

# THE ARCHITECTS' JOURNAL



## Standard contents

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

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Grosvenor 4761
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Langham 5721
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Reliance 7611, Ext. 1706
BCC	British Colour Council. 13, Portman Square, W.1.	Museum 5400
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Welbeck 4185
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Perivale 6869
BDA	British Door Association. 10, The Boltons, S.W.10.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Flaxman 7766
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Temple Bar 9434
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Euston 5385
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade. Millbank, S.W.1.	Langham 2785
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Mansion House 9383
BSA	Building Societies Association. 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Mayfair 0515
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Abbey 3333
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Holborn 8146/7
CAS	County Architects Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Newport 3111
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Chichester 3001
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Reliance 7611
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland.	Radlett 5616
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Reliance 7611
DPT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). 40, Piccadilly, W.1.	Victoria 9040
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns, S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors, 5, Arundel Street, Strand.	Temple Bar 6633
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FPC	Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1.	
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 4554
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2844
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Whitehall 2881
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Sloane 5615
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Grosvenor 6186
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Whitehall 4577
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Temple Bar 7676
		Abbey 5215

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[Vol. 116

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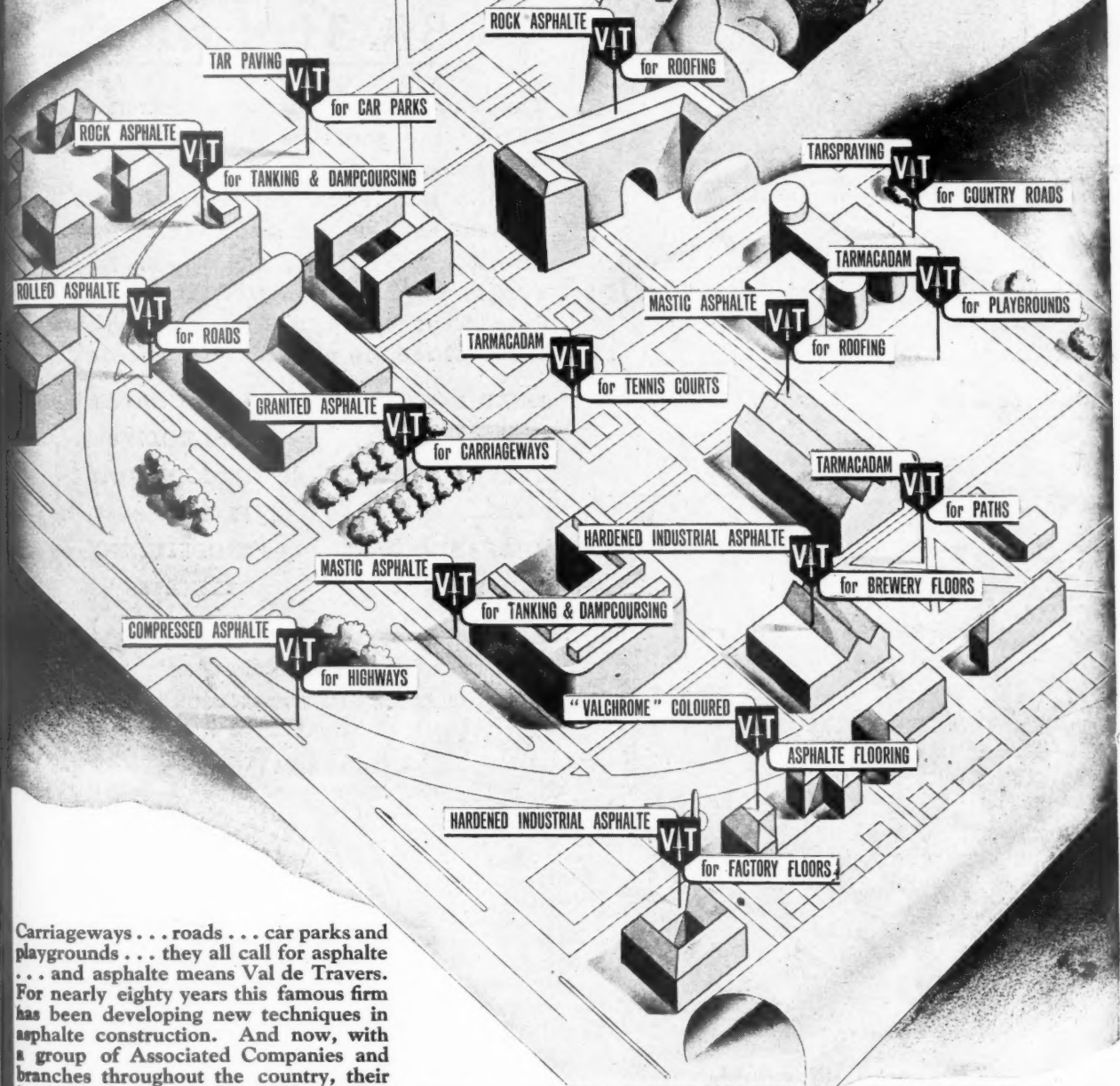
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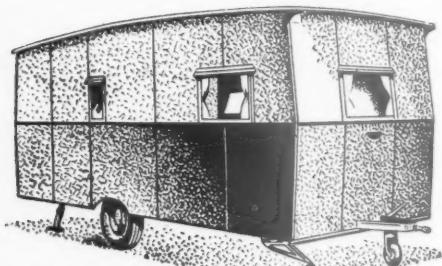
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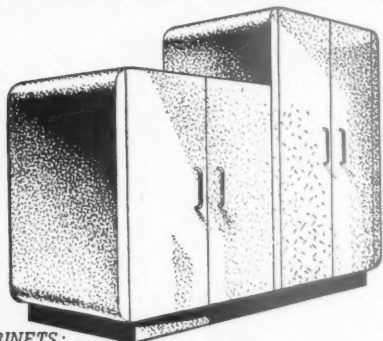
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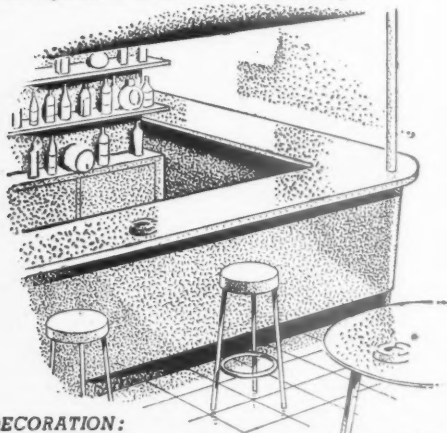
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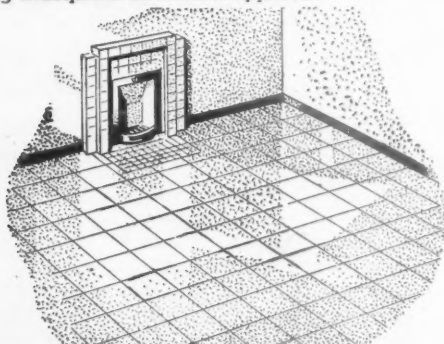
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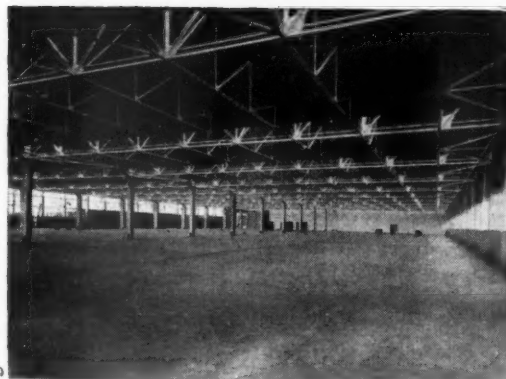
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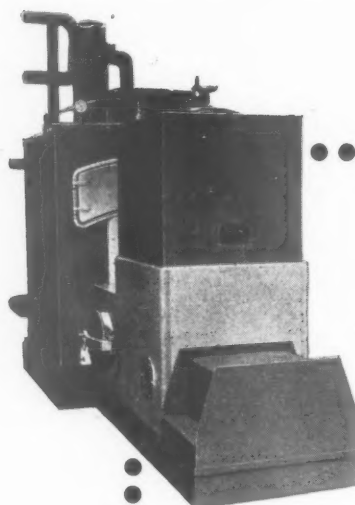
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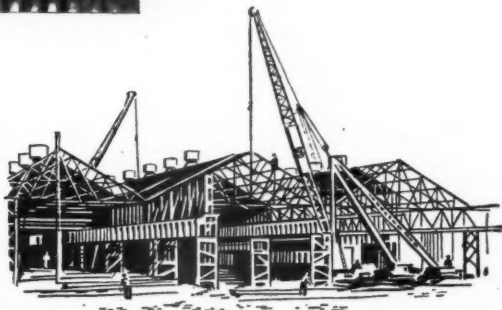
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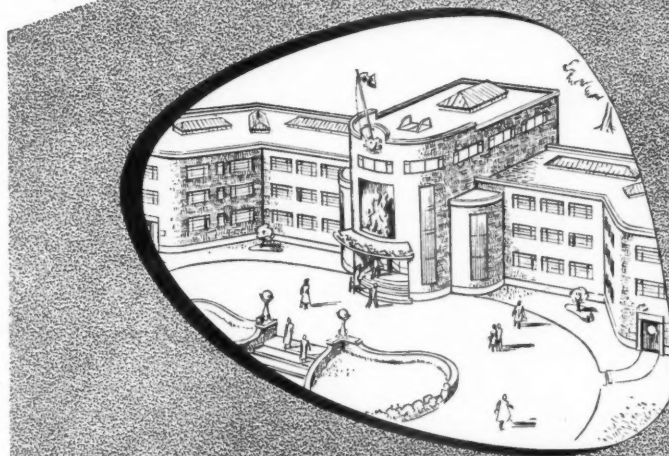
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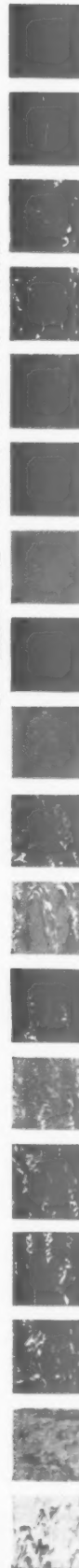


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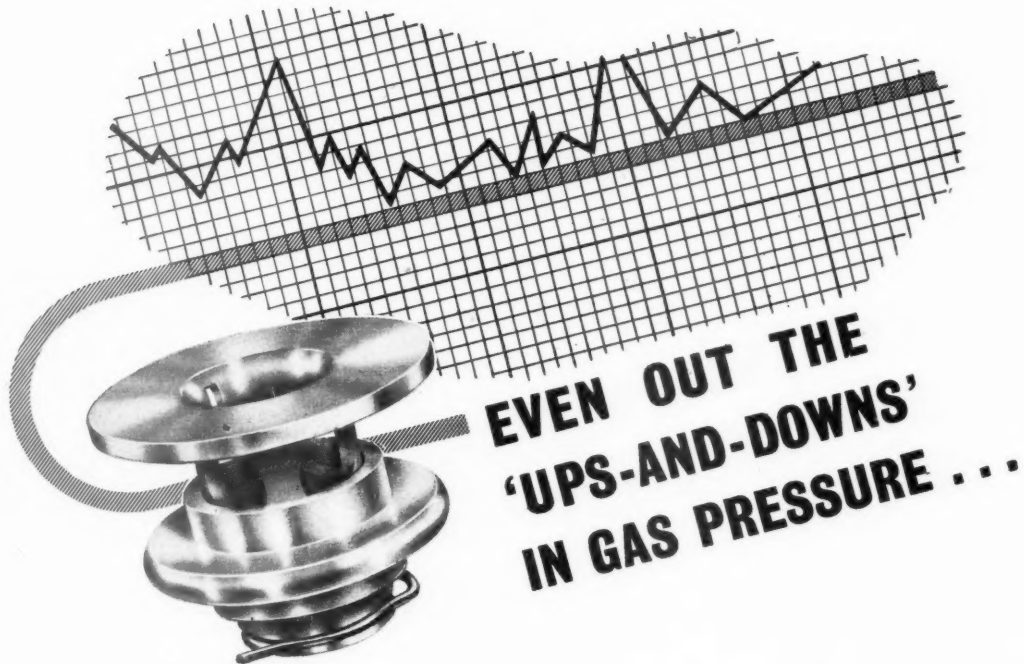
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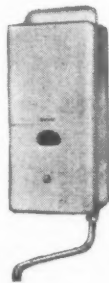




