Salary scale: £600×£25—£725×£90—£805 p.a.,
AX/EX.6. N.J.B. conditions.
Applications to Establishment Officer, The North Western Electricity Board, Cheetwood Road, Manchester, S. by 21st April, 1366. 9533
BOROUGH OF BRENTFORD AND CHISWICK
APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT
Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a salary according to A.P.T. I (£530—£610 p.a.), plus London weighting allowance.

Applicants should be competent draughtsmen.

Applicants should be competent draughtsmen. The appointment offers excellent opportunities for gaining architectural training and experience.

A MODERN FLAT CAN BE RENTED BY THE SUCCESSFUL APPLICANT.
Form of application, which is to be returned not later than the 23rd April 1956, can be obtained from the Borough Engineer and Surveyor, Town Hall, Chiswick.

W. F. J. CHURCH.
Town Hall, Chiswick, W.4.

Town Hall, Chiswick, W.4.

Town Hall, Chiswick, W. 4.

W. F. J. CHURCH.

Town Clerk.

9536

NATIONAL COAL BOARD—WEST MIDLANDS
DIVISION

Applications are invited for the post of ARCHIECT. Grade II. at Himley Hall, Dudley, Worcs.
Salary range £700×£30—£1,000.

Applicants should be A.R.I.B.A. and have experience in preparation of sketch designs and
working drawings. Work is of an interesting
character embracing both industrial and welfare
buildings.

Applications to the Divisional Establishment
Officer, National Coal Board, Himley Hall,
Dudley, Worcs.

COUNTY BOROUGH OF SOUTHAMPTON requires under N.J.C. conditions of service:—
ARCHITECTURAL ASSISTANT, Grade A.P.T.
II (£595—£675). Must have passed the Intermediate Examination of the R.I.B.A. or its
equivalent at one of the recognised schools of
architecture, and have had subsequent experience, preferably in local government housing.
Apply with copies of two testimonials to the
Borough Engineer and Surveyor, Civic Centre,
Southampton, by Monday, 237d April, 1956. 9527

WORTLEY RURAL DISTRICT COUNCIL
(Population 4520) Ratesile value (£456.720)

WORTLEY RURAL DISTRICT COUNCIL (Population 45,200. Rateable value £456,720) Applications are invited for this appointment at a salary in accordance with the Special Grade £690, rising by annual increments of £30 to £840 per annum.

per annum.

Housing accommodation available.
Applications, giving full details of qualifications and experience and names of two referees, should be delivered to the undersigned not later than Friday, 27th April, 1956.

ADRIAN M. KELLY.
Clerk of the Council.
Council Offices, Grenoside, Sheffield.

9537

Council Offices, Grenoside, Sheffield.

THE METROPOLITAN BOROUGH OF HAMPSTEAD require in the Housing Architect's Section of the Borough Engineer's Department a CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T. V-VI (1795—£1.080, plus London weighting). He should be an Associate Member of the R.I.B.A. Medical examination required. No housing provided. Applications, suitably endorsed, giving names of three referees. to the Town Clerk, Town Hall, Haverstock Hill, N.W.3, by Thursday, 26th April, 1956.

CORPORATION OF LONDON CITY SURVEYOR'S DEPARTMENT

ASSISTANT, R.I.B.A. or R.I.C.S. (Building), Intermediate standard. Good draughtsmanship essential, with sound knowledge of general construction and specification writing, including repairs, alterations and maintenance of existing buildings. Salary up to £728, according to qualifications and ability. Applications, in writing, to City Surveyor, 55/61, Moorgate, E.C.2. 9532

MANCHESTER REGIONAL HOSPITAL BOARD invite applications from suitably qualified persons for the separate appointments of REGIONAL ARCHITECT and REGIONAL ENGINEER, at a salary in each case commencing at £1,695 a year and rising to £2,115 a year. Further particulars of the duties of these posts and application forms may be obtained from the Secretary of the Board at Cheetwood Road, Manchester, & Closing date for applications, 21st April, 1956.

Architectural Appointments Vacant
4 lines or under, 7s. 6d.; each additional line, 2s.
The engagement of persons answering these
advertisements misst be made through a Local
Office of the Ministry of Labour or a Scheduled
Employment Agency if the applicant is a man
aged 18-64 inclusive or a woman aged 18-69
inclusive unless he or she or the employment is
excepted from the provisions of the Notification
of Vacancies Order, 1952.