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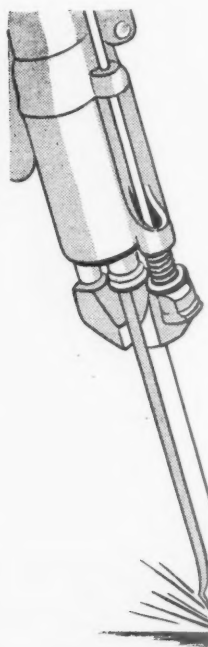
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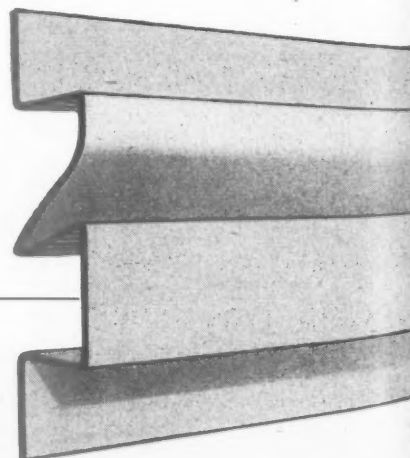
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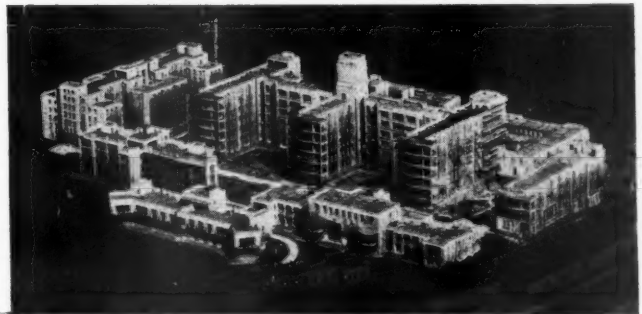
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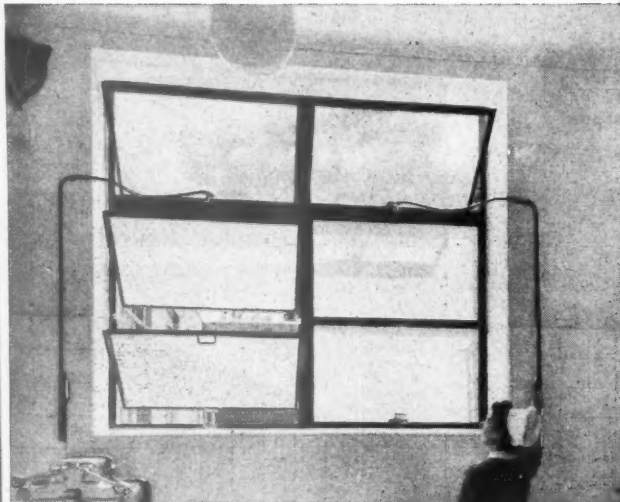
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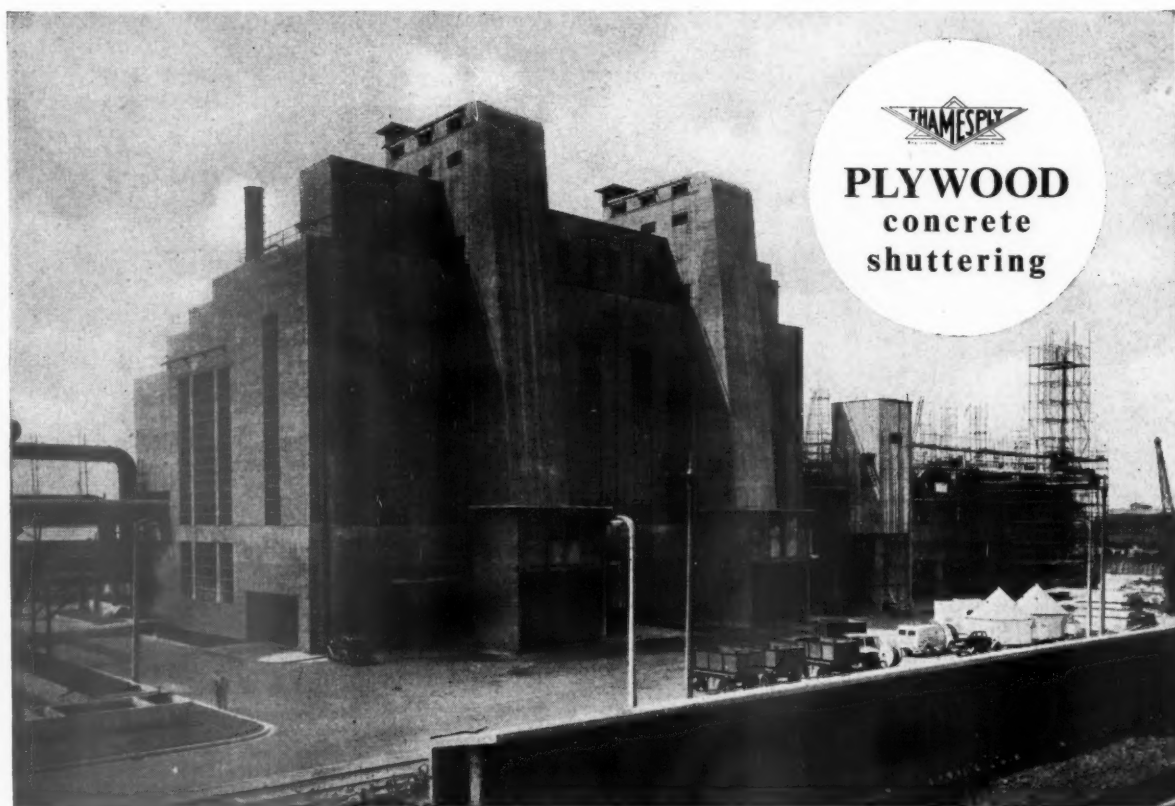
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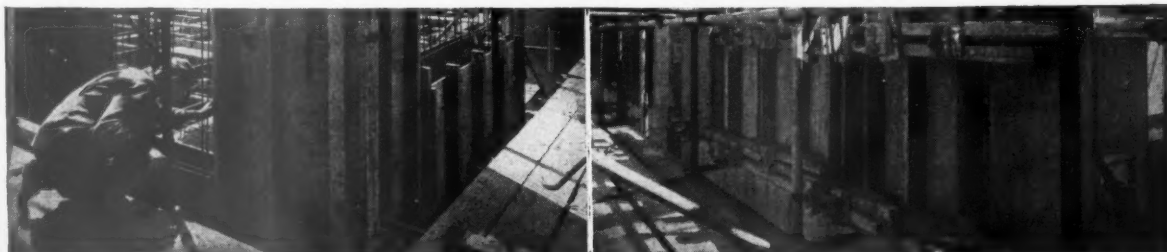
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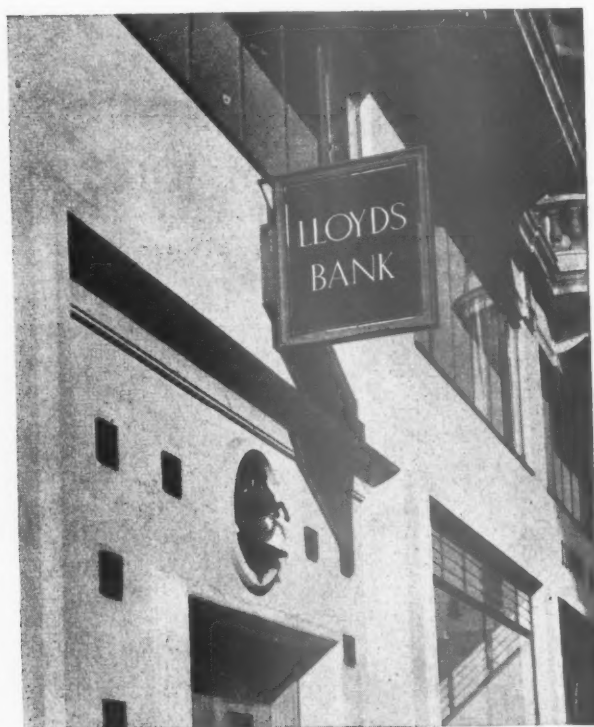
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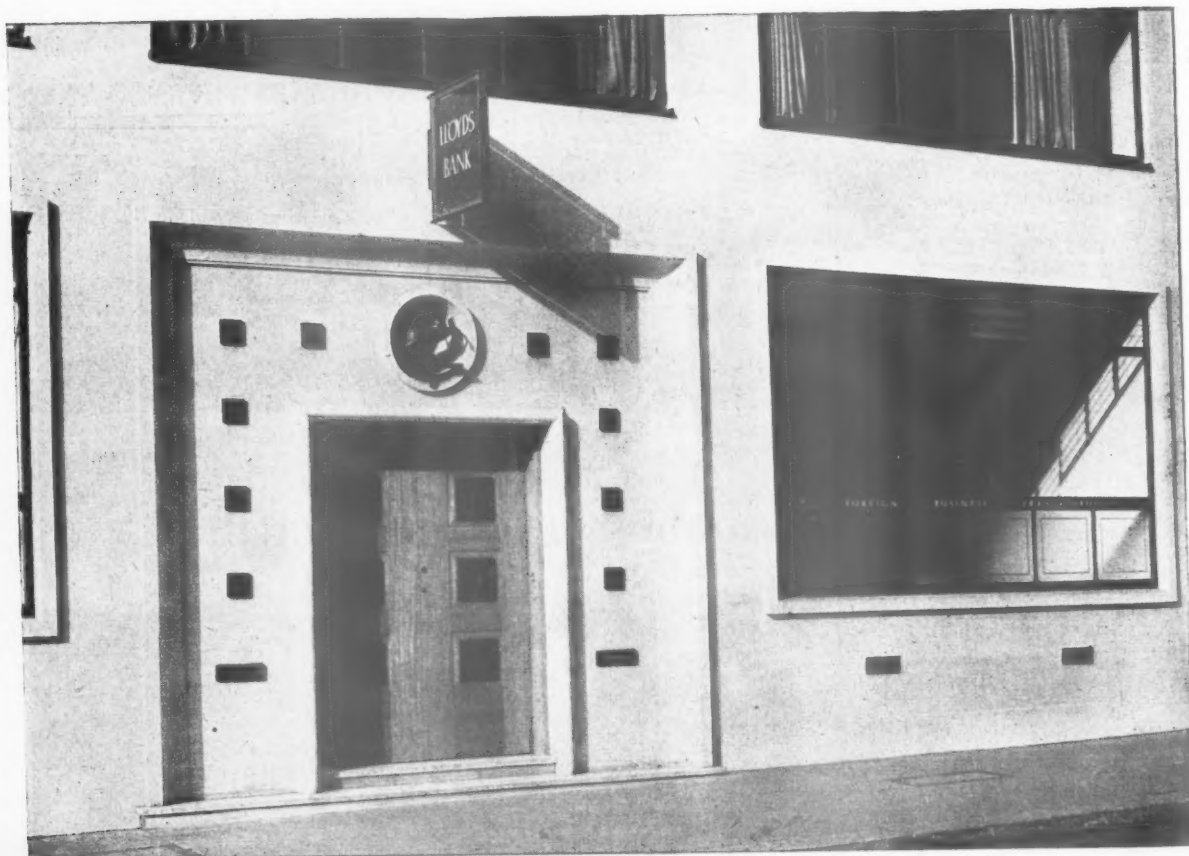
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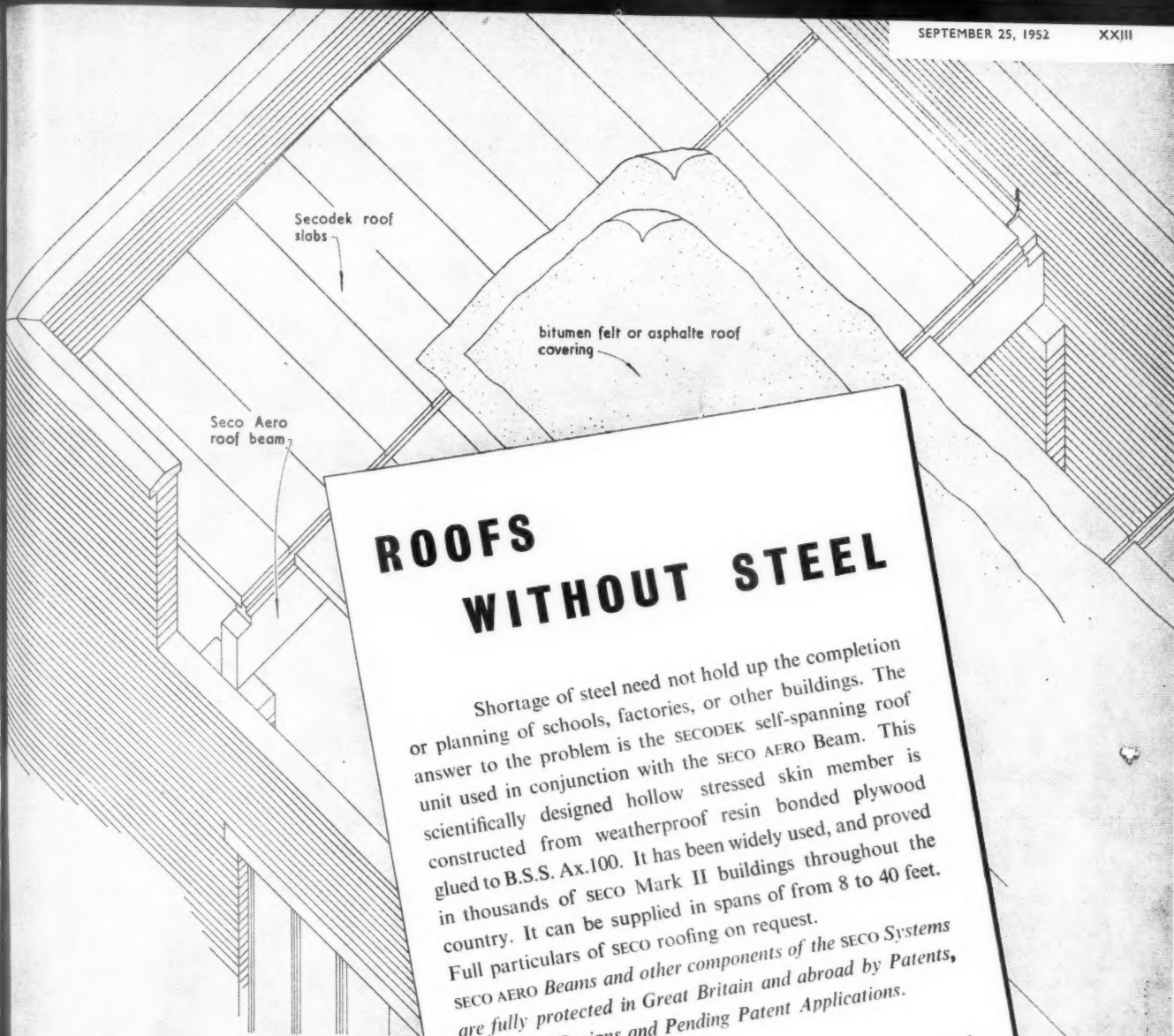
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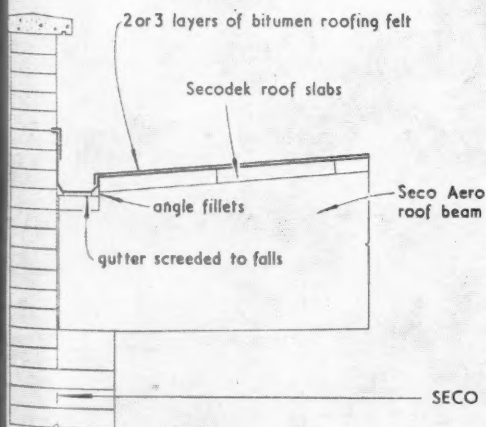
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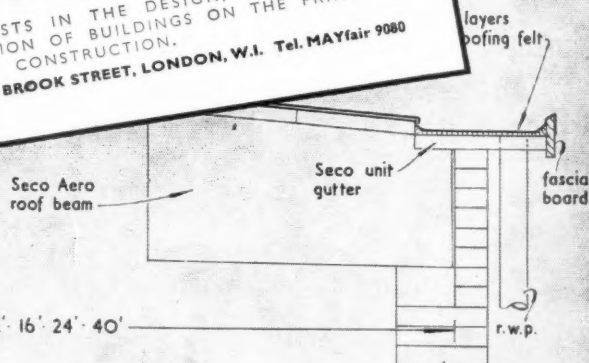
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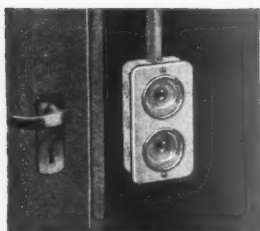
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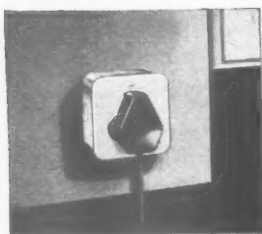
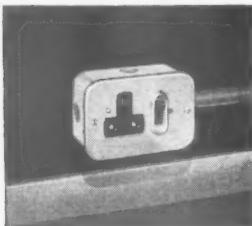
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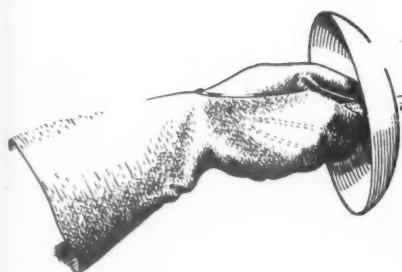
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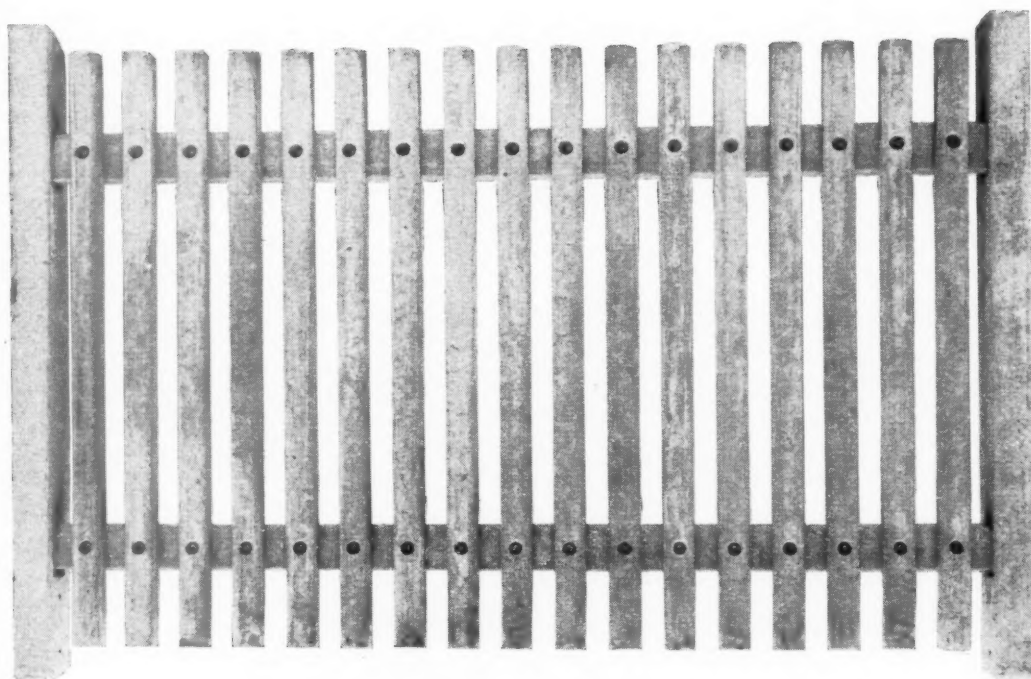
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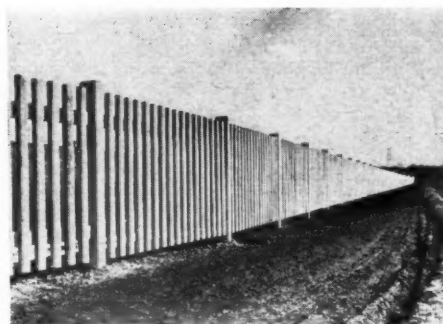
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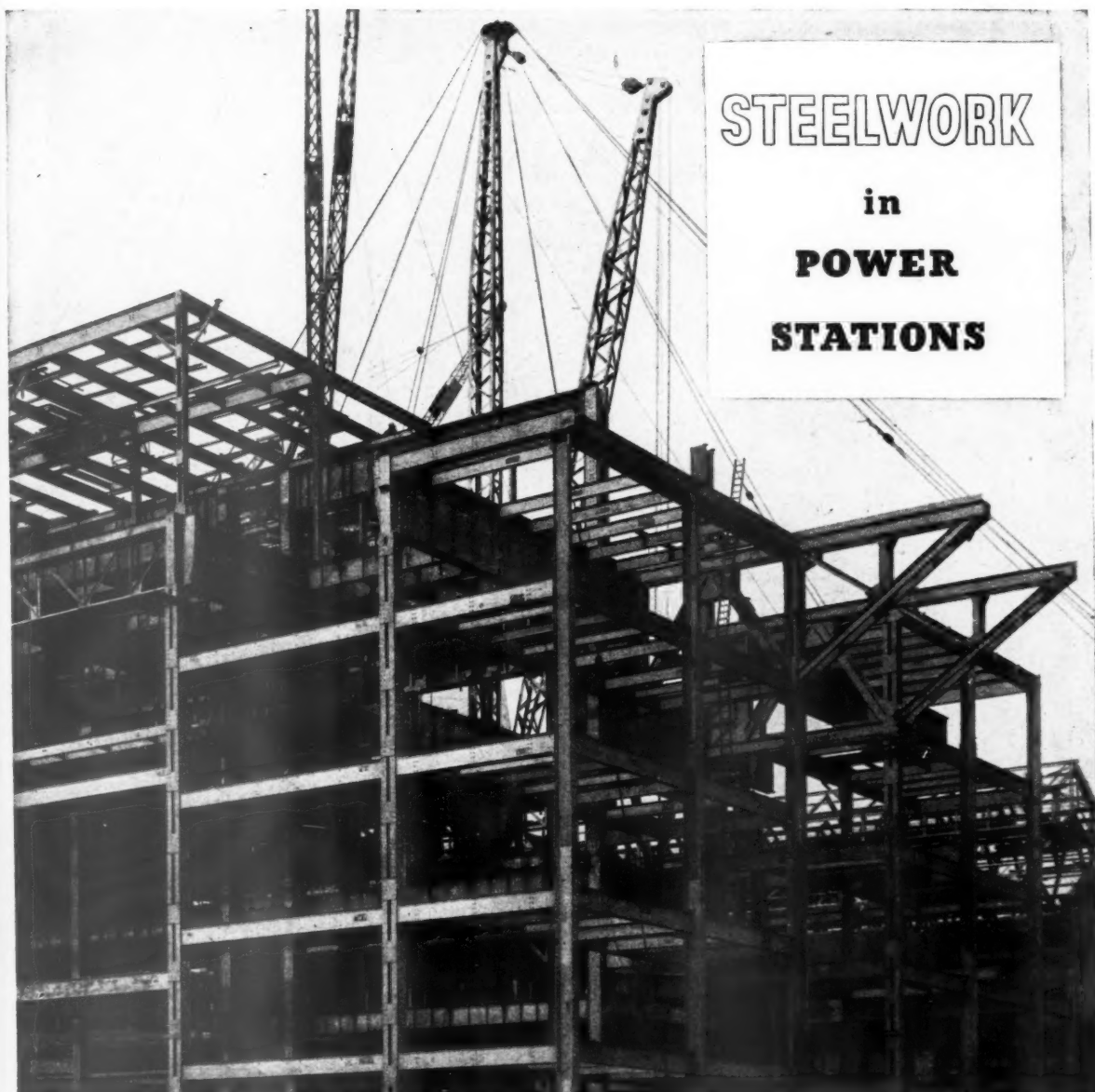
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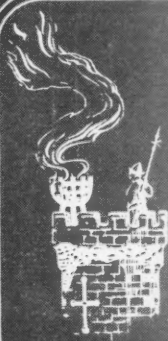
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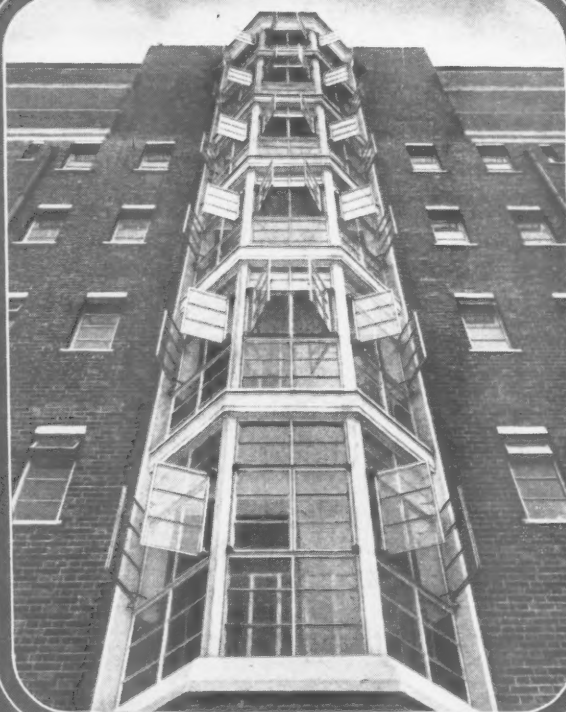
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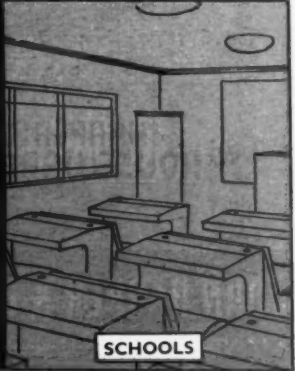
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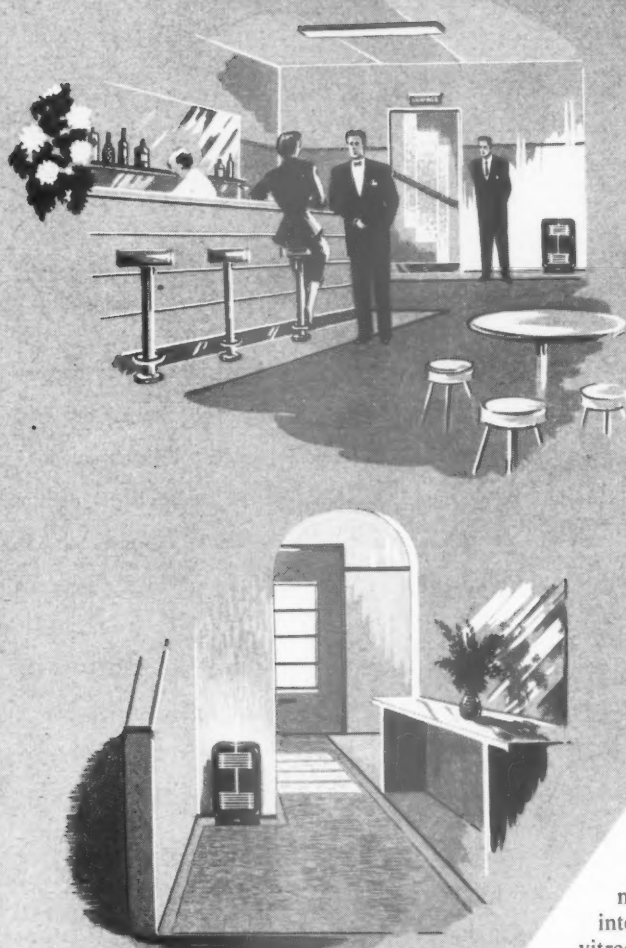
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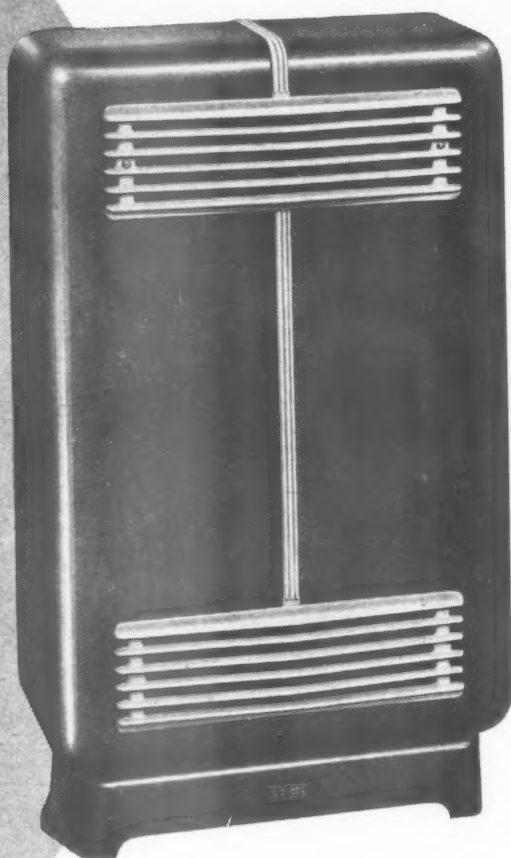
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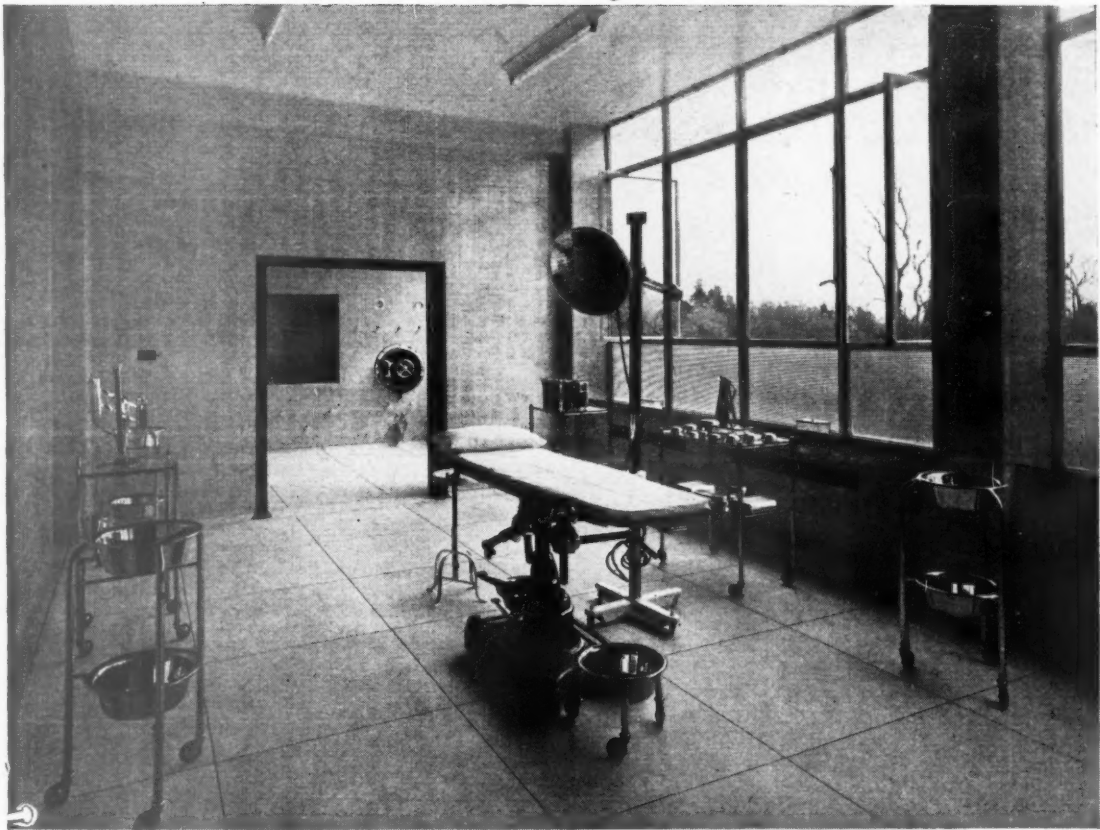
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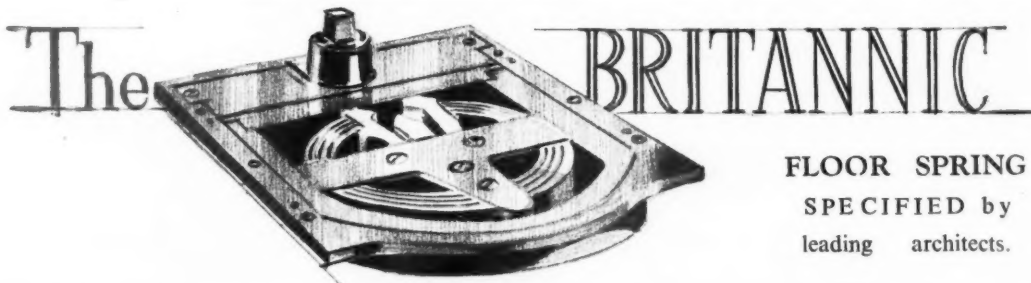


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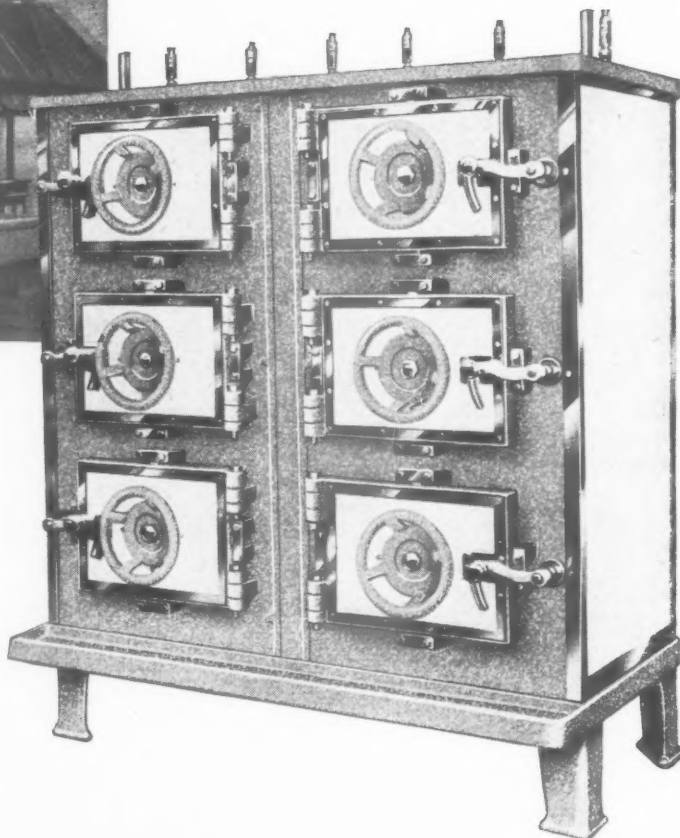
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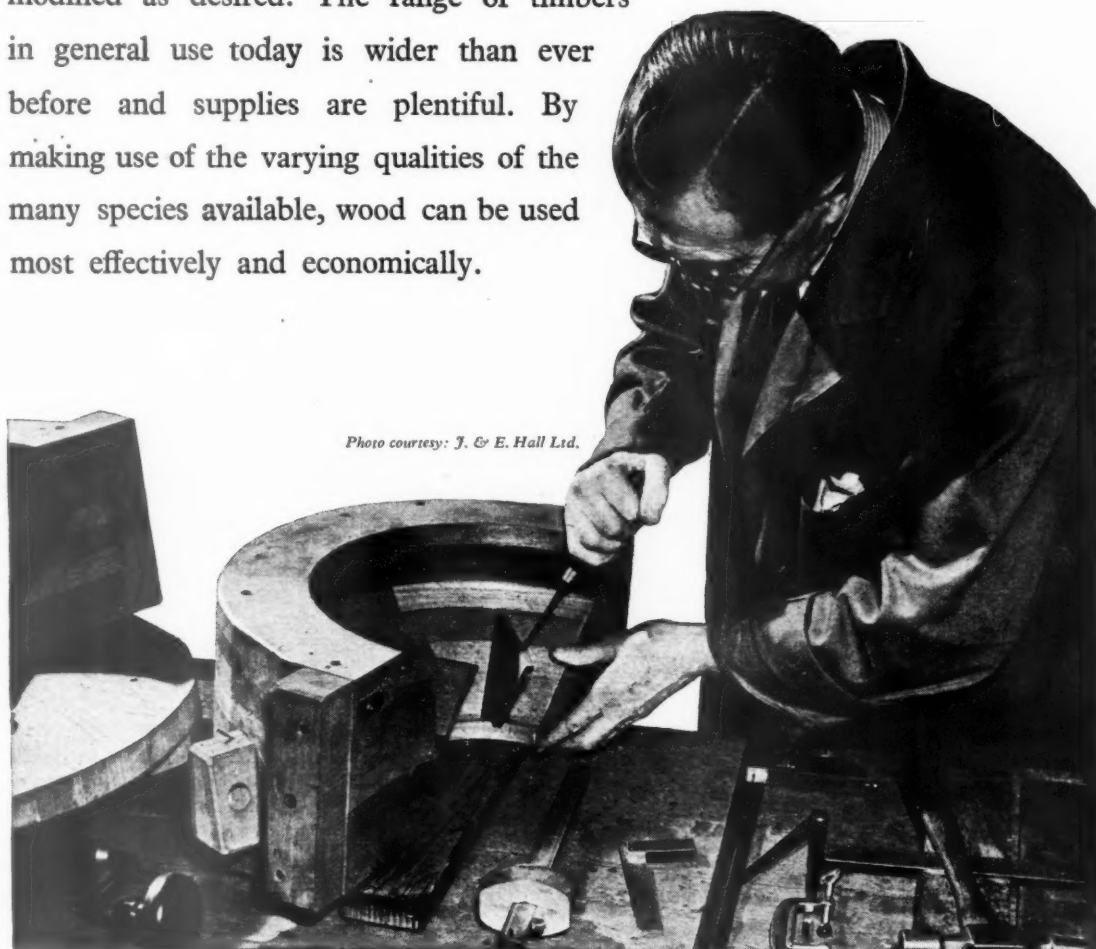


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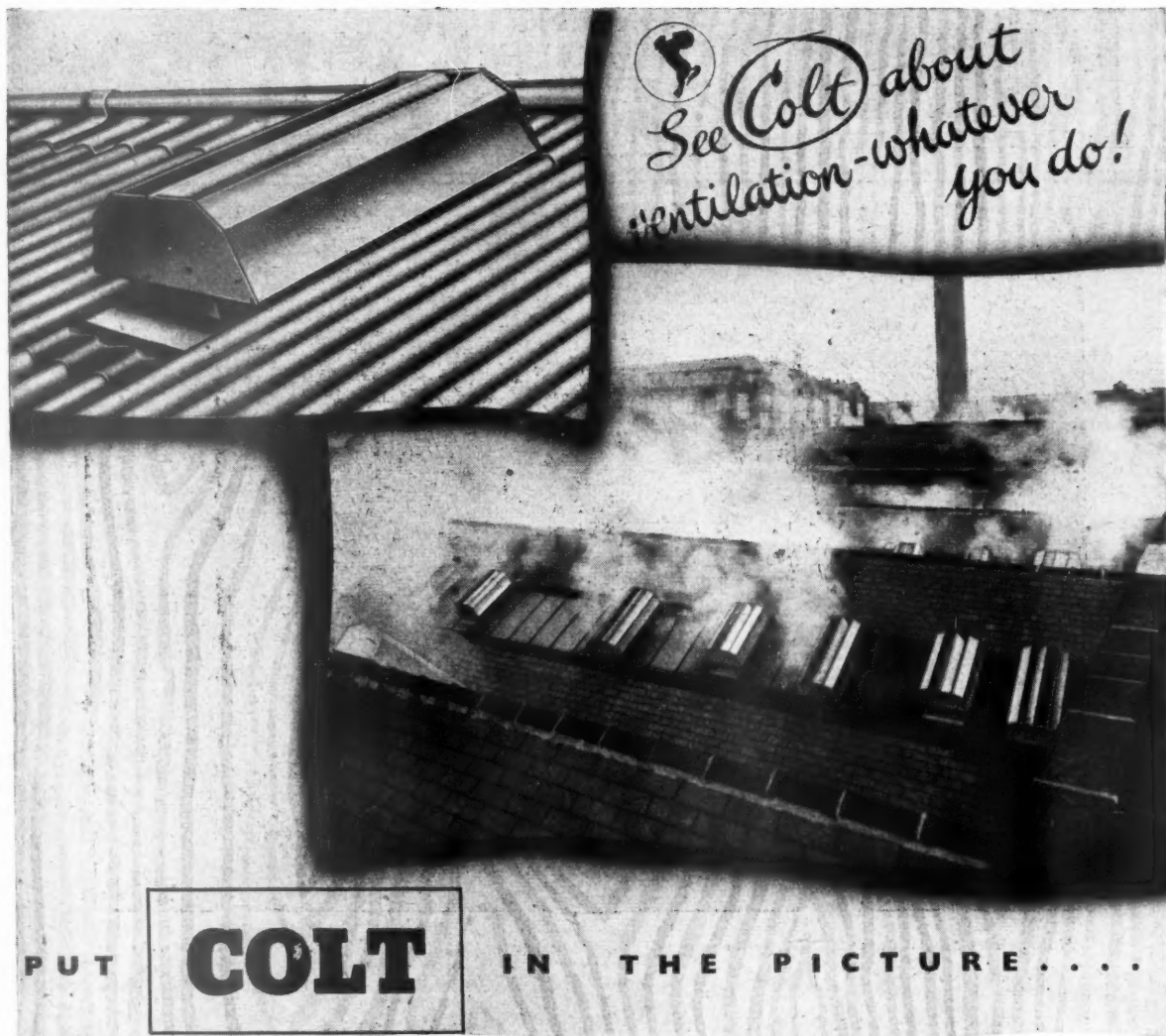
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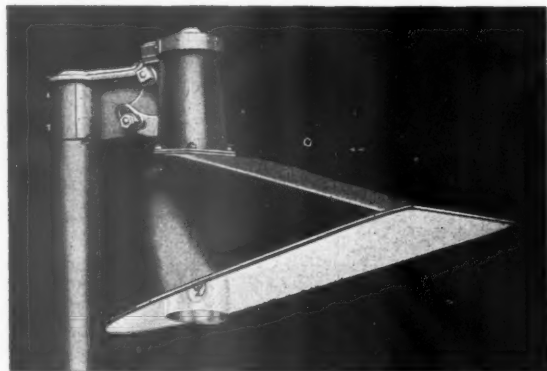
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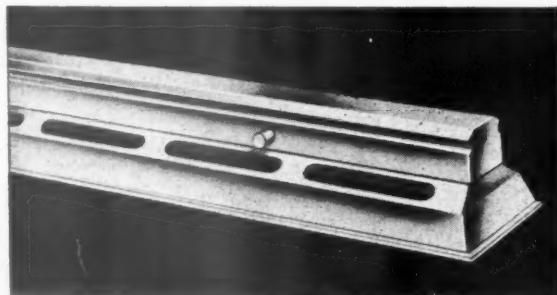
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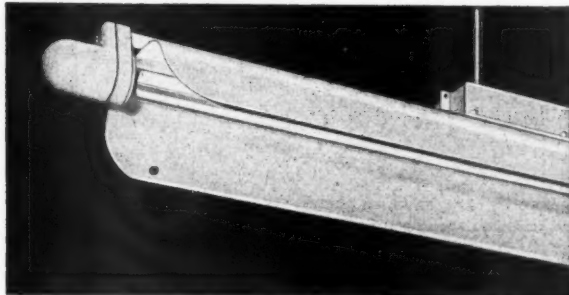
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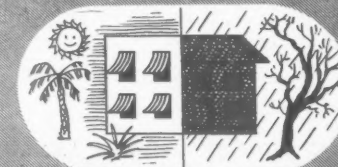
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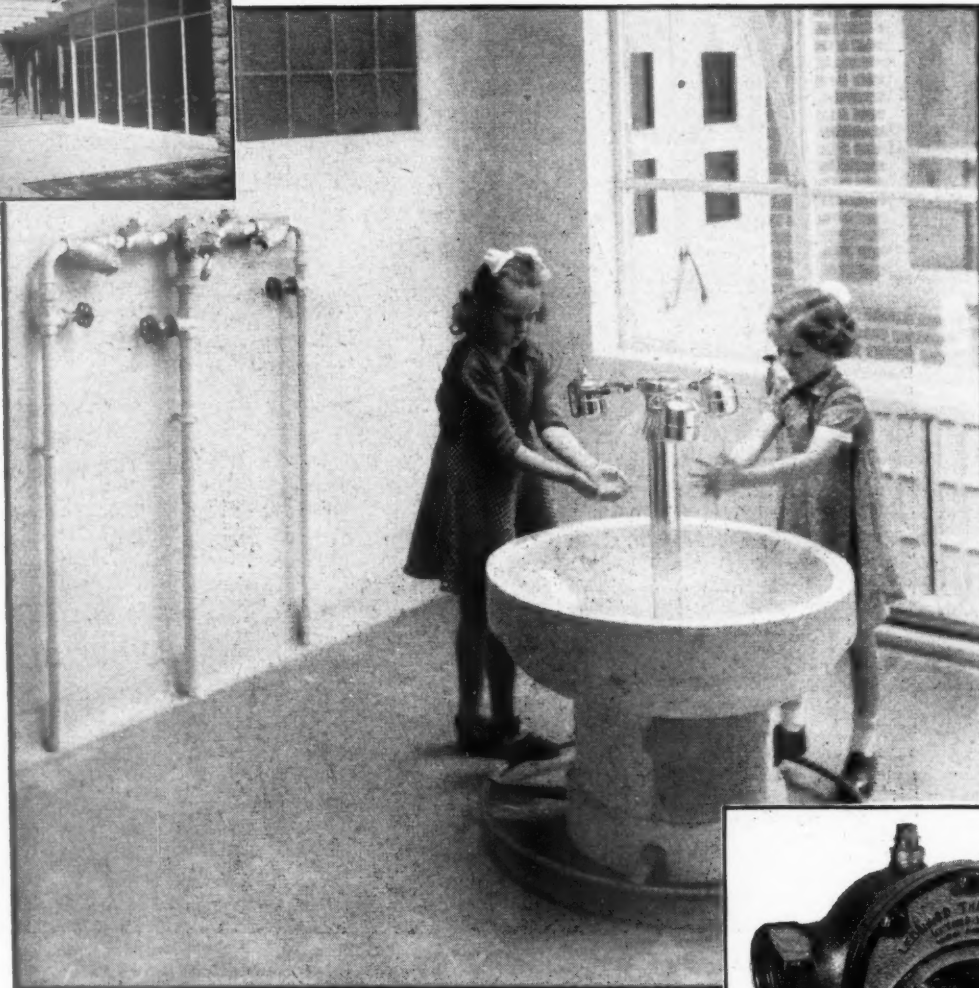


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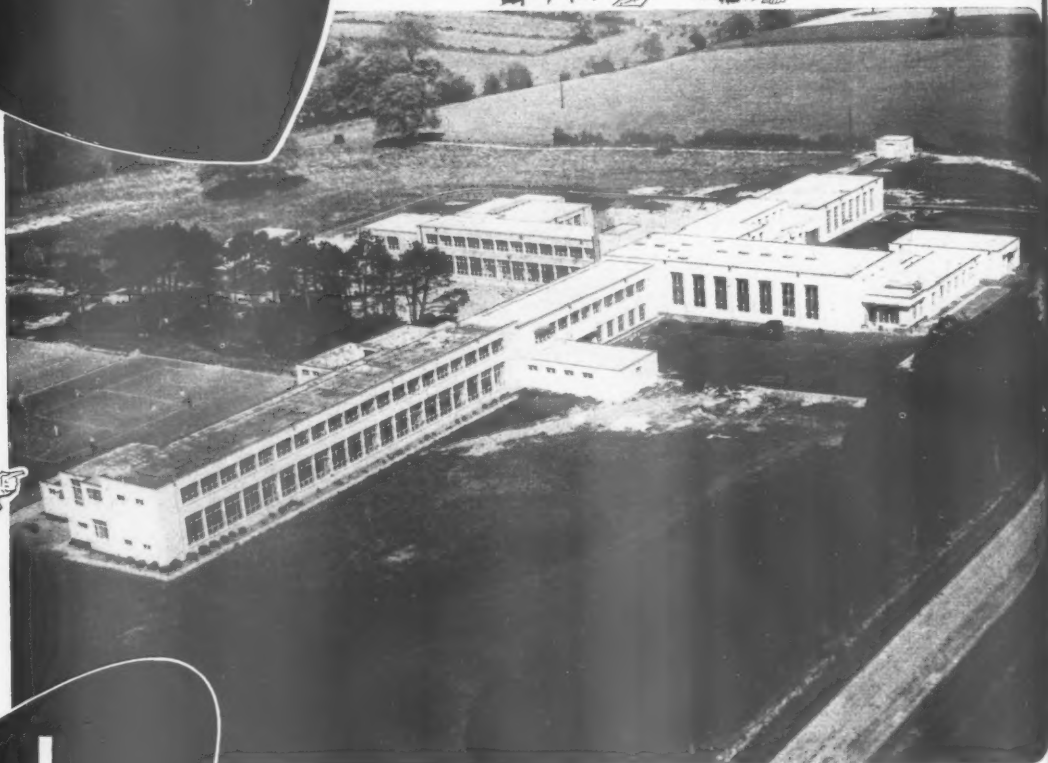
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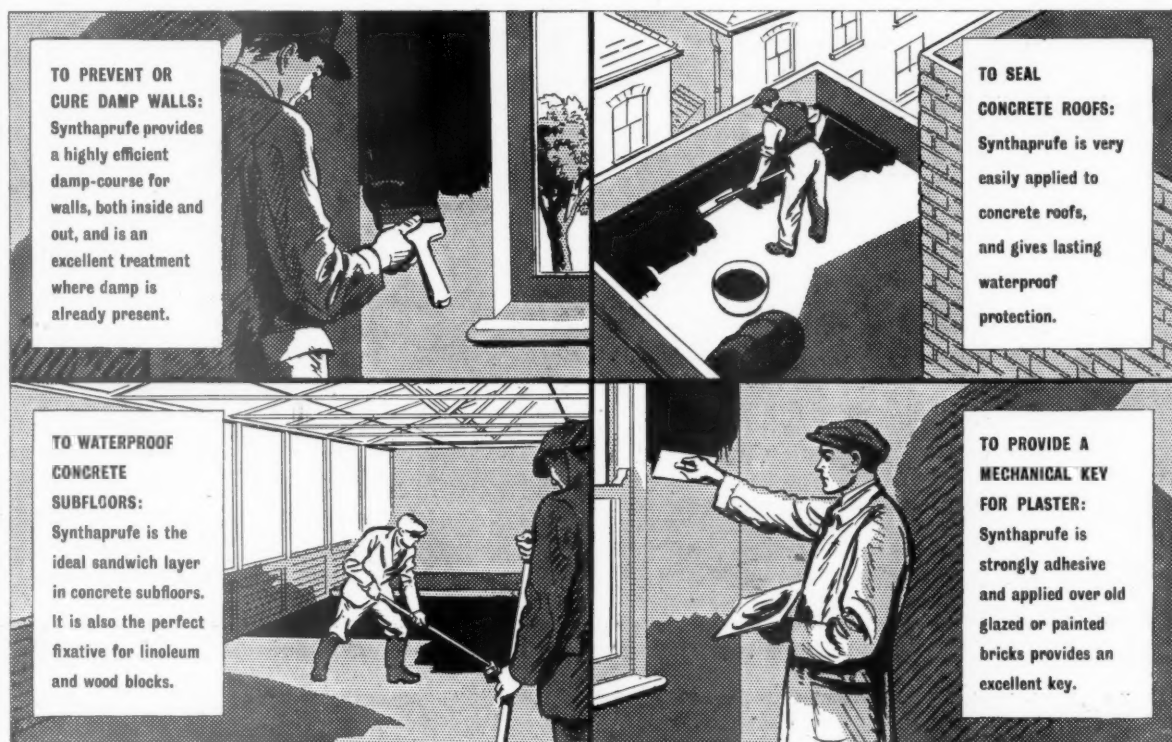
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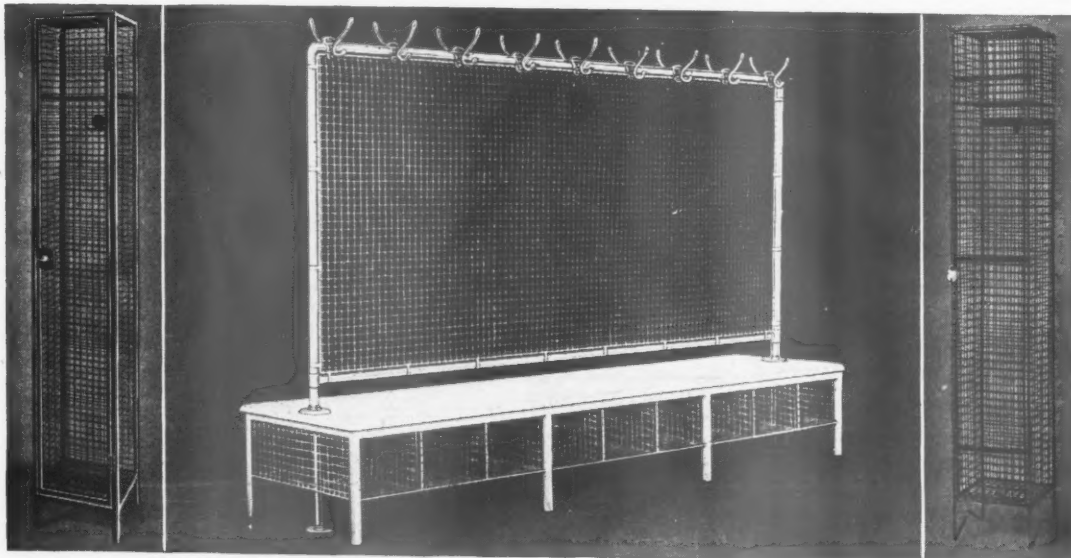
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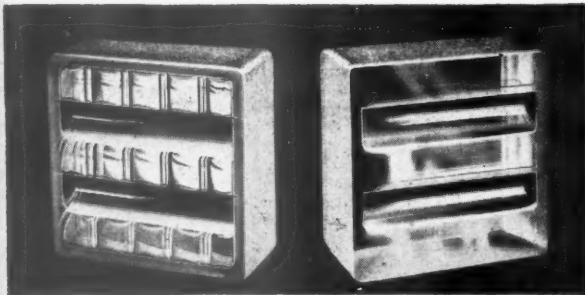
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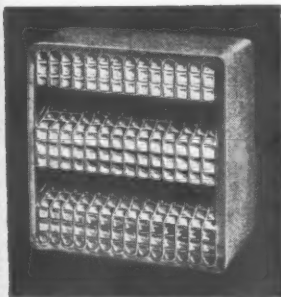
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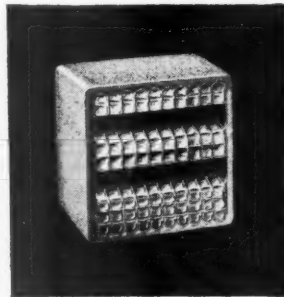
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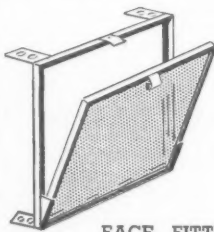
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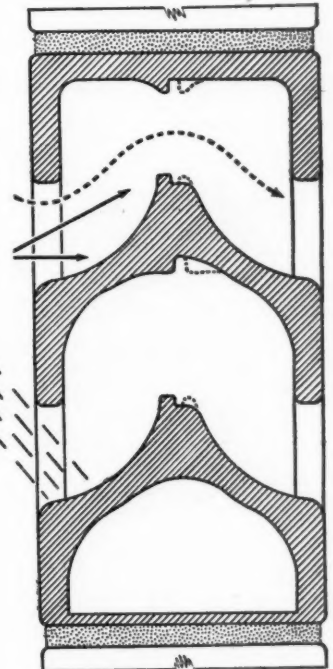
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No. 3004 September 25, 1952 VOL 116

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## REALLY PUBLIC RELATIONS

ASTRAGAL, kissing, for a change, the hand which he normally seems to bite, offers his congratulations to the RIBA, and in particular to the Public Relations Committee, for its enterprise in preparing a series of travelling exhibitions. There has been comment before in this column on the need to impress on the general public the task of, and the value, therefore, of employing, an architect.

Elsewhere in this issue will be found listed the exhibitions which will be held this year and early in 1953 at Portland Place itself. The RIBA has, however, very wisely decided to use its limited

funds to the best effect by, instead of having one major exhibition at the RIBA itself, making a set of special exhibition stands suited to travelling and on which various types of exhibition screens can readily be mounted.

The first exhibition which will be seen round the provinces is, I gather, to be on the subject of housing. In particular, it will cover siting, lay-out and neighbourhood planning. The second will be on the small house built under private licence. The latter is, therefore, of considerable topical interest to the man in the street (without a house) and the former is a subject to which the architect can contribute a great deal more than the general public commonly suspects—particularly those used to the ministrations of over-worked borough engineers, surveyors and parks superintendents.

London, as the Public Relations Committee realizes, has a surfeit of exhibitions—the Provinces quite the reverse. The Committee intends to display its exhibitions in well frequented places, such as the larger department stores, art galleries, museums and public libraries, to catch the public, in fact, unawares, and fascinate it with architectural mumbo-jumbo.

In the hope that it is not too late, ASTRAGAL's plea is for the exhibitions to be so written and displayed that they do not frighten the (architecturally) timid general public with high-falutin' nonsense about Art, History, Styles and our Glorious Heritage, but, instead, tell quietly a sensible, friendly, factual story of what the architect can offer

the public in the way of a well-designed environment.

## SCOTTISH TRIUMPH-TO-COME?

A rumour has been published in the *Daily Telegraph* that Guest Editor of the JOURNAL, Robert Matthew—Architect to the LCC—is leaving County Hall for Edinburgh where he will take over the Chair of Architecture at the University. This cannot yet be confirmed, but, if it is true, many will regret that such an outstanding personality should withdraw from a public office which he—together with his new team of colleagues—has done so much to make into one of the liveliest architectural offices in this country.

However, while discussing appointments, my congratulations to T. A. Jeffries, who has been appointed successor to one of the other Guest Editors—Robert Gardner-Medwin—as chief architect and planning officer to the Department of Health for Scotland. Mr. Jeffries has been deputy chief in the planning department of the DHS for some time and is eminently suited to carry on the brilliant work initiated by his able predecessor.

T. A. Jeffries, Edinburgh student and graduate, and teacher at Rowse's School of Planning, was one of the pioneers of the planning department of the DHS before the war. His new post involves housing, health and educational building, and it is significant that his new appointment coincides with that of Sir William Stuart Murrie to the position of Secretary of the Scottish Educational Department. Here, surely, is an opportunity for that teamwork and initiative which we have seen already at work at the MOE when

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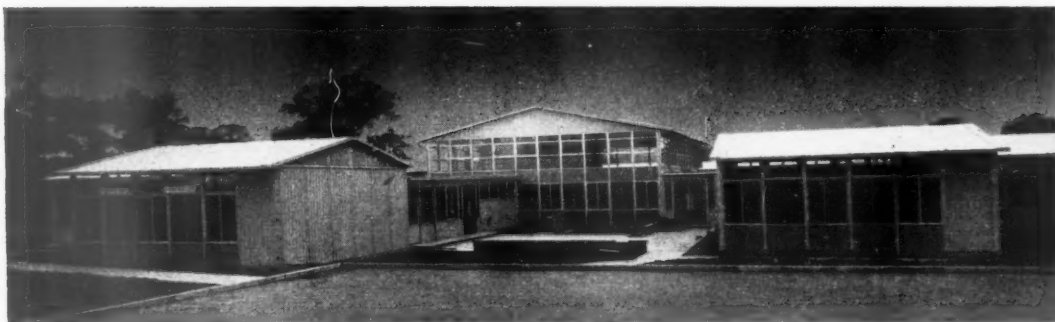
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A new primary school at Coventry built by a further development of the aluminium structural system originated by the Bristol Aeroplane Co. (architect consultants, Richard Sheppard and Partners) in 1948. This school will be fully illustrated in a future issue of the JOURNAL. Astragal, who has seen this school illustrated in the daily papers and has scrutinized Press handouts issued by the MOE and the Bristol Aeroplane Co., greatly deprecates the fact that the names of the architects concerned were not given publicly but only the names of the contractors (Messrs. Gilbert-Ash) and the manufacturer. The architects primarily concerned were M. Smith of the MOE's Development Group and E. C. Tory of the Coventry City Architects' office. Above, general view, right, a classroom.



administration and technicians function smoothly together. We will expect big things soon from two such talented "new brooms" in these key positions.

#### LEAST SAID SOONEST MENDICANT

Two weeks ago, a JOURNAL correspondent, "Mendicant," upped and hit me over the head with his begging-bowl, charging me with "irrelevancy . . . garrulous twaddle . . . ill-mannered diatribes" and general lack of sympathy and knowledge.

As I have always followed the rule of never arguing with mendicants (give 'em the money or don't . . . but never talk it over, is my advice . . .) I won't prolong this largely illusory dispute, except to say that although most of my complaints were, in fact, directed against the writer of an earlier and far sillier letter than his, I still maintain that it is not time to say that "employers are very content with matters as they now stand." What evidence is there, either, to support the assertion that: "architects in private practice oppose any move to curtail the

supply of cheap labour"? What moves are there, in fact, to oppose or, for that matter, to support? Who are these "employers," who take note of the rebel assistants who air grievances at their local associations and then see to it that the latter's careers and prospects are thereby harmed?

My experience of employers—and I've been at both ends of this particular switch-back in my time—is that they don't waste time opposing moves or writing down names in little black books. They spend all their time trying to keep their practices solvent. Of course they want good assistants. Of course they don't want to pay higher salaries than they have to—or than they can afford. And, of course, as "Mendicant" rightly says, the employee has the same right to drive the best bargain he can. But architecture is not a simple trade where "rates for the job" can easily be established, and, so long as it remains so, the problem of surfeit will be solved quickly, perhaps sometimes harshly, as Mr. Herbert suggested in his letter last week, by the law of supply and

demand. If you want a job where promotion and position are determined by seniority rather than by competence, then you are unwise to choose architecture, which, like all creative work, surely must be almost as frustrating as the Stage, as uncertain as Painting, and as ill-paid as Poetry, but as exciting as all these three rolled into one.

#### MENACES ON THE ROAD . . .

In the past I have protested about the American flying-meringue school of car body design, and now I have just seen a brand new effort with a screen-wiper in the back window. So now you really can't tell which end goes first. For safety's sake ASTRAGAL is going to walk only in one-way streets from now on.

#### . . . AND DOWN THE PATH

Wasn't it John Betjeman who started a campaign against Salisbury's deplorable concrete lamp-standards? Since then the struggle has been carried on in a desultory sort of way without much result, but now the COID has taken over the listing of approved designs. The committee responsible has some





### *Un-pleasing Decay*

Fitzharris House (or Manor), Abingdon, Berks., is by no means an architectural masterpiece. It is, probably, no more worthy of preservation than many other country houses. We bring it to the notice of our readers, however, because its present condition, as seen in the photograph above, is due largely to six years of neglect while the house has been in the hands of the Ministry of Supply. The Ministry acquired the estate in 1946 and has built 140 houses in the grounds for scientists employed at Harwell. It was hoped, at first, that the Ministry would restore the house and use it, but it is now to be demolished, on the grounds that restoration would cost too much. A plea for the preservation of the house was made recently in *The Times* by the Friends of Abingdon, and it is claimed by

the SPAB that the cost of repairs need only be one-third of the Ministry's estimate. The origins of Fitzharris Manor, described by the SPAB as "intimately connected with the history of [Abingdon] . . . and its historic centre," date back to Saxon times, when it was granted to Abingdon Abbey. The date of the present building is uncertain, but it was referred to as early as 1573 as the "new mansion house." Much of the early work remains, including two stone mullioned bay windows on the west front and four on the south gable wall. Eighteenth century additions included a new wing on the east side, new bay windows on the west side, and the ground floor entrance, which is over the original 16th century doorway at semi-basement level. (View above, from the south-west.)



good names (see page 374), and there should be some considerable improvement. So far the best news is that about half the designs submitted were not approved. A good beginning.

... AND IN THE ADS.

Finally—while on the subject of road accidents—you may remember that famous one-eyed man shirt advertisement which occupied an uneasy section of ASTRAGAL'S mind some weeks ago, and prompted him to forecast a host of crippled imitators. Well, the first of these has arrived. The current issue of our American magazine shows, in full and gruesome colour, a man once more modelling a shirt, but this time wearing a fingerstall.

#### PRODUCTIVITY AND PIN-BOLTS

In the final report of the Anglo-American Productivity Council the building industry seems to show up tolerably well—at any rate nearly 40,000 copies of their report were sold against an average of about 10,000 for other industries. You may say perhaps that the building industry is so backward that it is only to be expected, but another reason may be the open meetings which were organized by the RIBA and the NFBTE, not only in London but in numerous provincial centres, at which it was arranged for members of the team to be present and to answer questions. At any rate, most of the papers devoted a good deal of space to the report, and there was a lot in it from which both architects and builders could learn. Has there been any change as a result? Not much, so far, but at least it has helped to make builders plant-conscious, especially as far as power hand-tools are concerned. Not a small achievement.