RCHITECTURAL ASSISTANT required, up
to Intermediate standard, Westminster
office. Pension and Bonus Schemes. Five-day
week. Write, stating experience, age, and salary
required, to Box 9271.

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CARCHITECTURAL ASSISTANTS. Salary
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9333

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A.R.I.B.A.. Chief Architect. Co-operative Wholesale Society, Ltd., I. Balloon Street, Manchester, 4. 3871

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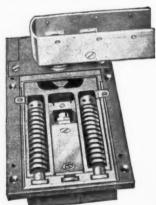
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A PPLICATIONS are invited for the appointment of Deputy Architect in the Architect's Department at the Company's headquarters at Treforest Industrial Estates. Pontypridd, Glam. The salary scale will be £935 × £50-£1,170 p.a. Commencing salary will depend on the experience of the successful applicant. The Company has a contributory superannuation scheme. Candidates must be A.R.I.B.A. and have had experience in the design of industrial buildings.

Applications, giving age and details of profes-sional training, experience and National Service, together with the names of two referees, to be in the hands of the undersigned by 21st April, 1956.

C. E. Harrison, Secretary, Treforest Industrial Estates, Pontypridd, Glam.

Pontypridd, Glam. 9622

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THE Architects' Department seek ARCHITECTURAL STAFF enthusiastic to apply
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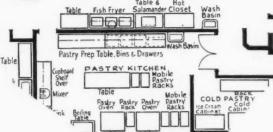
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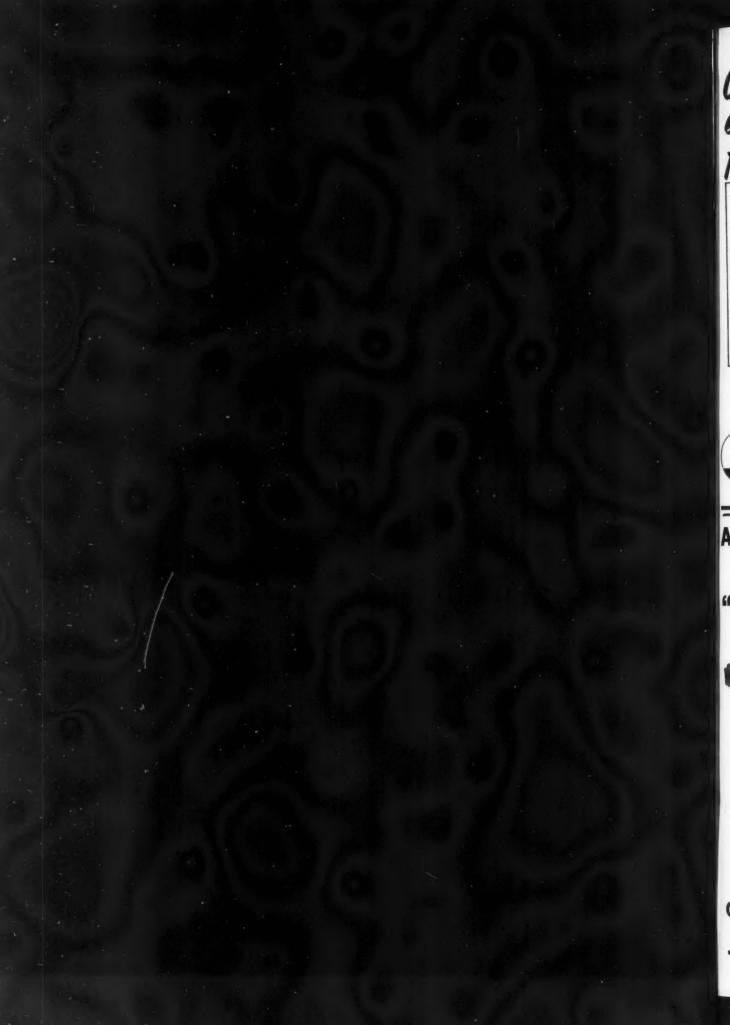
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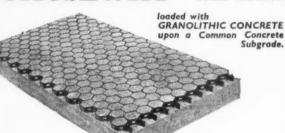
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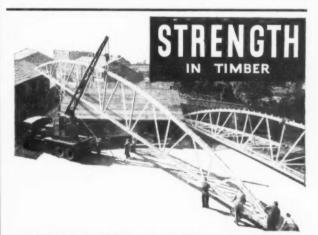


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