\*

Not, of course, that this plant-consciousness has always penetrated far enough. No doubt you read recently of the tower-crane collapse which brought horrified officials and engineers from all over Europe to investigate the disaster. What happened was this: These tower cranes are, as you may learn, made to fold up for easy cartage, and the crane driver had taken out the key fixing bolt because he said "it got in his way." (Collapse of stout crane and general ensuing relief all round.)

ASTRAGAL

## POINTS FROM THIS ISSUE

RIBA exhibitions : 1952/53 programme .. ..	pages 361 and 368
Experimental primary school at Coventry .. ..	page 363
Amended design for Coventry Cathedral .. ..	page 369

SPECIALIST EDITOR No. 13

## STEEL ECONOMY

**A**NY contribution to the subject of Economy which recommends measures that do not involve reductions in standards deserves a welcome. The first MOW Steel Economy Bulletin\* (see JOURNAL for September 4, page 279) contains 39 recommendations, most of which are intended to save steel by avoiding waste. It is suggested, for example, that full advantage be taken of the most up-to-date design methods; that consideration be given to the pre-stressing of steel, as well as of concrete, structures; and that more use be made of high-tensile steels, tubular members, open-webbed beams, cold-formed members and welding.

It is good to see in a publication of this type recognition of the fact that, for long-term economy, the saving of one particular material (in this case, steel) must not be achieved at the expense of other important requirements, such as economy in manpower, economy in cost, simplicity of erection procedure and flexibility for future alterations. The importance of each of these factors must be fully considered before the degree to which steel requirements can be reduced is decided. Hence, the importance of early collaboration between architect and engineer.

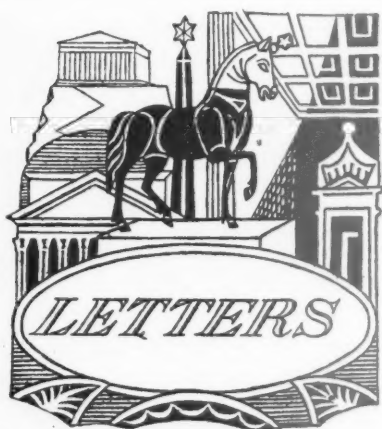
It is suggested that the MOW will bear in mind the recommendations contained in the Bulletin when considering licence applications. Architects who do not normally seek the advice of consulting engineers, but who approach direct steelwork or reinforced concrete contractors, may find this somewhat disturbing—and with good reason. Design staffs have to be paid whether they are employed by consultants or by contractors; in general, when employed by the latter they tend to calculate stresses by the simplest (*i.e.*, the quickest) methods, although these are often extravagant in the use of steel, when compared with the more complicated type of calculation which consulting engineers now use. The point is, presumably, if you employ a consulting engineer you are more likely to get your licence.

Once again, as with the recommendations of most committees on building economy, there is much in the Bulletin which conflicts with the bye-laws; in particular, recommendations concerning prestressed concrete, prestressed steelwork and the use of welding. Once again, we can only hope that local authorities and district surveyors will place no barriers in the way of architects and engineers who act on the recommendation contained in the Bulletin.

One other aspect of the Bulletin requires action by the appro-

\* *The Design of Buildings*. MOW Steel Economy Bulletin No. 1. (HMSO. 1952. 3d.)

priate authority. If the recommendations regarding the substitution of reinforced concrete for steelwork and the increased use of prestressing and tubular members are to be observed, increased supplies of reinforcing rods, high-tensile steel wire and tubular steel will be required, although there should be a corresponding reduction in requirements for rolled steel sections.



*A. H. Hawthorne, A.R.I.B.A.*

*John L. Beckett, M.I.C.E.,  
M.Inst.Mech.E., M.Inst.Mun. E.,  
City Surveyor, Leicester*

*C. A. Fortlage, Student*

*C. L. Ingram*

*Arthur Lindsay, A.S.T.C. (Arch.)  
A.R.A.I.A., A.R.I.B.A.*

*Gerald Stanwell, A.R.I.B.A.*

*John Leaning, Student*

### Salaries

SIR,—Is it not time to put an end to so much of the unrealistic talk concerning architects' salaries? The architect, like everyone else, is paid exactly what he is worth in the universal and infallible "supply and demand" market, which, given its head at the present trend will make a fully qualified and experienced architect readily available at a municipal grade III or IV (it could drop below this, but at this juncture he will probably seek less onerous employment for similar pay). The profession has created a rod for its own back with the advent of the "schools" easily geared to maximum production at the time of peak demand. (The wage control board's dream.) Please note that the Q.S. has no such handicap and no unemployment.

Granted then that it is a matter of supply and demand, what next? The building operatives are looking for an answer—"Prevent unauthorised persons carrying out any building work." Registration council please note. The miners have an answer ready in case of eventuality—"All open cast mining (pre-fabs?) to cease if and when a surfeit of coal becomes apparent." The dockers have an

answer—"Carefully controlled intake (schools please note) and Government subsidy when ships cannot afford to dock." The butchers have an answer—"Government subsidy when there is not enough meat (buildings?) to sell." Now far be it from me to suggest an architect's version of the N.A.U.M. union, but there must be a moral somewhere even if it is only that there are not enough architects to wield a sizeable vote.

A. H. HAWTHORNE.

Cardiff.

### The Time in Sight

SIR,—You will be interested to know that the new Building Bye-laws under the Public Health Act, 1936, have recently been made by the Council and have been forwarded to the Ministry of Housing and Local Government for confirmation by the Minister, and doubtless will be confirmed in due course.

JOHN L. BECKETT.

Leicester.

### Employing Students

SIR,—Recent exhibitions, and in particular the South Bank, have emphasized the present tendency to treat fittings, textiles, and furniture as a part of general architectural design. This tendency seems to show that there is a definite need for individual craftsmanship to supplement the purely commercial materials which are the only available decoration for any building with a limited financial estimate. Works of art by recognized artists are completely beyond the means of any public authority concerned with building for social services; and official architects therefore assume that individually executed decoration is an unattainable luxury.

There is, however, a large number of potential skilled craftsmen available in the building apprentice schemes, technical schools, and polytechnics, most of which organize courses in working wood, stone,

iron, plaster, and other common building materials. These students are interested in their work and are not primarily concerned with making money, so that their commissioning or regular employment by public authorities could be an economic possibility. Craftsmen trained at these schools are capable of creating and carrying out simple forms of decoration; why should they not have an opportunity of using their skill in a way that will help the architect to achieve a variety of richness of expression deplorably absent in low-cost building today?

C. A. FORTLAGE.

London.

### Stop-gap Architecture

SIR,—Why have the local council responsible permitted such ugly and badly planned temporary shops to be built in Tottenham Court Road (Oxford Street end)? Surely they could have insisted on a uniform design of good appearance and handled by a competent architect rather than permit the jumble of temporary shops to have been built without any obvious planning or thought of appearance.

C. L. INGRAM.

Wembley.

### The Linear House: Scale and Colour

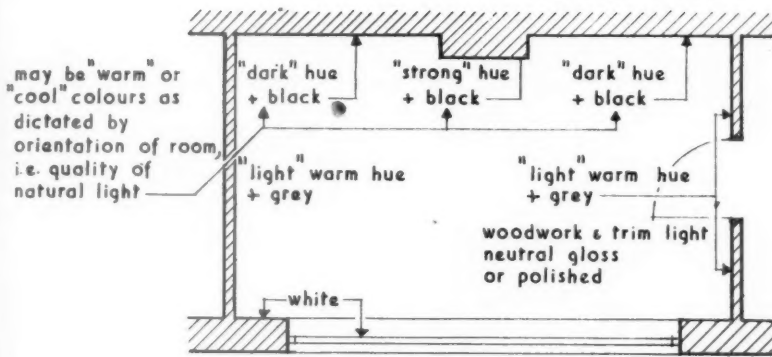
SIR,—The article by Mr. de Wolfe and the subsequent correspondence make interesting reading, if only to show that the psychological aspects of domestic architecture are as yet very imperfectly understood. There is, however, no doubt that the psychology of spaciousness deserves considerable further study, since the sensation of space is related not purely to overall floor area, but is affected—as Mr. de Wolfe and certain of your correspondents have taken care to point out—by proportion and by the "vista."

It is unfortunate, however, that this discussion has not been taken to its logical conclusion on the plane of psychology: perhaps the most potent factors have not even been considered, namely, those of scale and of colour, that is the scale of furniture and equipment, and the relationships of colour for decoration, etc.

It may seem irrelevant to point out that a "vista" becomes pointless, if not incapable of appreciation by the eye, if it is cluttered up with oversized "traditional" furniture. Imagine a "linear" room containing the standard heavy ("uncut moquette") three-piece suite that reaches up to your armpits and that cannot be moved around the room except by a team of horses—horses would definitely be out of scale in such a room—add to this Aunt Annie's wedding present,



*Single-storey temporary shops in Tottenham Court Road, London (see letter above).*



Colour in the linear room (see letter below).

a genuine Jacobethan dresser (with horns that would need to be built into a 7 ft. 6 in. ceiling), and the clumsy 80-year-old unright piano that none but the tallest can hope to see over, and you have effectively destroyed any sensation of lightness and vista! The linear house, or any derivation thereof, cannot be a success until the architect is in a position to control its furnishing, either by education of the public—or by force. Furniture must be in scale with Homo Sapiens and his architectural surroundings.

On the point of colour, it seems hardly necessary to point out that intelligent decoration is an essential to the success of a "linear" room. Yet, how often does the architect know what to prescribe? How often is he consulted on colour schemes? How frequently is sensible design ruined—if not annihilated—by the decision to use ivory or cream throughout a house? The correct procedure, of course, is the careful use of several shades and hues of colour within a room, to increase the apparent size of the enclosed space. Let me illustrate this point:

By the use of such principles, areas (around the window, etc.) which normally appear dark are "pushed out" by being lightened, and wall areas opposite the natural light source within the room are made to recede similarly by the use of heavy colour plus black, whilst the short lateral walls are allowed to "remain" in their normal relation by neutral colouring plus the use of light intermediate hues. The ceiling and floor colours should fit in logically by the use of monochromatic variations of the lateral walls, or their complimentary contrasts.

Such a proposal may not be popular with painters—at first, that is, until they realize the effectiveness of it—because it means that brushes have to be cleaned repeatedly; but let the scoffers try it in a room within their own houses, and they will scoff no longer. Further, where a very long and narrow space is to be decorated, a rich warm saturated colour (one of the deep reds) will "pull in" the end wall tremendously, whilst saturated hues should otherwise be carefully avoided.

The sensation of colour is psychological. If architecture is forced to exploit volume to its utmost, sensitive "colour-scheming" is essential, and the importance of consulting the architect in this field cannot be too highly stressed.

To sum up: the psychology of "apparent space" is the essential factor of economy planning. The scale of furniture and the correct relationship of colours, together with the "vista" of the "linear" room are the basic components of the solution, but in order that the solution be made effective, all three must be under the control of the architect.

ARTHUR LINDSAY.

Derby.

## Limits to the Profession

SIR,—I am not entirely averse to the rousing sentiments of Peter George Hemingway, who states rightly in his letter (July 31) that "Positive action and less apprehensive propaganda is required."

Also having worked as an architect in West Africa (Freetown to be exact), I sympathize with his present feeling of frustration as to the future of the architectural profession, but I cannot agree with his "fifty per cent." pessimism.

Of course the profession is overcrowded. It is in America, too. But so are the other professions—medicine, teaching, music, and such like romances as writing, acting and commercial travelling. There are other things overcrowded too—the start of a steeple chase, the House of Commons at an intense debate and queues for the horses, dogs and cinemas. But Mr. Hemingway also tilts at his concept of "a vast ill-organized production line" of eager new students.

By all means step up the standard of general education for would-be recruits. The minimum should be matriculation or equivalent, but if a student has had an expensive architectural education and he is determined to serve his country with his specialized training, I cannot see that there is any force, condition or circumstance to prevent him doing so, not even if there were twice as many entrants jostling to enter in. Only experience will convince the student that this is so. Mr. Hemingway, perspiring in the tropical heat of West Africa and no doubt longing to get home, writes "the only course left is to drastically reduce the number of entrants into the profession."

Having enjoyed three happy years of constructive lectureship in an English technical college, where the training of would-be architects was a whole-time activity, and now having emigrated to the mid-west of a comparatively young continent, I feel gratified to comment on this statement. Diplomatic and wise discouragement of the obviously unsuitable must go hand in hand with the even wiser and wider encouragement of the least ability towards a constructive bent, be it musical, architectural or literary. After all, of what difference is it to the world—to train as a mathematician, physician and astronomer and become a Christopher Wren, or train in the line of a Basil Spence and eventually become a constructionist or a skilled physician? One constructive activity often prepares for another, and I would add, there is no drastic need for any man or institute to become over-responsible in regulating the supply and demand. An abundance of keen, observant, discerning architecturally-minded citizens would never be unhealthy

for any community or country. If a traveller in high-style tailoring could not justify his early training as an architect, he would surely be a poor salesman for any profession. I have much more to say on this subject. I am told there is a shortage of architectural construction going on in the States, but I found architectural work very quickly. Others can do likewise, in any country.

GERALD STANWELL.

Saint Paul, Minnesota.

## Educating the Architect

SIR,—As an architectural student just having emerged from school life into the outside world, while deploring the fact after five years or more of training we now have much difficulty in getting a job at all, I cannot help sympathizing both with any prospective employer and with my fellow graduands on the whole matter.

Looking back on our school career—in any school, whether we went to the heights of pseudo-scientific fantasy or were steeped in neo classic design—one cannot wonder that the hard world cannot afford us.

To see in true perspective, it hardly seems rational that in order to qualify to take responsibility in designing our everyday environment, to adjudicate on the right and economic use of building materials, we should all become recluses for five years, thinking in hypothesis and feeding on secondhand information from lecturers and books.

It is true we can and do get direct information if we so wish and that some schools have sufficient gumption to send students for a (usually very small) part of the course to offices, sites and factories. But all this is so half-hearted that comparatively few can work up enthusiasm for "playing at architects."

The apparent advantages of the school system as against apprenticeship or private study are that students can get together to receive and exchange ideas (in theory, at any rate) and that they should have opportunity to express ideas free from the limitations of commercial economy. But that students should also be lectured on what they could better learn in an office in the same time is, to say the least, ludicrous.

Small wonder that architect employers' eyebrows go up when they hear what the average student has (or rather, has not) learnt under the headings of building construction, draughtsmanship, professional practice and sundry others.

Might it not be possible to interlace the school and office work so that in every week of the course the students spend, say, half in exploring the realms of his idealism and in scientific study and the other half in the grim reality of practice; thereby, incidentally, enabling some of us to pay part of our way instead of being such a heavy drain on the public economy as at present.

The RIBA's latest regulation demanding a year's office work before qualification, which will come into operation in 1955, is no answer, merely a considerable annoyance, as students will still waste the bulk of their five years, besides which a year's office work is barely enough to produce a competent junior let alone an architect.

Undoubtedly it is a hard job for the profession, under any system of education, to produce good architects in five years; but is it really beyond the RIBA and the profession to do something to ensure that students are a little less ignorant of the realities of live architecture when they come out than when they entered school five years before?

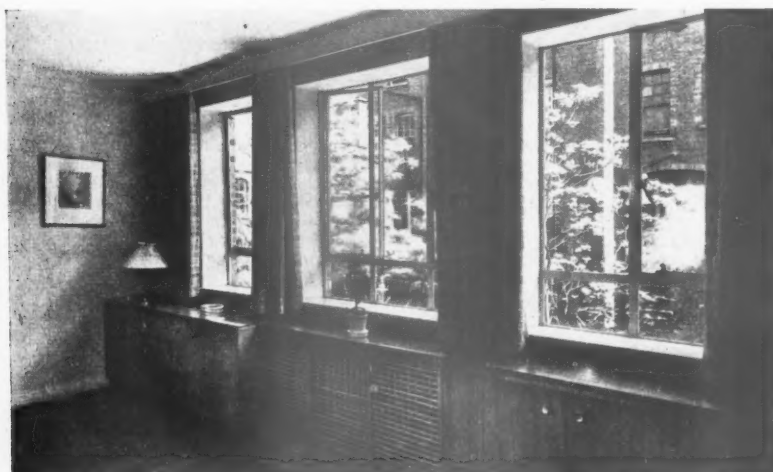
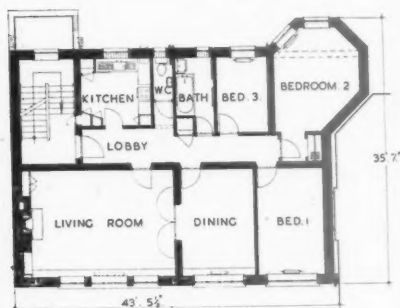
JOHN LEANING.

Sweden.



## PRIVATE FLATS IN KENSINGTON

The block of flats in Kensington, shown on the right, was designed by R. Felinek-Karl for a private owner. A typical floor plan is shown immediately below. The construction is of load-bearing brick walls; the roof consists of precast concrete beams with hollow tiles and foamed slag



insulation. Timber floors are insulated with a glass wool blanket. There is one flat on each floor, and two views of a typical living room are shown above and below. The walls and ceilings are distempered in ivory-pink, the carpet is steel blue and the sectional settee is covered in a grey-brown tweed. Wall panelling is in "fiddle-back" polished mahogany. The contract price was £21,000. The general contractors were Holliday & Greenwood, Ltd. For sub-contractors see page 390.



## RIBA

*Exhibitions for 1952-3*

Two centenaries of architects are to be commemorated this autumn by exhibitions at the RIBA. The first, that of Augustus Welby Pugin, will be marked, it is hoped, by a small exhibition of sketches and books by Pugin, and Mrs. Phoebe Stanton will read a paper on Pugin to an open meeting of the Library Group.

The second, the tercentenary of Inigo Jones, is to be marked by an exhibition of material from the Institute's collection and from Chatsworth, and Professor Wittkower will lecture on Inigo Jones on December 9. The material for the exhibition, which will remain open until the end of the year, is now being assembled with the advice of Professor Geoffrey Webb and Dr. Margaret Whinney.

These two exhibitions will be preceded by a small exhibition of Irish architecture, prepared by the cultural relations committee of the Department of External Affairs for Ireland. The main work of selection and preparation was undertaken by the Royal Institute of the Architects of Ireland and the exhibition contains examples both of historical and contemporary work. It is expected that the exhibition will be open from October 14-31.

Early next year an exhibition of Dutch architecture is to be held—the first ever to be staged at the RIBA. It is understood that part of the exhibition will be devoted to illustrating the new towns and villages being built in the North East Polder and the re-planning of Rotterdam and other cities.

In April an exhibition of mural painting is to be held, sponsored by the Society of Mural Painters. The purpose of this exhibition will be to demonstrate how mural painting can be used to enhance and enrich contemporary buildings. The murals are being specially painted for the exhibition by well-known artists, and each mural will be displayed in an appropriate architectural setting; this will be the first time that such an exhibition has been arranged in this country.

There will be no major exhibition of the work of British architects at the Institute during 1953, as it is felt that more should be done to make architectural exhibitions available in the Provinces. The Public Relations Committee will, therefore, be arranging a number of travelling exhibitions, which they hope will be shown in libraries, art galleries, town halls, schools, department stores and other places where a "ready-made" public exists.

The first of these travelling exhibitions, which will be ready early in the New Year, will deal with housing—particularly the problems of siting, layout and neighbourhood planning—the object being to demon-



strate to the "man-in-the-street" the advantages to be gained by employing architects on this work. The second exhibition, which will be designed as soon as the first is ready for touring, will deal with the small house—particularly the type of house which can be built under private licence. It is hoped to arrange for each of the travelling exhibitions to be on view in London for a short time prior to their provincial tours.

### 1952-53 Scholarships

A RIBA 4th and 5th year maintenance scholarship of £60 per annum has been awarded to J. A. Hughes of Abersoch, Caerns. A Howe Green 4th and 5th year maintenance scholarship of £40 per annum has been awarded to G. C. Freer of Reading. Nine maintenance scholarships previously awarded have been renewed.

### MOH

### Health Centre Opened by Minister

The first health centre designed and built for the national health service was opened last week by the Minister of Health, Iain Macleod. Situated on the Knowle West housing estate, Bristol, the centre, which has cost £20,000, provides surgery accommodation for 6 general practitioners, which can be used as a maternity and child welfare clinic outside surgery hours. It will cater for the 20,000 residents on the estate and will be the headquarters of the local health authority's domiciliary services. (Architect: J. Nelson Meredith, city architect.)

[There has been much criticism, particularly by the younger members of the medical profession, of the failure of successive post-war governments to build more health centres designed specifically for the purpose. The health centre has been described as the corner-stone of the health service.]

### SCOTLAND

### £300,000 University Extension Opened

A five-storey extension to Aberdeen University, designed to house the new chemistry department, was opened last week by Sir Robert Robinson. The building, which has taken over two and a half years to erect, has cost more than £300,000. It was constructed with load-bearing walls of solid granite of three hues—red, brown and grey. (Architects, Pite, Son and Fairweather.)

### LMBA

### Apprentice Masons Compete for Annual Prizes

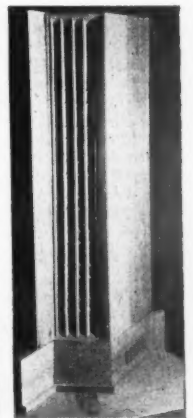
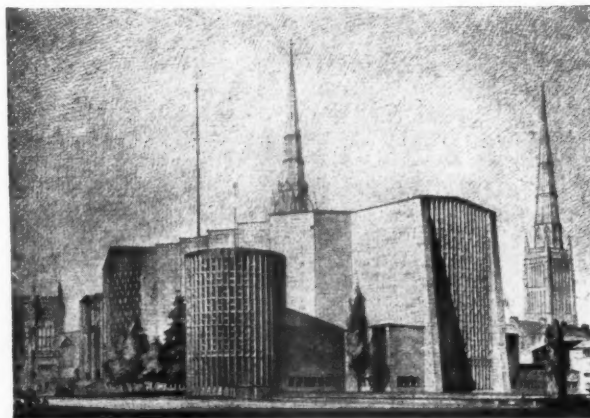
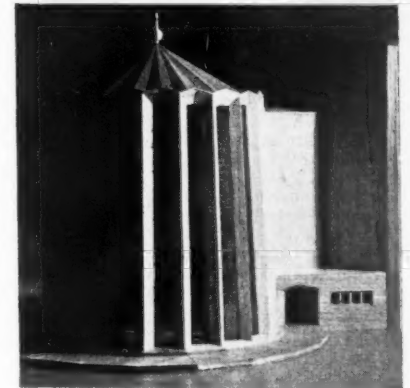
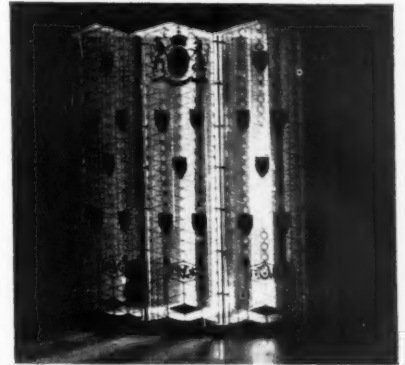
There was a record entry of nearly one hundred competitors at this year's annual competition for mason apprentices, organized by the London Association of Master Stonemasons. In addition to the London examination there was a contest between boys from Portland and the London boys. The contestants were divided into five groups according to the period of time served.

Addressing the apprentices at tea after the competition, D. E. Woodbine Parish, president of the LMBA, said that it was obvious that everyone who had witnessed the enthusiasm and skill which the young stonemasons had displayed in the various tasks set for the competition had been most favourably impressed. Stonemasonry was undoubtedly the

### COVENTRY CATHEDRAL: MORE AMENDMENTS

*Models have now been made to show some of the latest amendments that Basil Spence has made to his design for Coventry Cathedral. (These were approved recently by the Cathedral Reconstruction Committee, the Cathedral Council and the Joint Council for Christian Service Centre.) The photograph on the right shows the wrought iron screen which is to separate the Chapel of Unity from the main body of the Cathedral; it contains three pairs of gates. Below this is the Chapel of Unity; the eaves are now serrated in order to make them "more in sympathy with the general conception of design." Below right is one bay of the east elevation; the hallowing place windows have been made narrower, so as to make*

*the projections less pronounced, and there are now three mullions instead of four. The perspective shows a view of the amended design from the north-east. In the foreground is the Guild Chapel, the treatment of which has been lightened, by reducing the size and increasing the number of mullions. Other amendments include the raising of the roof over the "east" end and the placing of the organ chamber within the body of the cathedral—both these alterations will tend to simplify the exterior. The columns supporting the ceiling of the cathedral are now to taper downwards and to be poised on pivots of ball bearings or crystal.*



king of building crafts; it had traditions reaching far back into the centuries. The great cathedrals and other fine stone buildings in this country, which were the delight of ourselves and the many visitors who came from overseas, were magnificent living monu-

ments to the craftsmanship of stonemasons throughout the ages. The apprentices would no doubt be proud and quick to appreciate their responsibility for carrying on the age-old tradition of these superb craftsmen of bygone years.

## MOHLG

*Ministry's Architect Touring Europe*

Ernest Marples, Parliamentary Secretary to the MOHLG, is at present touring Denmark, Germany, the Netherlands, Sweden and Switzerland on a 12-day, fact-finding tour. He is studying methods of housing construction in European cities, and is accompanied by J. H. Forshaw, chief architect and housing consultant to the Ministry.

*LCC Development Plan: Public Inquiry*

Nearly 6,300 objections will be heard at the public local inquiry into objections to the LCC Development Plan to be opened at the Central Hall, Westminster, at 10 a.m. on Monday, September 29, where it will continue, beginning at 10 a.m., on each of the two following days. On Friday, October 3, it will re-open at the County Hall, Westminster Bridge, where the remainder of the inquiry will be held. There will be no sitting on Thursday, October 2. The Minister of Housing and Local Government, Harold Macmillan, has appointed his Chief Inspector of Special Inquiries, K. S. Dodd, to preside. Mr. Dodd will be assisted by R. A. Youll, F. H. Carr and J. L. Wetton.

To meet the convenience of the large number of objectors various special arrangements have been made. The Central Hall, which has been taken for the first sittings, can seat more than 2,500 people. This will enable many of the objectors to attend the opening session as well as at the time when their own objections are heard. For the benefit of those who cannot attend, arrangements have been made to print copies of the Chief Inspector's opening statement about the conduct of the inquiry and of the opening address by Counsel for the LCC on the plan as a whole. These will be available to objectors on application to The Solicitor to the Council (Ref. LP/01), London County Council, County Hall, S.E.1. There will be opportunities for objectors to put questions of a general as well as of a particular nature when their objections are being heard.

All objectors, or their agents, who have signified their intention to attend, or be represented at the inquiry, will be notified of the date on which it is expected that one of the inspectors will begin to hear the borough lists containing their objections.

A development plan for the County of London was submitted to the Minister on December 31, 1951. The period envisaged by the regulations for lodging objections to a development plan is six weeks from the date of the first public advertisement of submission. But the LCC fixed March 15, 1952, as the last day on which objections could be lodged, thus allowing a period of nearly ten weeks. After further representations, the Minister decided he would continue to record objections received up to August 16, 1952.

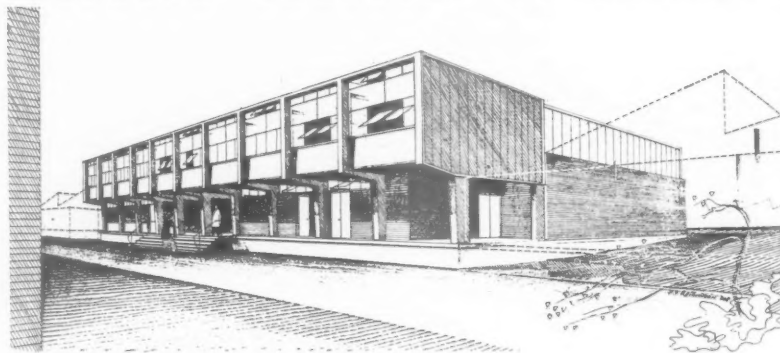
*Buildings of Historic Interest*

Three lists of buildings of special architectural or historical interest (compiled under Section 30 of the Town and Country Planning Act, 1947) have been deposited at the offices of the Minister, by the County Borough of Doncaster, the Urban District of Llangefni and the Rural District of Liskeard.

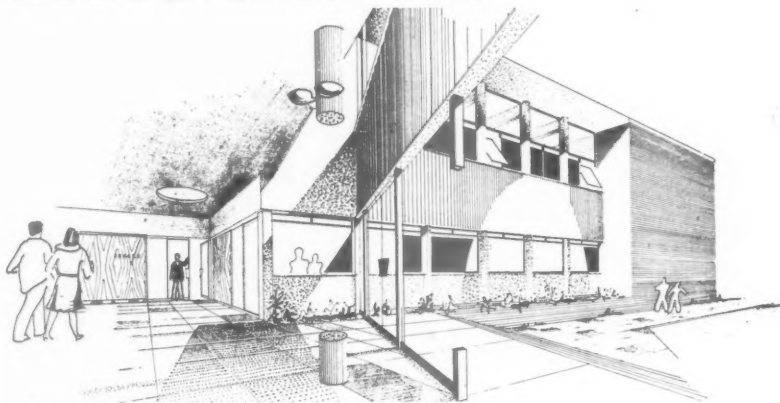
Including buildings listed on supplementary schedules, the Minister has approved sixteen buildings in Doncaster, including the

(continued on page 373)

## PROPOSED COLLEGES OF FURTHER



Nelson, view A [for viewpoints see ground floor plan]



Nelson, view B

The proposed colleges for Further Education illustrated on this page and the following four pages are typical of six projects now in hand in Lancashire. The team of architects responsible, under the direction of G. Noel Hill, County Architect, are G. S. Pester, J. Nicholls, C. A. Spivey, A. Whitehead, G. L. C. Rossant, J. M. Forbes, P. T. Remnison and A. Wilson. The original plans have been amended, due to recent economy measures and the necessity to build in phases. Each college will cost about £100,000. The phases, which are shown on key plans with each of the three schemes



Nelson, view C

## EDUCATION IN LANCASHIRE

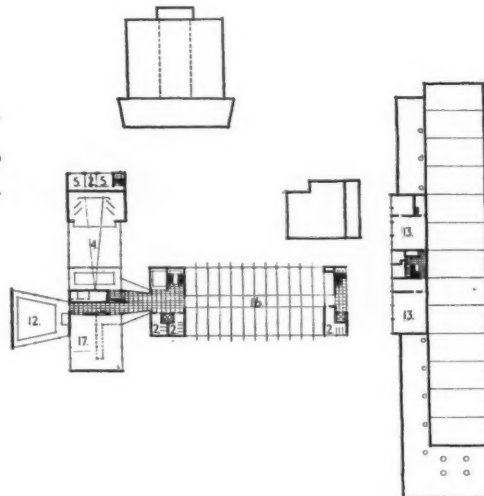


Nelson, view D

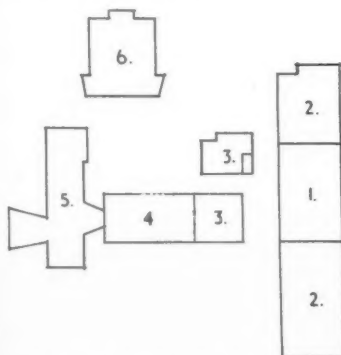
illustrated, are designed as self-contained units. In accordance with the MOE recommendations, the earlier phases consist of workshops, heavy laboratories and teaching areas, leaving communal and social accommodation to the future. Care has been taken that noise and vibration will be confined to those portions of the scheme where it is least likely to cause nuisance and rooms requiring similar services and having heavy floor loadings will be appropriately grouped. In all cases the communal and social zone has been planned for use by the public without interfering with the normal use of the college. The college for Nelson, illustrated by three sketches on the opposite page and above (for view-points see ground floor plan) will be on a site bounded on three sides by a stream, which is liable to flood periodically. The site overlooks industrial property along the north boundary;

## KEY

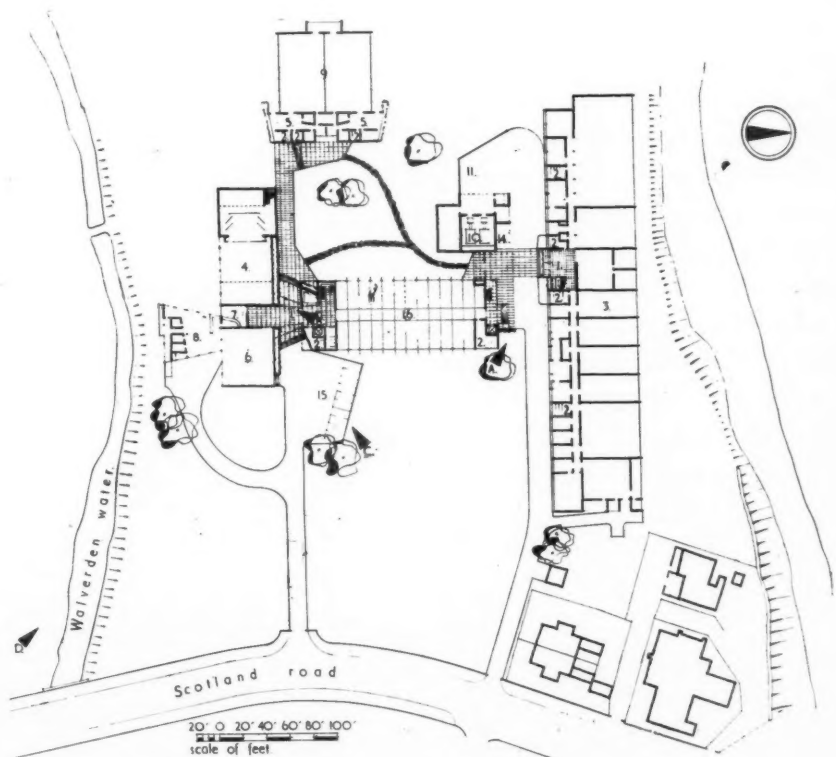
1. Entrance hall.
2. Lavatories and cloaks.
3. Workshops.
4. Assembly hall with balcony.
5. Dressing and changing.
6. Dining hall.
7. Cafeteria.
8. Kitchen.
9. Gymnasium.
10. Boiler house.
11. Fuel storage.
12. Lecture hall.
13. Laboratories.
14. Cycle park.
15. Car park.
16. Teaching block.
17. Youth service.



Nelson, first floor plan



Nelson, key plan showing building phases



Nelson, ground floor plan

## PROPOSED COLLEGES OF FURTHER EDUCATION

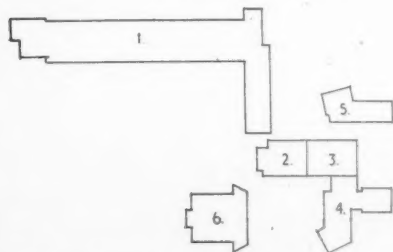


Ashton-under-Lyne, view E (for viewpoints see ground floor plan)

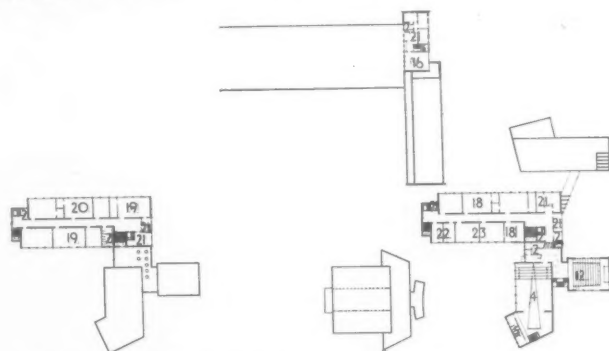
## KEY

1. Entrance hall.
2. Lavatories and cloak.
3. Workshops.
4. Assembly hall with balcony.
5. Dressing and changing.
6. Dining hall.
7. Cafeteria.
8. Kitchen.
9. Gymnasium.
10. Boiler house.
11. Fuel storage.
12. Lecture hall.
13. Laboratories.
14. Cycle park.
15. Car park.
16. Building dept.
17. Engineering dept.
18. Science dept.
19. Domestic dept.
20. Girls' craft.
21. Staff and admin.
22. Textile dept. (part).
23. County College (part).

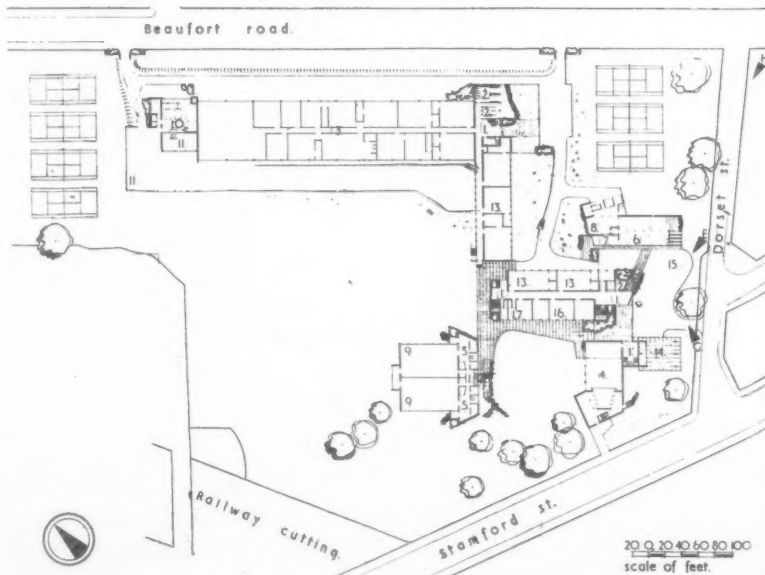
because of this and because of the need for extension in two directions, the workshop block is planned as a screen between the north boundary and the main buildings, which will be developed progressively in phases, in a southerly direction. The multi-storey teaching block will comprise stages 3 and 4, and is sited with its access running north and south at right angles to the workshops; thus ensuring that no teaching rooms will have a sunless aspect. Appropriate precautions will be taken against flooding and in view of the poor load bearing qualities of the soil, the buildings will be carried on pile foundations and ground beams. The proposed college for Ashton-under-Lyne is shown in sketches above and on the opposite page. The siting of the



Key plan showing building phases



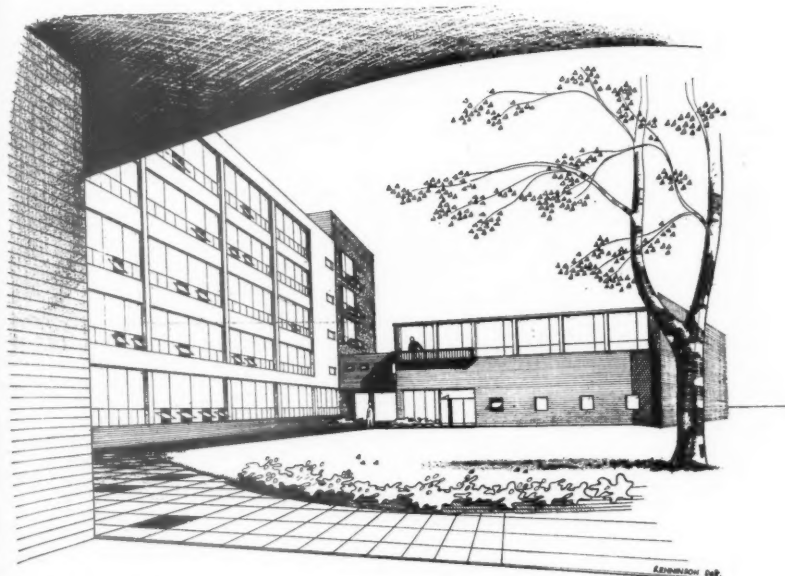
Second to fifth floor plan First floor plan



Ashton-under-Lyne, ground floor plan

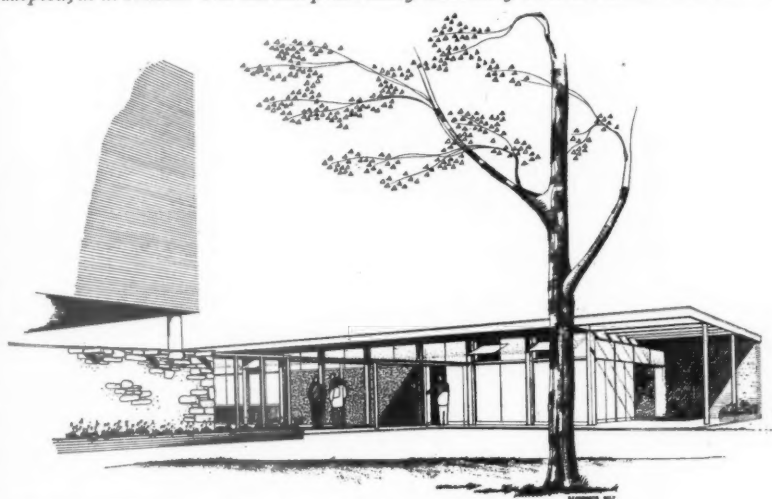


## IN LANCASHIRE (continued)



Ashton-under-Lyne, view F

buildings has been guided by the undesirability of major access from both of the main roads shown on the plan. To avoid this, the principal buildings are planned at the south-east corner of the site with access from Dorset Street, the only other access being a subsidiary one to serve the workshops. The siting has been further influenced by a fall of about 15 ft. from north-east to south-west and by a town sewer crossing the site. As the area consists of made-up ground, pile and ground beam foundations have been adopted, as at Nelson. The workshop and heavy laboratory block are under construction.



Ashton-under-Lyne, view G



Ashton-under-Lyne, view H

(continued from page 370)

Wool Pack Hotel in the Market Place; seven buildings in Llangefni, including the former gaol in Field Street, and twenty buildings in Liskeard, including the house of Jonathan Couch at Polperro.

The Minister has amended the schedule relating to Doncaster by excluding the Waterdale Museum and Art Gallery. The list relating to Liskeard is an interim one, pending the production of a full list for the area, which is in course of preparation.

## Orders for Water Pipes

The Minister of Housing and Local Government, in Circular No. 66, reminds water undertakings and housing authorities of the long delivery periods quoted by the suppliers of cast iron pipes, particularly orders placed for the smaller ranges of pipes.

Under present conditions, states the circular, it is clear that water undertakings must be ready to place orders for pipes to serve new houses many months in advance of the time that the pipes are required. If pipes are not ordered at least 18 months ahead, there is a possibility of new houses otherwise ready for occupation remaining unoccupied and waiting for a water supply.

If the housing authority is not the statutory water undertaking, it is essential that they should keep the latter fully and punctually informed of future housing programmes, including houses to be provided by private builders. The Minister urges the need for much closer exchange of information between housing authorities and water undertakings.

## SCOTLAND

### Role of Non-Traditional Houses

"There is a limit to the saving that can be made by simplifying designs," said T. D. Galbraith, Joint Parliamentary Under-Secretary of State for Scotland, recently. "We will also have to look for savings that may be made by more efficient planning and higher productivity," he continued. "Such savings are not easily made, but the need for them is vital."

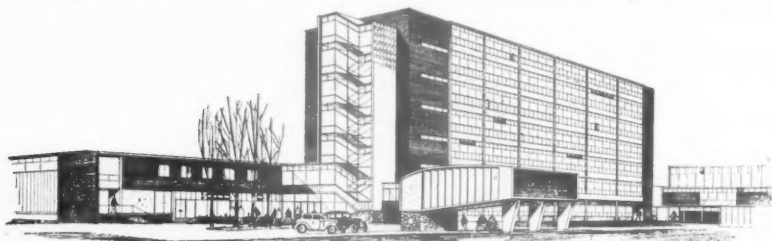
Commander Galbraith was discussing ways of reducing building costs with representatives of the non-traditional building industry in Scotland. "Space-saving" houses of traditional construction had been designed by the Department of Health; now non-traditional builders were working on similar designs for non-traditional houses. Commander Galbraith expressed the hope that local authorities would be quick to take advantage of this, as "the non-traditional house has a very big part to play in Scotland's future housing."

### Housing Progress

One thousand, eight hundred and twelve new permanent houses were completed in Scotland in July, bringing the total of houses completed this year up to 16,032. At the same date last year the number of houses completed was 12,153. In 1950 the number was 14,925.

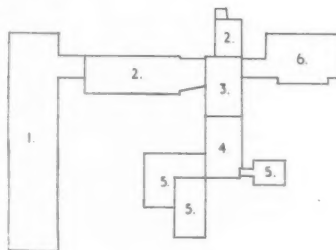
The number of new houses built in Scotland under the post war programme now stands at 162,033 (129,857 permanent and 32,176 temporary). Including accommodation made available by the conversion and adaptation of existing premises, requisitioning and in service camps, altogether 173,459 new homes have been provided.

## PROPOSED COLLEGES IN LANCASHIRE (continued)



Lancaster and Morecambe, view A (see ground floor plan)

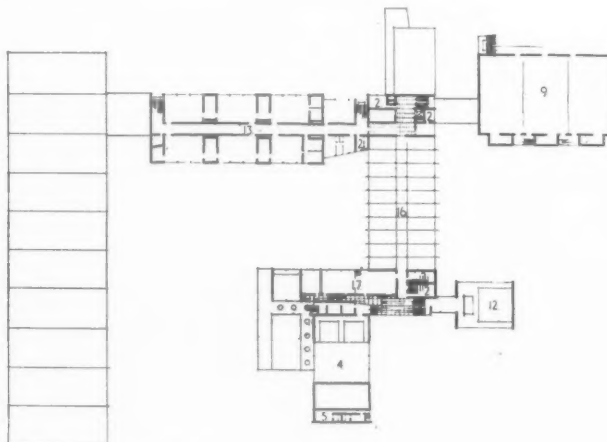
The Lancaster and Morecambe college, illustrated on this page, is sited on low-lying land near a tidal estuary. The site is level and is drained by a system of dykes into the River Lune. As at Nelson, precautions against flooding are being taken. The workshop block, now being erected, is placed to the west and will be joined to the main teaching block by heavy laboratories.



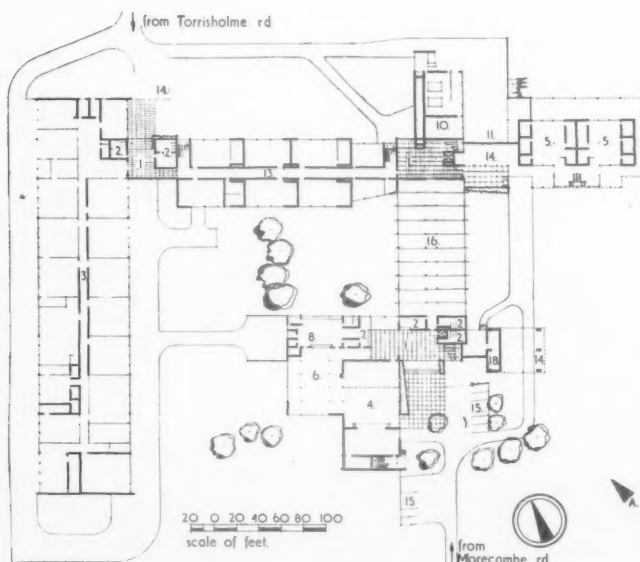
Key plan

## Key

1. Entrance hall.
2. Lavatories and cloak.
3. Workshops.
4. Assembly hall with balcony.
5. Dressing and changing.
6. Dining hall.
7. Cafeteria.
8. Kitchen.
9. Gymnasium.
10. Boiler house.
11. Fuel storage.
12. Lecture hall.
13. Laboratories.
14. Cycle park.
15. Car park.
16. Teaching block.
17. Youth service.
18. Garden equipment.



Lancaster, first floor plan



Lancaster, ground floor plan

## COID

## Better Lamp-Posts

The listing of approved designs of street lamp posts has been taken on by the COID at the invitation of the Ministry of Transport. The lists will be available for consultation by local authorities and other interested organizations. The COID has accepted responsibility for maintaining these lists as from January 1, 1952. They have appointed a committee to approve designs submitted by manufacturers consisting of the following: W. J. Worboys, a member of the COID and a director of Imperial Chemical Industries Ltd. (Chairman); G. Grime, of the Road Research Laboratory; Herbert J. Manzoni, City Engineer and Surveyor, Birmingham; J. M. Richards, an editor of *The Architectural Review* and of the *Journal*; F. R. S. Yorke; Gordon Russell, Director of COID; Alister Maynard, Chief Officer, COID Scottish Committee; M. Hartland Thomas, Chief Industrial Officer, COID; J. M. Benoy, Industrial Officer, COID; George Williams, Industrial Officer, COID (Secretary).

The committee's main object is to improve the day-time appearance of lamp posts, but it hopes at the same time to have a good influence upon the functional aspects. It works, therefore, in conjunction with the Ministry of Transport, the Road Research Laboratory, the Association of Public Lighting Engineers and the BSI. Since its formation, the committee has received 100 new designs from manufacturers, of which it has approved 48 and referred 52 back to the manufacturers with recommendations for improvement. The COID's industrial staff is available to manufacturers for advice before they make submissions to the committee. Most manufacturers take advantage of this and a number have employed consultant designers on the council's recommendation.

## DIARY

*Syon House*—a film in the "Historic Houses of England" series. BBC Television Service. 10 p.m.

SEPTEMBER 26

*Harbour Construction Work at Takoradi, West Africa: Film.* At Caxton Hall, Caxton Street, S.W.1. (Sponsor: Institute of Quantity Surveyors.) 6.30 p.m.

SEPTEMBER 29

*Royal Photographic Society: Annual Exhibition.* At 16, Princes Gate, S.W.7. Monday to Friday, 10 a.m. to 8 p.m., Saturdays, 10 a.m. to 5.30 p.m. Sundays 2.30 to 5.30 p.m. The exhibition will close at 6 p.m. on Tuesdays, so that miniature colour transparencies can be projected, with commentary, at 7 p.m.

UNTIL OCTOBER 12

*Essentials of Good Concreting.* E. E. H. Bate. At Croydon Polytechnic, Selhurst Road, South Norwood, S.E.25. (Sponsor: MOW.) 7.30 p.m.

OCTOBER 13

*Model Engineer Exhibition.* New Royal Horticultural Hall, S.W.1. Weekdays 11 a.m. to 9 p.m.

OCTOBER 20-29

*The Development Plans: Conference.* At the Council Chamber, County Hall, S.E.1. Sessions at 10.30 a.m. and 2.15 p.m. on both days. For particulars apply to TCPA.

OCTOBER 23, 24

*Private Enterprise House Designs: Display.* At the Housing Centre, 13, Suffolk Street, S.W.1. Monday to Friday, 9.30 a.m. to 5.30 p.m. Saturday, until 12 noon.

UNTIL OCTOBER 25

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MBER 25

## HOUSING

at HARLOW NEW TOWN, ESSEX

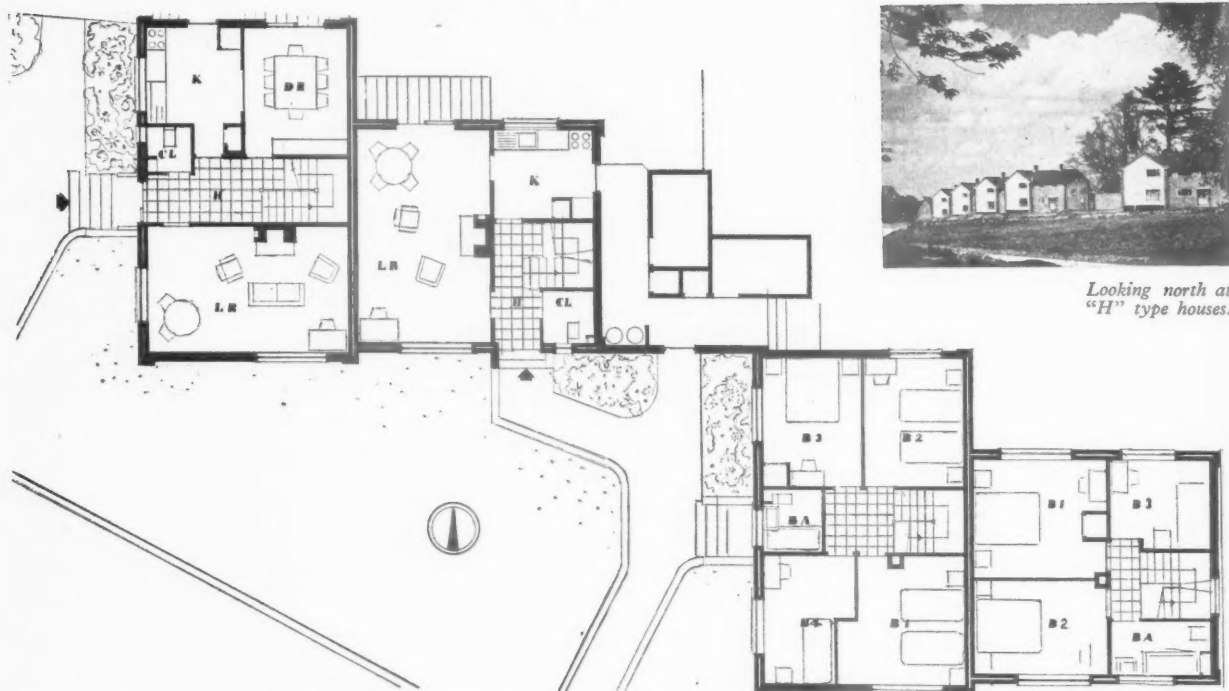
designed by FREDERICK GIBBERD

and FRY, DREW and PARTNERS

Houses of two different types, both in area 3 of the Mark Hall North neighbourhood in Harlow, are illustrated on this page and the two following pages, and are designed by Frederick Gibberd, the Architect-Planner to the Corporation. The "H" type houses, seen below, have either 3 bedrooms or 4 bedrooms, the former have an area of 969 sq. ft. measured inside the external walls and the latter an area of 1,247 sq. ft., both including outbuildings. On pages 378 and 379 are described and illustrated three- and four-bedroom houses in area 2, designed by Fry, Drew and Partners.

*Looking north-east at "H" type houses in area 3.*





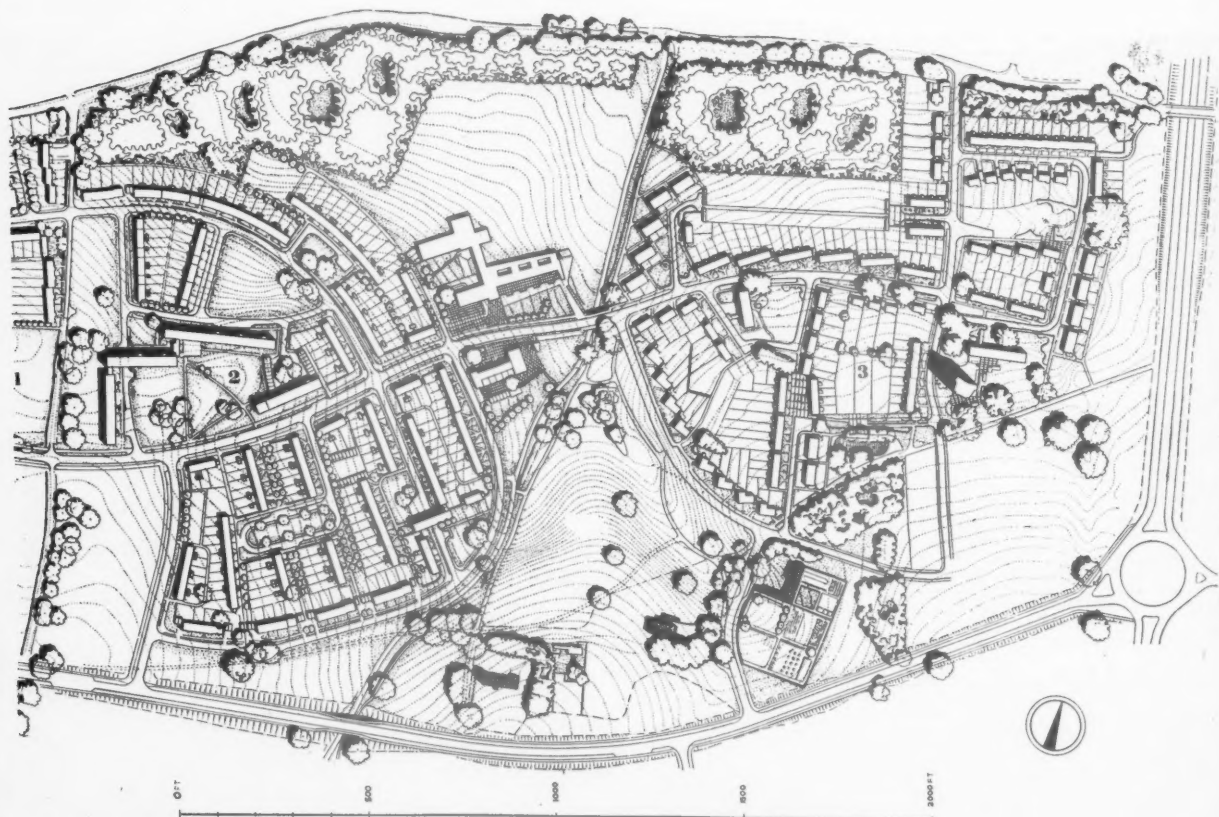
Looking north at "H" type houses.

Ground and first floor plans, "H" type houses [Scale:  $\frac{1}{16}$ " = 1' 0"]

## HOUSING

at HARLOW NEW TOWN, ESSEX  
designed by FREDERICK GIBBERD

CONSTRUCTION.—The "H" type houses are of 11-in. cavity brickwork with the gable walls of 9-in. brick. Ground floors are of solid concrete and first floors of wood joists and boarding. Roofs



Site plan; house types "H" and "E" are to the south-west and the north of figure 3 respectively





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Roofs.





**WORKING DETAIL**

**FURNITURE AND FITTINGS: 27**

RECEPTION DESK: EXHIBITION AT OFFICES IN LONDON, S.W.1

*F. M. Gross. designer*



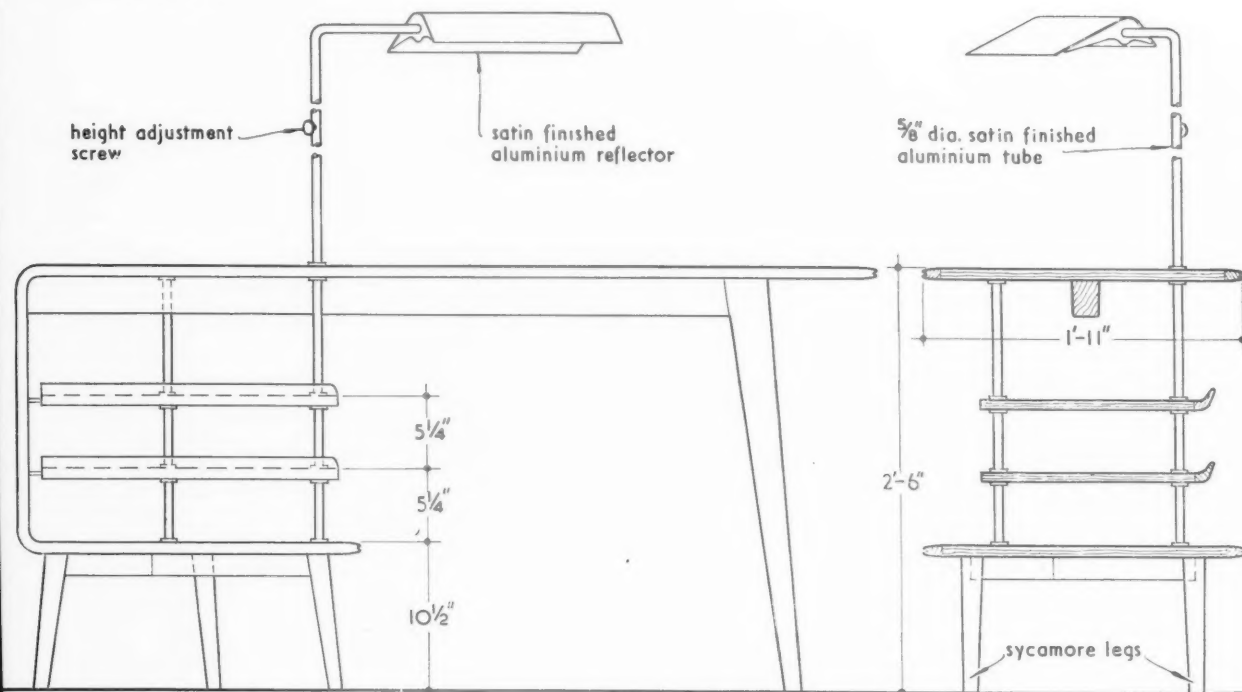
*The reception desk is made in abura and sycamore :  
one of the tubular aluminium shelf supports is  
extended to carry a specially designed desk lamp.*

## WORKING DETAIL

## FURNITURE AND FITTINGS: 27

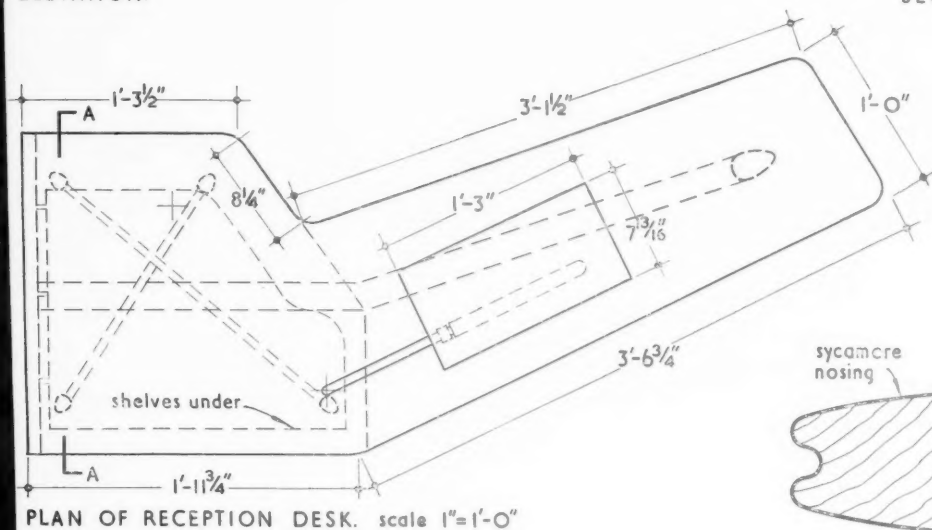
RECEPTION DESK: EXHIBITION AT OFFICES IN LONDON, S.W.1

F. M. Gross designer

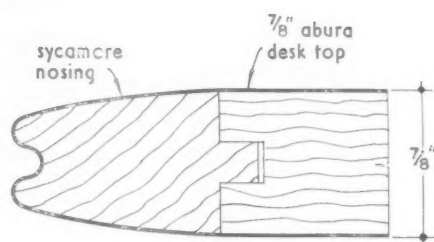


ELEVATION.

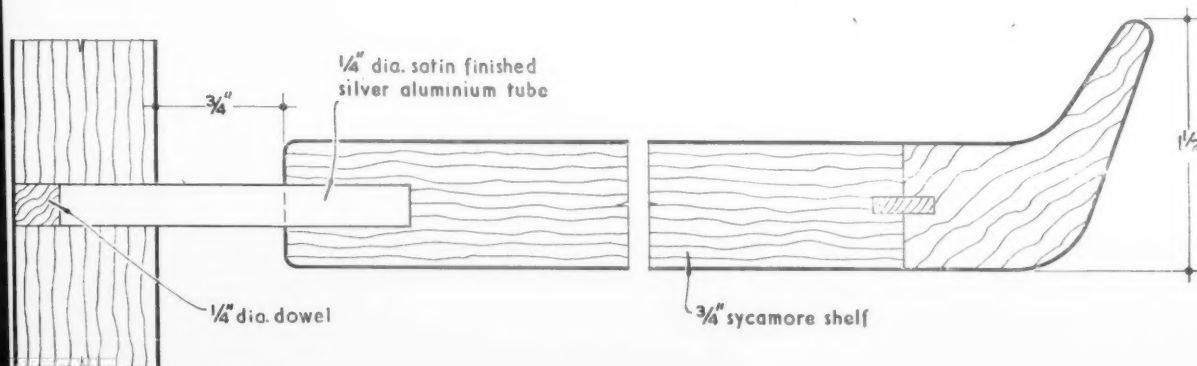
SECTION A-A.



PLAN OF RECEPTION DESK. scale 1"=1'-0"



FULL SIZE DETAIL OF NOSING TO DESK TOP.



FULL SIZE DETAILS OF SHELF FIXING AND LIP.



WORKING DETAIL

DOORS: 11

GLAZED SLIDING DOORS: HOUSES AT WELWYN GARDEN CITY

Richard J. Nichol, architect

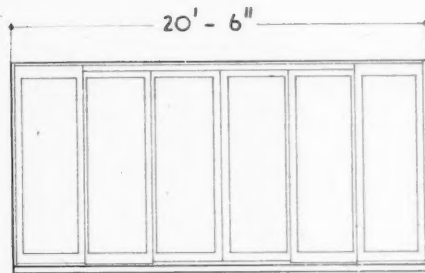


*The sliding doors run on a steel tee sill track and provide a clear opening to the living room of more than 13 ft. wide.*

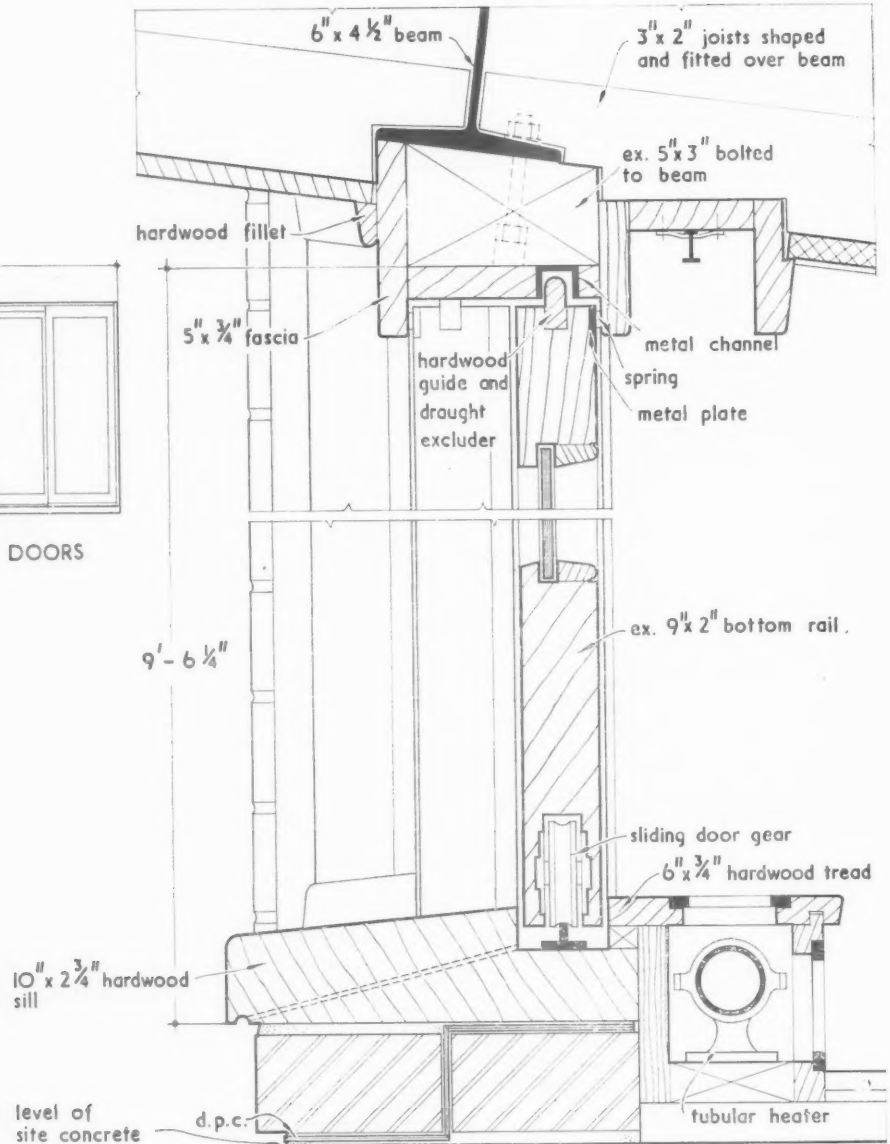
WORKING DETAIL

GLAZED SLIDING DOORS: HOUSES AT WELWYN GARDEN CITY

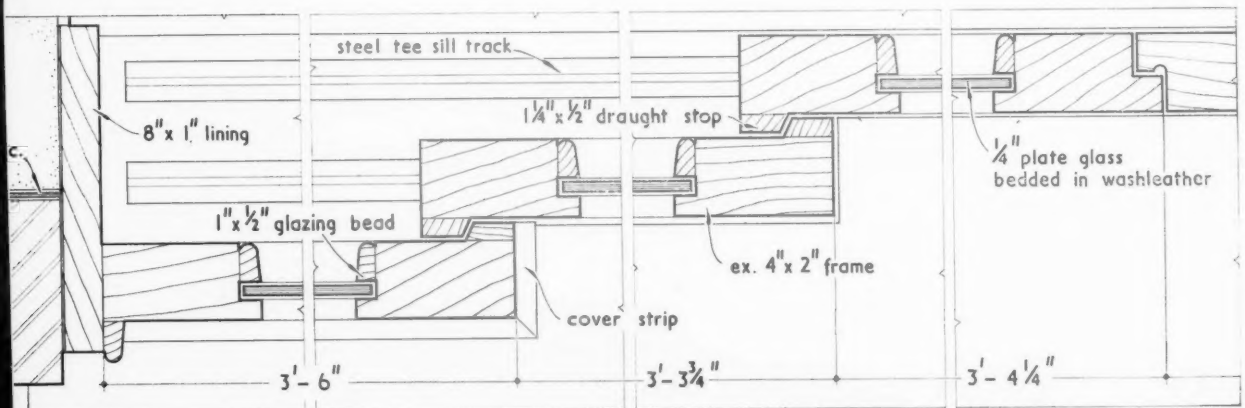
Richard J. Nichol, architect



EXTERNAL ELEVATION OF DOORS  
scale  $\frac{1}{8}$ " = 1' - 0"



VERTICAL SECTION THROUGH SLIDING DOORS. scale  $\frac{1}{4}$  full size



PART PLAN OF SLIDING DOORS. scale  $\frac{1}{4}$  full size



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Looking north-east at  
"E" type houses, area 3.

## HOUSING

at HARLOW NEW TOWN, ESSEX  
designed by FREDERICK GIBBERD

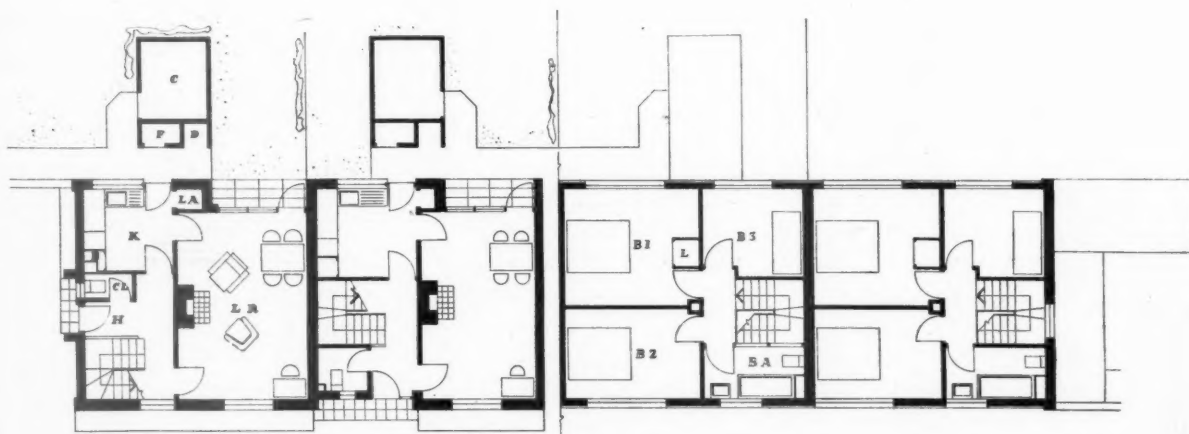
are of light timber construction. Partitions are of 3-in. breeze.

**FINISHES.**—Externally, walls are of Surrey multi-stock facing bricks and gable walls are cream rendered. Roofs are covered with dark-brown pantiles. Windows are standard metal, except for a specially designed french window in wood. Ground floors are covered with plastic tiles, with quarry-tile

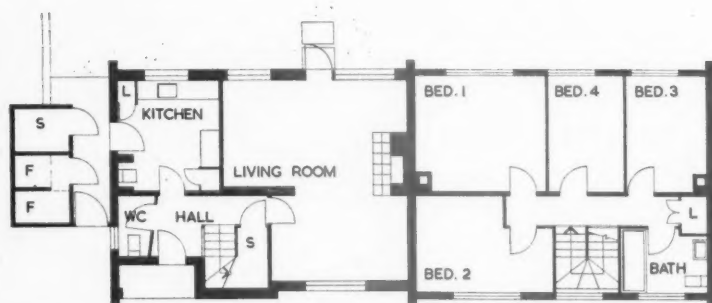
insets in kitchens. Walls are plastered and ceilings are of plaster board with skim coat.

The "E" type houses, which have an area of 938 sq. ft., the construction and finishes are similar, except in the following respects. First floors are faced externally with elm boarding on "rat-trap" bond; roof construction is of 4-in. by 2-in. rafters on purlins and finished with pantiles on battens; ground floors are finished with composition tiles.

**SERVICES.**—Heating and hot water is from a back boiler grate in the living room. Provision is also made for an electric immersion heater in the hot water storage cylinder if required.



Ground and first floor plans, "E" type houses [Scale:  $\frac{1}{8}$ " = 1' 0"]



Ground and first floor plans, 4-bedroom house [Scale:  $\frac{1}{8}$ " = 1' 0"]

**CONSTRUCTION.**—The 4-bedroom terrace houses in housing area 2 have an area of 1,144 sq. ft. Ground floor external walls are of 11-in. cavity brickwork and first floor of 6-in. hollow clay building blocks. Ground floors are concrete slabs and first floors of timber construction. Roofs are timber. Partitions are of 4½-in. brick and clinker blocks.

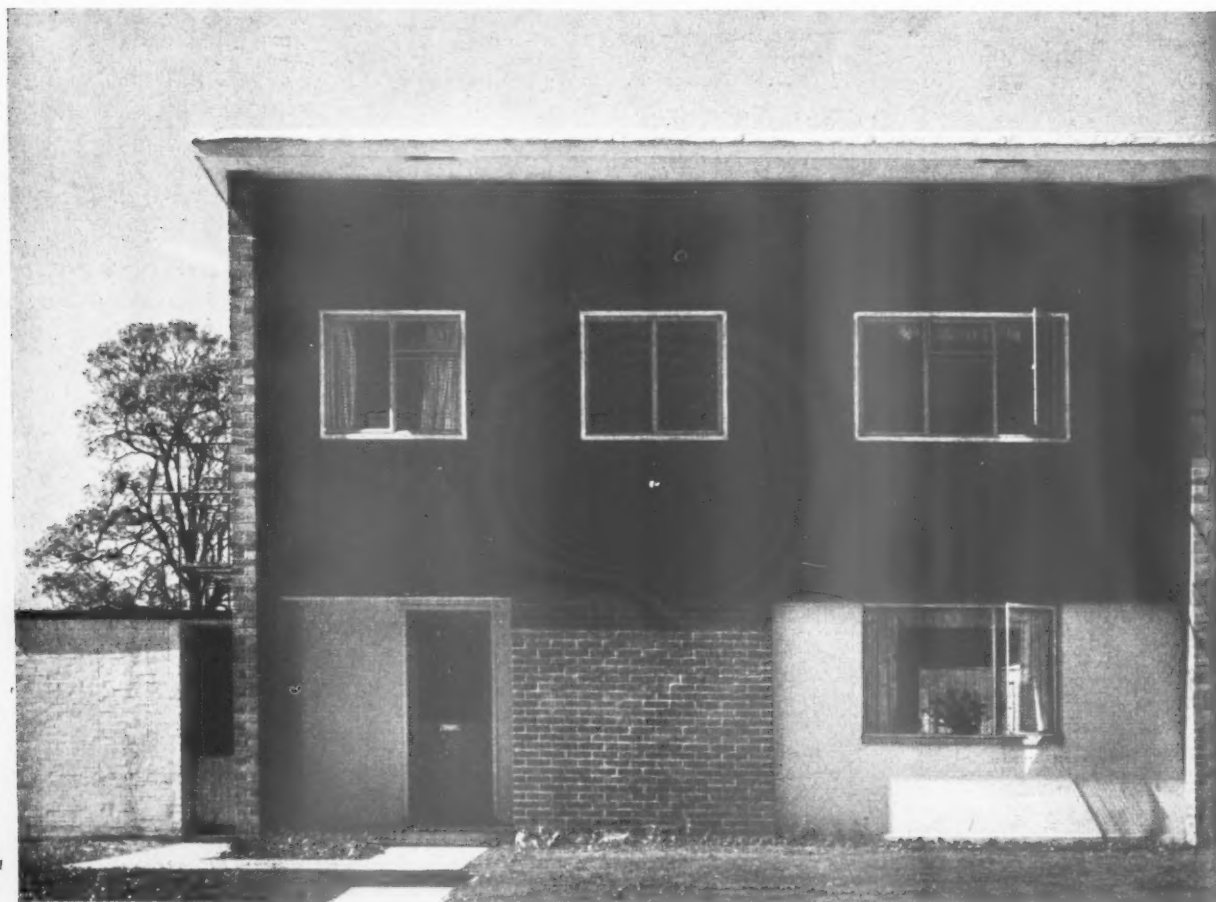
**FINISHES.**—Facing bricks are Leicestershire Ibstock buff-browns. First floor walls are rendered and sprayed externally with self-coloured spatter finish. Roofs are finished with 22-gauge aluminium roofing fixed to battens let into screed, with 2-in. wood-wool insulation. Mineral surfaced built-up

## HOUSING

at HARLOW NEW TOWN, ESSEX  
designed by FRY, DREW AND PARTNERS  
assistant architect, BARBARA AULD

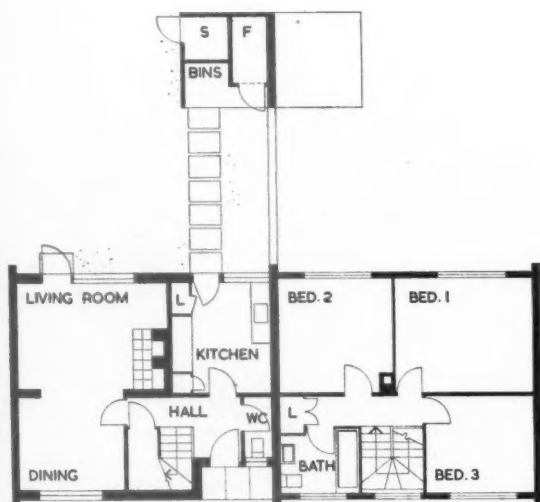


*Below, typical four-bedroom terrace house. Right, built-in fitment in typical kitchen.*





*Above, on the left, three-bedroom houses and on the right, a four-bedroom house, seen from the garden.*



Ground and first floor plans, 3-bedroom house

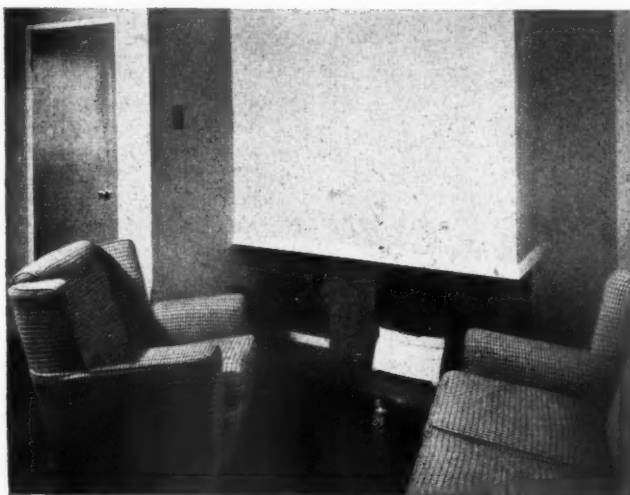
[Scale :  $\frac{1}{8}'' = 1' 0''$ ]

roofing was substituted for aluminium on the second half of the contract. Ground floors are covered with plastic tiles laid in mastic on waterproof screed. Standard metal windows are used, some in precast concrete surrounds. Walls are plastered and distempered.

The three-bedroom terrace houses, which have an

area of 1,009 sq. ft., have similar construction and finishes.

**SERVICES.**—Heating and hot water is provided from smokeless fuel grates with back boilers. There is also provision for immersion heaters, gas water heaters over sinks and gas or electric cookers, as required by the tenants.



*The living room.*

## HOUSE

in FITZROY PARK, LONDON, N.6

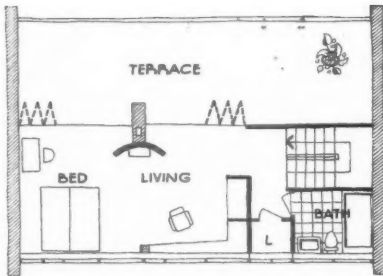
designed by STEPHEN GARDINER

The client of this house in Highgate, who is a surgeon, is likely to require the house to be extended at a future date. This extension is planned to provide a penthouse bed-sitting room, with an open terrace facing west. Provision has been made in the roof slab for the stairs to this upper floor. The area of the dwelling, including outbuildings, is 1,500 sq. ft.

*View looking north-east from the garden.*







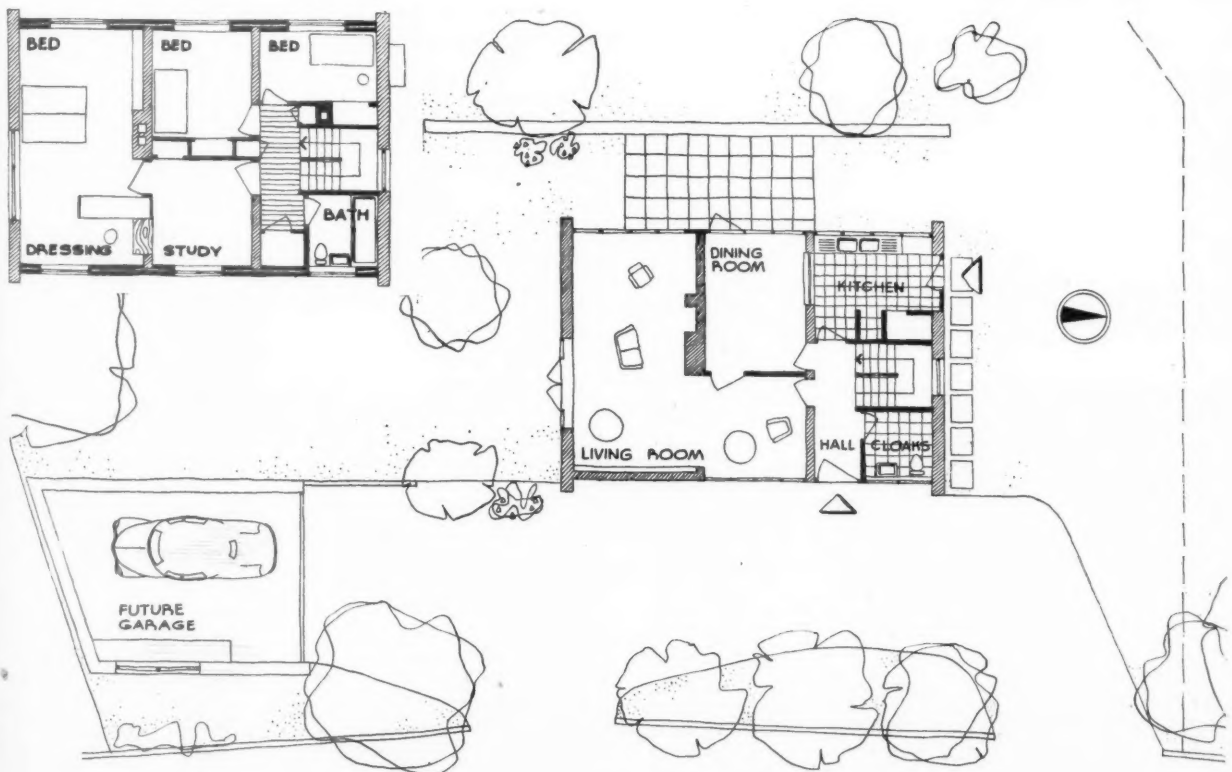
Future penthouse extension

**CONSTRUCTION.**—The house has structural cross-walls, with RC slabs spanning between them. The flank walls are of  $13\frac{1}{2}$ -in. brickwork, internal cross-walls of 9-in. brickwork and panel walls of 11-in. cavity brickwork. Floors are of  $3\frac{1}{2}$ -in. RC slabs with a maximum span of 12 ft. Partitions are of 4½-in. brick or 2½-in. breeze.

**FINISHES.**—Facing bricks are Leicester hand-made brown brindles and the flank walls are finished with white Tyrolean spatterdash on a ½-in. cement coat. The roof is finished with three-ply felt on 3-in. screed and 2-in. wood-wool slabs under the RC slab as permanent shuttering. The temporary covering over the hole left for the future staircase extension consists of 5-in. by 1½-in. joists, diagonal



Above, the east and north facades, with the main entrance on the left. Right, the dining room, with hatch to the kitchen on the right.



Ground and first floor plans [Scale: ¼" = 1' 0"]



*Above, the north and west. On the left the service entrance, on the right a french window leading on to the garden.*

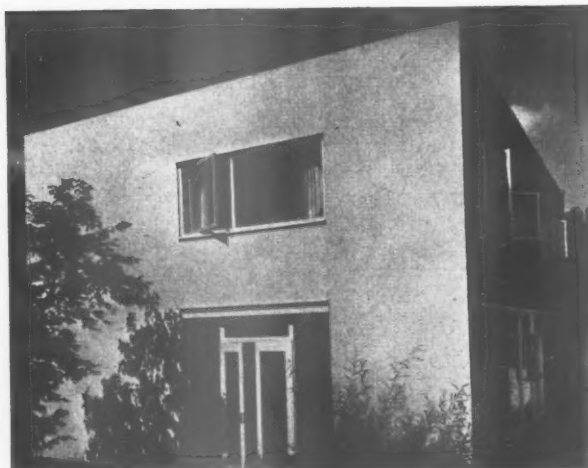
## HOUSE

in FITZROY PARK, LONDON, N.6  
designed by STEPHEN GARDINER

*Below, the living room. Below right, the south facade and on the right the entrance front facing Fitzroy Park.*

boarding and lead covering. Windows are mostly purpose-made in softwood frames. Floors are covered with missanda or sapele wood blocks throughout. Walls and ceilings are covered with  $\frac{3}{4}$ -in. plaster.

General contractors, Leslie Bilsby Ltd.; sub-contractors page 390.



## TECHNICAL SECTION

The report *Economy of Building Materials*, published last month by HMSO (2s.), was prepared by the heads of the works directorates of the service departments and the MOW. It was commented on, somewhat critically, in the JOURNAL for August 7 (p. 155); in particular, attention was drawn to the fact that some of the recommendations in the section on maintenance conflict with recommendations in the section on building.

However, there was much in the report of interest to architects and, in the article which commences below, the JOURNAL's Specialist Editor No. 11 (Materials) comments in detail on some of the specific recommendations contained in it.

Unfortunately, in many districts, architects are unable to act on the recommendations of the report, since they are bound to observe the local byelaws. It is, therefore, of the utmost urgency that the process of revising building byelaws throughout the country be greatly speeded up. Meanwhile, waivers regarding any of the recommendations of the report (and, for that matter, recommendations of other official reports, such as the one on Steel Economy commented on by Specialist Editor No. 13 on page 365 of this issue) should be granted particularly promptly by the authorities concerned and the procedure for applications made as simple as the ingenuity of our civil service can make it.

This week's  
special article

### 11 MATERIALS : GENERAL economy in use of materials

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.

*In his review of the recently published government report on building materials' economy, Specialist Editor No. 11 welcomes recommendations concerning lower ceiling heights, short bored pile foundations and the use of prestressed concrete, but warns that recommendations concerning reducing window areas, the avoidance of membrane construction for ground floor slabs and the elimination of certain finishes should be applied with great caution.*

#### FRAME STRUCTURES

From some rather indefinite statements in the report it appears that a wider use of skeleton structures is advocated—chiefly on the grounds of greater flexibility, but partly because the use of load bearing walls and piers involves loss of floor space and makes virtual impossible standardization floor by floor, owing to variations in wall thickness. This would indicate that the authors of the report have accepted the use of the

module. Although the use of skeleton structures must mean using steel, it is pointed out that by using reinforced concrete or prestressed concrete steel requirements can be minimized.

#### APPEARANCE

It is a relief to know that "Government departments have undertaken to consult local planning authorities to ensure that Crown developments are as far as possible in harmony with the planning of

the neighbourhood." It is to be hoped that this will work out well in practice as there is plenty of room for improvement on past procedure in some districts.

#### CEILING HEIGHTS

It is recommended that ceiling heights for housing should be 7 ft. 6 in., increased to 8 ft. for large or dual purpose rooms. In other classes of building, however, heights should be related to floor area and "to function rather than proportion." One can only regret the apparent necessity of ignoring "proportion," but this official statement on the height of domestic rooms is important and should strengthen earlier statements on this subject from other sources. It is to be hoped that local authorities will be prepared to accept this recommendation and pass designs in which it is incorporated.

#### FOUNDATIONS

A suggestion that reinforced concrete should be replaced by mass concrete or brickwork is qualified by a statement that this may only be reasonable in basements of up to 10-12 ft. depth. Here there seems to be a certain amount of indecision as to the relative importance of saving steel, saving other materials and saving manpower. Earlier in the report it is stated that the order of priority of materials is steel, cement, bricks, softwood. If all these are important, is the extra labour involved in constructing, say, brick retaining walls worth while when to save a small amount of steel extra brickwork must be used?

The use of short bored piles for the foundations of small houses is suggested, wherever soil conditions require deep foundations. This is in line with recent suggestions from BRS, but it would be unfortunate if this reference to houses were taken to imply that short bored piles are unsuitable for other types of work. They have been used with success on schools and they should prove valuable for many other kinds of moderate sized buildings.

#### FLOORS AND BEAMS

Encouragement is given to the use of prestressed concrete for floor slabs with spans between 15 and 35 ft. The elimination of deep beams can reduce overall height where headroom is critical. There is also a suggestion in the report that, by using prestressed concrete for floors, it is possible to effect savings by eliminating internal columns.

#### GROUND FLOOR SLABS

A suggestion that membrane construction is often used unnecessarily and should be confined to wet sites needs careful interpretation; a decision on this point must depend upon the type of floor finish which is to be used. However, the recommendation that for housing and similar work ground floor con-

crete should be only 4 in. thick is to be welcomed. Four inches of good concrete should be ample and the 6 in. still so often used seems entirely unnecessary.

#### WINDOWS

It is suggested that large areas of window involve increased use of steel and loss of insulation and that they should be avoided. An enthusiastic follower of this recommendation of the report could, with the best of intentions, play havoc with working conditions. Surely a drastic generalization of this kind should have been qualified by some remarks about lighting standards?

A suggestion that timber for windows should be covered by a bulk allocation, as is steel for steel windows, is most important. If steel economy is a serious priority, with timber much lower on the list, then some encouragement to use timber would be sensible. At present, there may easily be a tendency for architects to use steel windows so that they can keep the 1-6 standards of timber allowed per house for other purposes. One wonders whether, and when, any official action on this point will follow the recommendations in the report. Incidentally it is rather surprising to see that "on suitable types of building more use should be made of timber joists in lieu of concrete" for flat roofs.

#### FINISHES

The future outlook will be dreary indeed if the suggestions to eliminate plaster, to replace terrazzo with grano, and to find substitutes for wood flooring are all followed. The Committee seems rather half-hearted about this and admits that some loss of aesthetic quality, amenity and hygiene would result. This is a question of cost rather than one of saving scarce materials.

#### FITTINGS

"The Committee feel there is scope in certain housing for a less extravagant provision of fittings. It should, however, be understood that certain accommodation for service personnel must have certain provisions due to mobility" The real meaning of this paragraph seems to be: "Top secret"!

#### SERVICES AND DRAINAGE

An interesting point is raised about water storage. Some local authorities do not insist on storage being provided; advantage of this should be taken wherever possible. It would be useful, however, if other districts could review their requirements in the light of modern developments.

On the prefabrication of services the Committee suggests that economy of materials will usually result, though not necessarily financial economy. Proper prefabrication involves a high degree of skill and considerable time has to be

spent at the design stage. If the advantages of prefabrication are to be obtained this extra expenditure of design time should be recognized. This point is particularly applicable to general housing work. If a prefabricated system of plumbing were cheaper, who would have to design it? It is clearly unfair to expect each of the many firms tendering to do so, but it is also clear that, on the present scale of housing fees, the architect may not be able to afford to do so either. The old problem, that the more work an architect does to produce a cheaper job for his client the less he gets paid in fees, seems to be cropping up in a new form. It raises the whole issue as to whether, under current conditions, the present method of assessing fees is, in fact, the best one for producing first class work.

## QUESTIONS & ANSWERS

*Questions to the Technical Editor are answered confidentially and free of charge.*

#### 3064 PAYMENT FOR SEWERS

**Q** An estate is about to be developed on the outskirts of a borough. Surrounding roads have sewers but, except on one side, these cannot be reached by natural gravitation. On the remaining side, access can be gained to the main outfall sewer of the town, across some four hundred yards of land owned either by the developer or by the local council. What is the legal position concerning payment for this new sewer, and to what extent can my client, the developer, compel the council to provide drainage facilities to the plots which he proposes to sell?

**A** If the local authority require a drain to be connected to a sewer which is more than 100 ft. from the site of a building, they must bear so much of the expense of constructing, maintaining and repairing the drain as is due to the fact that the distance of the sewer exceeds 100 ft. In the case in question there would have to be an agreement in respect of the drain crossing the land owned by the council.

The matter is governed by section 37 of the Public Health Act, 1936, which does not appear to give any power to an owner of land to compel a local authority to provide drainage facilities from his land. The Act protects the owner where the sewer is more than 100 ft. distant, and the local authority may agree to cesspool drainage in such cases if they are unwilling to bear the expense over 100 ft.

If satisfactory drainage can be obtained in any particular case by cesspool drainage the local authority can agree to such proposals, but unless the plans of a new building show satisfactory means of drainage the local authority must reject them.

The local planning authority cannot make a condition of consent under the 1947 Planning Act any matter connected with drainage, and if they did an appeal should be lodged with the Minister under section 16 of the 1947 Act.



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There are separate chapters on the selection of appliances, water-systems and chimney construction.

\*Date of publication of both books will be announced.

Advance copies can be reserved on request.

### 2 Technical Information about appliances

Seldom can a collection have contained so much. Baths, boilers, cookers, grates, fires—specifications, dimensions, performance, finish—all the information is here, and astonishingly easy to get at.

This new edition\* of the Allied Ironfounders Information Sheets has been extensively revised and is now issued with a simplified index system and in a special binding, as a companion volume to the housing book.

### 3 New enlarged London HQ and Showrooms

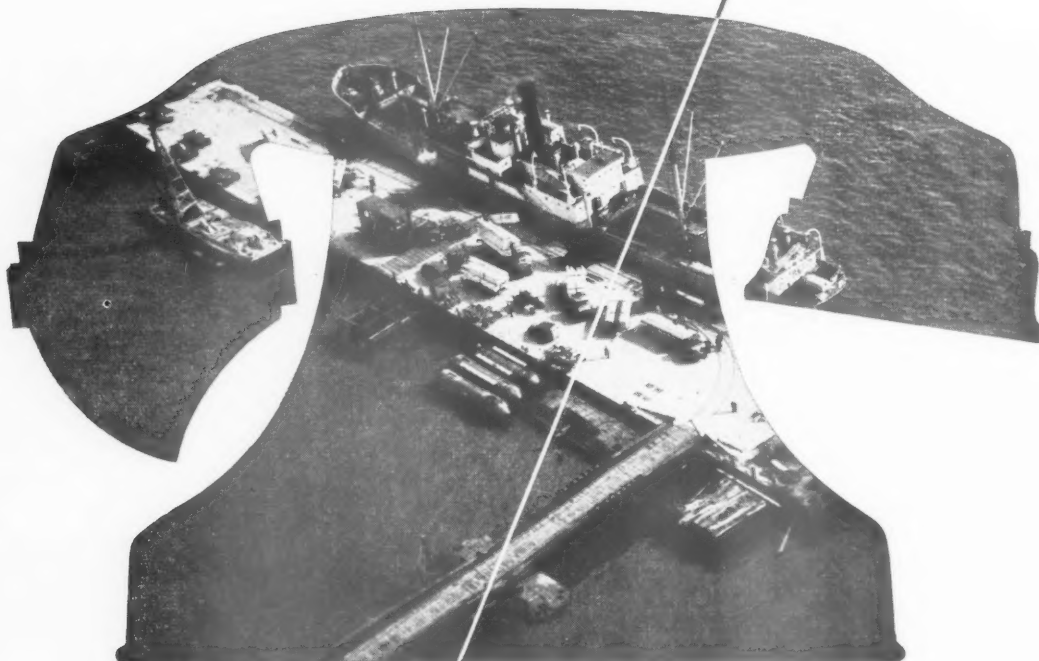
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View of Mulberry Pier, Frog Island, Rainham, Essex.

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## 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. Headings below.*

### 10.96 design: building types SCHOOL CHALKBOARDS

*The Selection of Suitable Chalkboard Colours.* R. G. Hopkinson. (RIBA Journal, Aug., 1952.)

Results of an interesting investigation into the colour of chalkboards.

Various views have been expressed in recent years on this subject and numerous "non-black" boards have been installed. It is useful to have this paper by a member of the BRS staff giving the results of a careful study of the subject. Briefly, the results of the investigation appear to be that white chalk should still be used and that black boards are not the best, but that care in the choice of colour is necessary. Some rules for choice of colour are given. The colour should not be more than half its maximum density; it is better, in fact, if it is considerably nearer

to neutral grey. Errors in judgment are more likely to occur when using red, orange, yellow and greenish yellow than when using colours in the green and blue ranges.

### 11.28 materials: general SLATES

*The Durability of Roofing Slates.* BRS Digest No. 45. (HMSO, Aug., 1952. 3d.)

Useful guide to quality of slates and methods of testing but is little more than an explanation of the current BS on the subject.

### 13.94 materials: timber DRY ROT

*Dry Rot in Wood.* Forest Products Research Bulletin No. 1. 5th Edition. (HMSO, 1952. 2s.)

Fifth and revised edition of the well-known and authoritative booklet on recognition, causes and treatment of dry rot.

Dry rot in woodwork in buildings has been very much more prevalent during the past decade than at any time before. It is a serious and expensive menace which does not always receive the care and expert treatment which is essential if an outbreak is to be permanently eradicated. For many years this Bulletin has been the standard work on the subject and this further revision is to be welcomed. Although the section on sterilisation has been revised and contains a reference to the method of treating walls with zinc oxychloride cement, the reference is so brief and indefinite that it may be missed. In fact, there have been recent papers on the subject by members of BRS and FPRL which, although still cautious, are much more informative. It is, therefore, unfortunate that this present publication seems to

have gone to press at a time when a new and apparently rather useful additional method of treatment was in its trial stages. If the present printing is likely to last for some considerable time it might be worth considering whether the latest official views on the zinc oxychloride treatment could be added as an addendum slip.

### 13.95 materials: timber SEASONING

*Timber Drying.* R. G. Bateson. (Crosby Lockwood. 3rd Edition, revised. 1952. 15s.)

Third and revised edition of an authoritative work on a rather specialist subject, but containing a good deal of general interest and useful for an understanding not only of methods of seasoning but of timber defects and of the behaviour of seasoned wood.

### 13.96 materials: timber SCREWS

*Wood Screws.* BS 1210:1952. (British Standards Institution. 3s.)

A revision of earlier Standard, this contains important changes. It is a much more important document than might be thought and should be in all architects' offices for reference.

Although at first it may appear that this Standard deals with a rather unimportant product, the document is, in fact, of considerable interest and architects would be well advised to have a copy available for office reference. It covers, in addition to mild steel and brass screws, stainless steel, aluminium alloy, gun-metal, and nickel silver, and a number of different heads, such as slotted countersunk, slotted round headed and slotted raised countersunk, are illustrated. An appendix has been added giving finishes that can be applied.

In order to economize on available materials and to reduce stock holding, there are two ranges, one of "preferred" sizes, which should be easily obtainable from stock, and the other of "supplementary" sizes, which should be avoided so far as possible.

The correct choice of size and type of screw is an important matter of detail which is all too often left to the man on the job. He may well decide the matter on convenience rather than on suitability if he is not carefully directed.

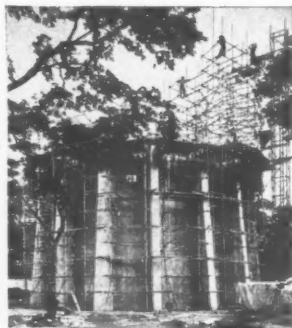
### 13.97 materials: timber GRADING

*The Grading of Home-grown Softwoods.* J. Bryan. (Wood. Aug., 1952.)

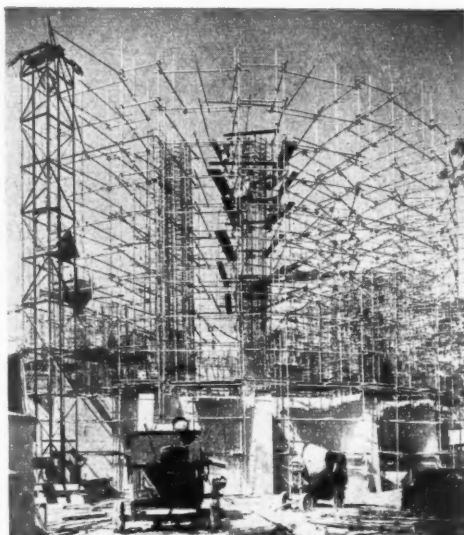
Proposed grading for home-grown timber. Useful guide to quality, even while grading is not in general use.

The grading of timber is such an obvious step to a better and more economical use of a scarce material that it is disappointing that it has not yet become general practice. This article explains a simple system of grading which it is proposed might be used for home-grown timber coming from the Forestry

## WATER TOWER IN NORTHERN RHODESIA



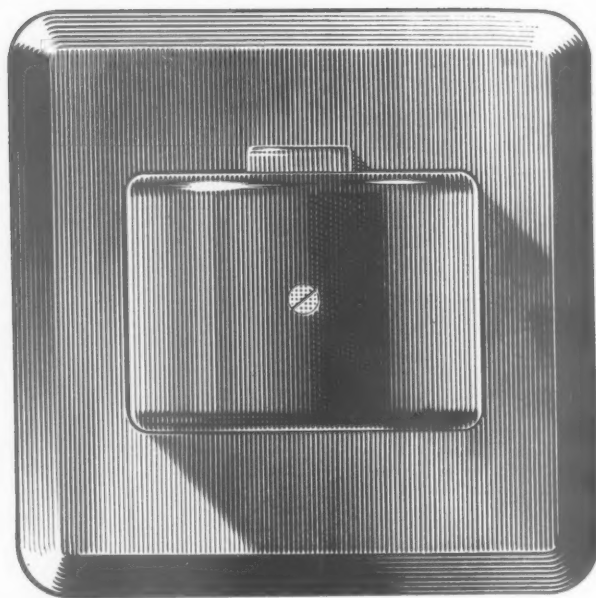
*At the flourishing town of Lusaka, in Northern Rhodesia, a water tower for the town's main supply is being constructed of reinforced concrete. The photograph above*



*was taken two months after that on the right, and shows the tower at 64 ft. above ground level. Each lift of concrete is 4 ft. in height. There is an inner circular ring of 16 heavy buttresses. When completed the tower will have a diameter of 74 ft. and a height of 102 ft. 6 in. The total capacity will be 3,000,000 galls. As the tower will become a prominent feature in the centre of Lusaka, care is being taken to ensure that the exposed concrete receives a high standard of finish. Consulting engineers: Binney, Deacon & Gousley; contractors: John Laing & Son, Ltd.*

1 Sociology. 2 Planning: General. 3 Planning: Regional and National. 4 Planning: Urban and Rural. 5 Planning: Public Utilities. 6 Planning: Social and Recreational. 7 Practice. 8 Surveying. Specification. 9 Design: General. 10 Design: Building Types. 11 Materials: General. 12 Materials: Metal. 13 Materials: Timber. 14 Materials: Concrete. 15 Materials: Applied Finishes. Treatments. 16 Materials: Miscellaneous. 17 Construction: General. 18 Construction: Theory. 19 Construction: Details. 20 Construction: Complete Structures. 21 Construction: Miscellaneous. 22 Sound Insulation-Acoustics. 23 Heating, Ventilation. 24 Lighting. 25 Water Supply, Sanitation. 26 Services Equipment: Miscellaneous. 27 Furniture, Fittings, Miscellaneous.

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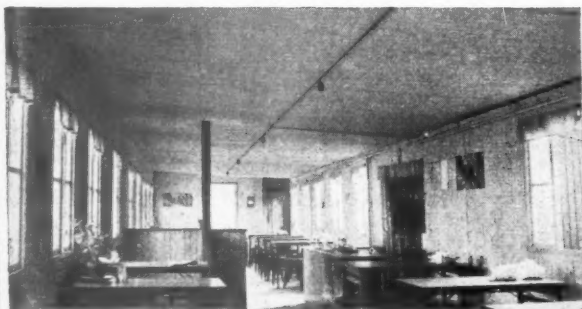
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## A SWEDISH CONTRACTOR'S "HUT"



In the JOURNAL for September 11 (page 303) we illustrated an unusually elaborate, and well-designed, contractor's "hut" on a building site, designed by Dr. Ronald Bradbury, Liverpool's city architect and director of housing, for the site staff working on a large housing scheme. On the left is shown the interior and ex-

terior of a Swedish site "hut." It is a two-storey building, constructed of prefabricated timber units, specially designed for rapid erection and dismantling. On the ground floor is an office for the general foreman, an office for two clerks, changing rooms for each trade (bricklayers, carpenters and joiners) and for labourers, a common drying room for wet clothes, and a wash room. The whole of the first floor consists of a mess room, well lit from both sides, as can be seen in the photograph. Altogether the building, which is electrically heated by warm air, caters for 60 men, including employees of sub-contractors. This standard of accommodation is somewhat higher than the present average in Sweden, but in January last a new agreement was reached between employers and operatives concerning standards of accommodation in site huts. This agreement, which will be put into operation gradually, provides for a minimum floor area per man, the separation of the mess room from the changing room and the provision of suitable storage space for the men's street clothes, separate drying rooms and running water within the hut. The agreement will eventually bring all Swedish contractors' huts up to the standard of the one illustrated here.

Commission. As the amount of sawn softwood from this source will increase rapidly in the future any such scheme is important. Quite apart from the general introduction of grading, a knowledge of simple grading rules and the results of such grading upon strength of timber should enable better use to be made on the site of ungraded timber and could form a useful basis for ordinary specifications.

#### 14.52 materials : concrete CONCRETE TESTING

Methods of Testing Concrete. BS 1881. (British Standards Institution. 1952. 10s.)

BS 1881 is a new standard which will be of interest to architects and engineers who are particularly concerned with work involving concrete.

A complete range of standard tests is specified suitable for the control of concrete mixing, both in the field and in the laboratory, where the largest nominal aggregate size is 1½ in. The complete procedure is given for sampling, curing and storage, and the preparation of test specimens, in the form both of cubes and beams. A method of analysing the constituents of freshly mixed concrete is given and also an electro-dynamic method for the determination of the elasticity of hardened concrete.

Architects concerned only with small building work will find that the tests specified in BS C of P 114 are adequate for their requirements.

#### 14.53 materials : concrete GUNITE SLABS AND PARTITIONS

Fire Tests of Gunitite Slabs and Partitions. N. D. Mitchell. (Building Materials and Structures Report 131. US Dept. of Commerce. 1952. 15 cents.)

Tests on fire resistance showed considerable improvement when cement and sand mixes were replaced by cement, sand and sawdust.

With considerable interest being shown in fire resistance it is useful to have these test results which show that the fire resistance of a "Gunitite" applied mix is improved when some of the sand is replaced by sawdust. This somewhat surprising result is explained by the fact that the inclusion of sawdust increases the porosity of the concrete, allowing the occluded water to escape as vapour. The sawdust also slows down the rise of temperature. Improvements were considerable for mixes in which 30 to 50 per cent. of the sand was replaced by sawdust. The results are in line with those of earlier tests on fire resistance of gypsum concrete in which it had been found that the addition of wood chips to the aggregate increased fire resistance.

#### 16.93 materials : miscellaneous ASPHALT

Mastic Asphalt Roofing. BS C of P 144.201 (1952). (British Standards Institution. 5s. 6d.)

General information on material and methods. Twenty-one excellent clear diagrams of detail treatment for eaves, upstands, etc. These should be regularly used as guides to drawing office practice.

#### 17.89 construction : general EXPANSION JOINTS

Corrugated Copper Jointing Strip. BS 1878: 1952. (British Standards Institution. 2s.)

Materials and dimensions for copper expansion jointing strips. Useful, but 2s. for three pages seems expensive.

#### 18.107 construction : theory LOADING

Loading. CP3, Chapter V (1952). (British Standards Institution. 1952. 4s.)

Revised edition of Chapter V of Code of Functional Requirements of Buildings (1944) shows important changes in the loading recommendations.

In the case of dead loads (provision for partitions not shown on the plans) some provision must now be made in design loads where even the lightest of partitions may be used in the future. This agrees with the proposed LCC byelaws, 1951.

In the case of live loads other than wind loads revisions include classification of floors for loading purposes, loading of corridors, stairs and landings, permissible reduction of loads for columns in multi-storey buildings and imposed roof loads. These revisions agree fairly closely with the proposed LCC byelaws, but in the Code an appendix is given which explains the various loading classifications and allows the user some scope in their application to a particular problem.

The cases of wind loading have been revised extensively. Illustrations include a set of diagrams showing wind tunnel tests; these are in the form of graphs which indicate the distribution of wind pressure over the walls and roofs of buildings of typical cross section.



# This Specialized Age

## The Ophthalmologist

*One of the most complicated and sensitive organs of the human body is the eye and the ophthalmologist, who specialises in the science of its anatomy and physiology, devotes his abilities, gained after years of application and study, to combating affliction and discovering cures for any diseases which may attack human sight.*



This is the age of specialization. With the advance of modern knowledge, no one man is able to excel in everything and in the field of human endeavour the final product is inevitably the result of co-operation by specialists. So it is with architectural planning. Working under the captaincy of the architect, the team of specialists all play their part and take responsibility for different sections of the project. Over the years, Lockhart Equipment Ltd., have gained a reputation as specialists in the planning and equipping of Industrial Canteens, Hotels and Restaurants. Experienced technicians are at all times available to provide specialist service to the architects, which includes the preparation of layout plans and the submission of appropriate quotations, whether it be for a completely new installation or the reorganisation of existing facilities. Lockhart Equipment Ltd., offer a fully comprehensive service whereby every item of catering equipment from the largest refrigerator down to the smallest piece of crockery, cutlery, furniture, linen, etc., is planned for and supplied so that the whole unit can be handed over complete and ready for operation.

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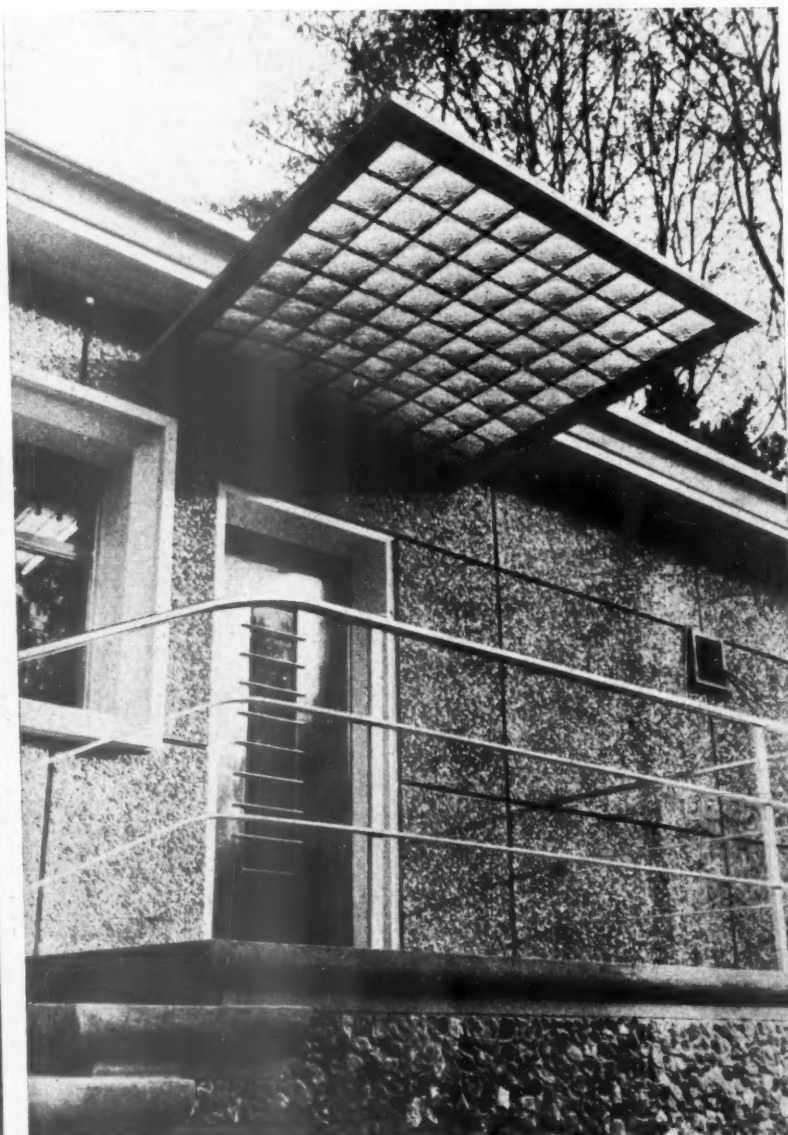
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## POST-TENSIONING GLASS-CONCRETE PANELS

The use of post-tensioned wires, housed in rebates in the lenses, can reduce the width of the ribs in glass/concrete construction, and make it possible to produce panels with approximately a 95% glass area. Developments of this patented process have been taking place in France, where glass/concrete construction originated (the photograph below is of a factory-made post-tensioned panel over a porch at St. Germain en Laye, France), and a British firm has now constructed several large experimental panels. For large spans it is necessary to utilise the great compressive strength of the glass; hence, the linear coefficient of expansion for the concrete must equal that of the glass. The old method of overcoming the difference in coefficients by coating the edges of the lenses with a mastic compound restricts the use of glass/concrete to small spans.



18.108 construction : theory  
**STRUCTURAL STEELWORK DESIGN**

*Steelwork in Building.* W. Basil Scott. (E. & F. N. Spon Ltd. 1952. 25s.)

Commentary on BS 449, *The Use of Struc-*

*tural Steel in Building.* 203 pp., 40 diagrams and tables, in addition to those reprinted from the BS.

The various structural Codes have been drafted by committees composed of experts both in design and construction. The recom-

mendations therein provide the basis for safe and economic design but require interpretation for the many particular problems which arise in practice. In *Steelwork in Building* a member of the drafting committee for BS 449, W. Basil Scott, gives a complete review of the Code with a commentary on each clause, thereby revealing the object behind the framing of the clauses.

18.109 construction : theory  
**FIRE REGULATIONS**

*Means of Escape in Case of Fire.* Horace J. Brend. (Pitman. 1952. 15s.)

Based chiefly on London regulations, this is a valuable guide to regulations and their implications. Clearly set out for easy reference, with useful diagrams.

Tiresome though fire escape regulations may sometimes appear to be they cover an essential building requirement and the importance of conforming to them is obvious. While it is unfortunate that there is not a clear national code on this subject, the LCC regulations seem to be about as safe as any and are frequently used as a basis for regulations elsewhere. The author is an officer of the LCC and, although in this book giving only his personal opinion, is clearly in a position to judge what would be officially considered good practice.

The first sixty pages summarize existing regulations, including both those which apply in London and those which apply to the country as a whole. The second and larger part of the book applies clearly the principles of "means-of-escape" to planning. Examples are given, and are well illustrated by diagrams. These examples are grouped according to the type of building, e.g., "single staircase buildings," "buildings with more than one staircase," "places of entertainment," etc. This second section of the book is as fine a simple explanation of fire-escape requirements as one could hope to find.

*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*

## ENQUIRY FORM

*I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers' names please).*

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*Please ask manufacturers to send further particulars to :—*

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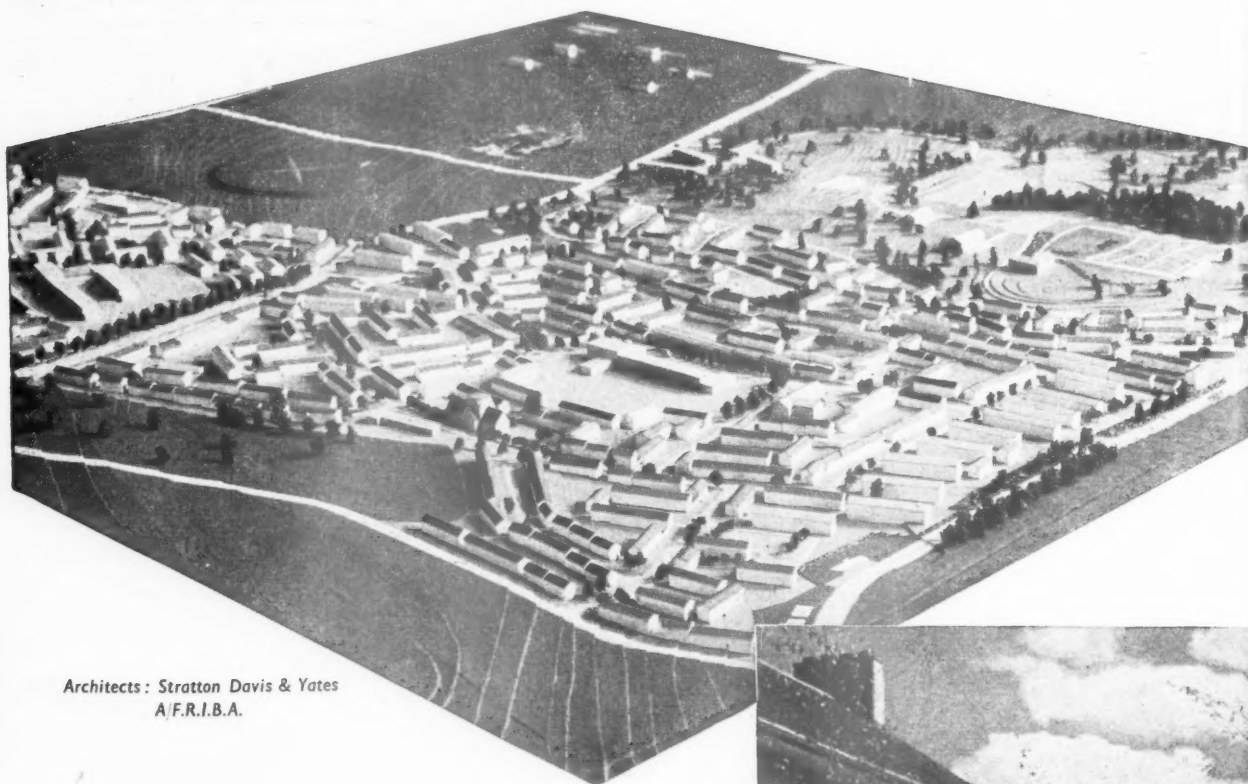
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Architects: Stratton Davis & Yates  
A/F.R.I.B.A.

## 56,000 SQUARE YARDS OF BISON FLOORING AND ROOFING WERE USED

Illustrated above is a model of the INCH HOUSING SCHEME, Nether Liberton, Edinburgh, in which 56,000 sq. yds. of Bison Floors and roofs were laid. On the right is a photograph of one of the Terraces of 4-5 apartment cottages.

Bison floors and roofs are playing a major part in the nation's building programme—they were specified for over 550 new schools completed since the war and for 175 now under construction. To-day's problem of quick and economical building calls for modern methods. BISON speeds construction and cuts costs. That is why BISON precast floors and roofs in normal R.C., or Pre-stressed, are specified for jobs of importance everywhere. No job is too big for BISON—the production capacity of thousands of square yards a week can keep pace with the largest demand. Vital time is saved—deliveries from five strategically placed factories are prompt.

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## THE INDUSTRY

From the Industry this week, Brian Grant reports on a fused adaptor, designed with rectangular pins to BS 1365; a new, inexpensive electric cooker; two useful booklets and the introduction of a new colour for acid-resisting tiles.

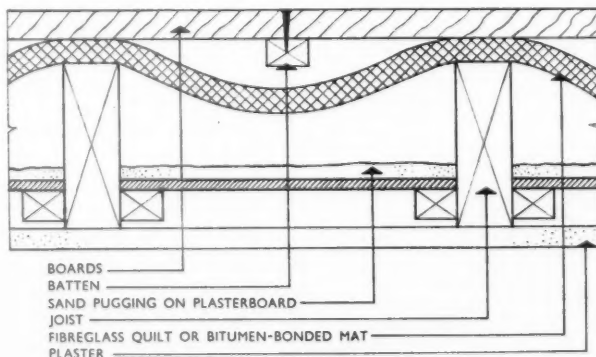
## PLUG ADAPTORS

Almost every electrical retailer has a large stock of adaptors whereby two or more appliances may be fed from the same socket. This suggests that most householders have more appliances than they have sockets. It is reasonable to assume that there are plenty of households in which the living room has an electric fire, a floor standard and a TV set or radio, all fed from the same 15-amp. socket. This is a pernicious habit, since all the appliances will be fed through a single fuse, and the smaller items may develop faults which do not pass enough current to blow the fuse. However, with the new 13-amp. sockets—the ones with the rectangular pins to BS 1365—all the plugs are fused, so that the socket can be loaded up to its maximum rating, while each appliance has an appropriately sized fuse.

The photograph, top right, shows the new Type 13 "Clix" adaptor made by Ediswan. This contains a fuse, and the sockets for the normal plug are designed to ensure that it is earthed. A second appliance can be fed from the adaptor, and a third if two adaptors are used plus a normal plug. List prices are 7s. in brown; 8s. in white. (*The Edison Swan Electric Co. Ltd., 155, Charing Cross Road, London, W.C.2.*)

## A NEW LOW COST COOKER

The GEC has just introduced a new cooker suitable for a family of five. It has a large oven, with thermostatic control, and the hot equipment consists of one 8-in. boiling ring and a grill-boiler 8 in. by 10½ in. The cooker is produced in two models, DC 452 (£24 10s.) on legs and DC 453 (£25 10s.) on a plinth. Standard finish is grey mottle, but DC 453 is also produced in green and cream at an extra charge. Overall dimensions, including splashguard, are 21 in. wide by 17 in. deep by 43½ in. high, and the total loading is 6,050 watts. (*The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2.*)



## HEAT AND SOUND INSULATION

Fibreglass Ltd. has just issued a booklet on the use of their material for heat and sound insulation. Almost any form of heat insulation produces such a large financial return, even when applied to existing buildings, that it is difficult to see why, save for the limitations of building licence amounts, it is not always used, at any rate on new buildings. The addition of a 1-in. quilt of bitumen-bonded "Fibreglass" to an ordinary 11-in. cavity wall, plastered, will reduce the transmission value from 0.3 to about 0.12. The addition of a similar layer of "Fibreglass," placed over the joists, in a pitched roof of tiles on battens, brings the U value down from about 0.56 to 0.17, i.e., to slightly less than ¼ of its original value.

The booklet contains a long description of the insulation of factories, and there are a number of diagrams, including some showing methods of fixing the various types of quilt and mat produced. The final section of the booklet deals with the control of impact and airborne sound and with sound absorption.

The diagram below shows a floating timber floor, in which the boards are laid on battens, over a layer of "Fibreglass," and are not nailed to the joists. If sand pugging is used on a layer of plasterboard between the joists, the total sound reduction can be between 25 and 28 phons. Constructional details are also given for the fixing of sound absorbing quilting to walls and ceilings. (*Fibreglass Ltd., Ravenhead, St. Helens, Lancs.*)

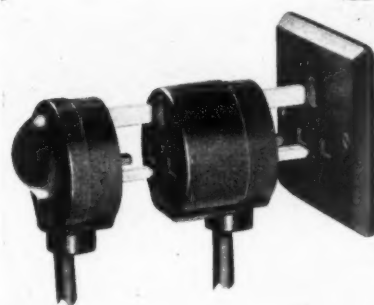
## SANITARY FITTINGS FOR HOSPITALS

The latest catalogue issued by Doulton & Co. deals with sanitary fittings for hospitals and nurses homes. It contains over 60 pages dealing with the specialized equipment for which this firm is so well-known. Only when one sees a catalogue of this kind does one realize the large number of specialized fittings now in production. There are no less than twelve different kinds of lavatory basin, not including the type that dentists ask you to spit into and the many different special purpose sinks. Anyone who has the smallest alteration job to do on the smallest hospital will find this booklet an essential work of reference. (*Doulton & Co. Ltd., Doulton House, Albert Embankment, London, S.E.1.*)

## ACID RESISTING TILES

A new vitrified buff tile has just been introduced by J. H. Sankey & Co. Ltd. This

Right, the new GEC electric cooker; model DC 453, with plinth (price £25 10s.). Below, an illustration from the booklet recently issued by Fibreglass Ltd.; a floating timber floor in which the boards are not nailed to the joists.



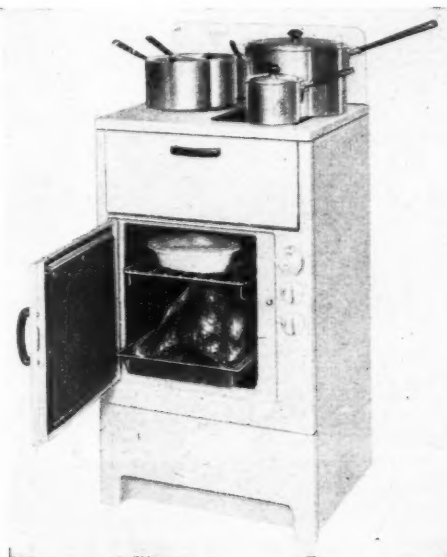
Ediswan "Clix" 13 amp. plug adaptor, with flush socket outlet and fused plug.

firm has, for a number of years, been supplying vitrified acid and alkali resisting bricks and tiles in blue, but they have now found a need for a tile having similar properties but in a lighter colour; hence the new buff tile. These tiles are especially suitable for surfacing in factories and laboratories and in food processing plants, while they can also be used for lining storage tanks. The firm recommends their acid resisting cement for setting these tiles, which are 9½ in. by 4½ in., and are available in thicknesses of ½ in. and 1½ in.; the latter being the more popular. The tiles are said to be very durable and to have a non-slip surface. (*J. H. Sankey & Son Ltd., Aldwych House, Aldwych, London, W.C.2.*)

## Announcements

Allan John Dyer, A.R.I.B.A., of 72, The Grove, West Wickham, Kent, has been appointed to be an architect in Northern Rhodesia. He leaves on the "Bramar Castle" on November 20. Mr. Dyer was born at Shalford, Essex, and educated at the Hayes Church of England School, Beckenham Junior Art School, and the Regent Street Polytechnic. He was elected an Associate of the RIBA in 1950.

A. Beaumont Owles, A.R.I.B.A., practising under the style of Bostock and Partners, informs us that the telephone number of his new office at Ide House, 12, Fife Road, Kingston-upon-Thames, is Kingston 7281. The telephone number and address of his main office at Southall remains unchanged.



It is with regret that we announce the death of Alderman G. E. Marlow, a former Lord Mayor of Sheffield and chairman of W. Marlow & Sons, Ltd. He was also a director of the Ketton Portland Cement Co., Ltd., and Ribblesdale Cement, Ltd. He died on September 6, aged 66, after several months' illness.

Messrs. Chamberlin, Powell & Son have moved to Avenue Studios, 15, Sydney Mews, Fulham Road, London, S.W.3. They will be pleased to receive trade literature at that address.

Mr. John Smith, A.R.I.B.A., D.I.P.T., has been appointed Town Architect and Planner, Newry, County Down, Northern Ireland. He will be pleased to accept trade catalogues, etc.

Guest, Keen & Nettlefolds (Cwmbran), Ltd., Castle Works, Cardiff, announce that they now have a small architectural section and would be pleased to receive trade pamphlets.

Mr. D. A. Stewart, A.M.I.C.E., A.M.I.E.E., is now acting for Messrs. Sandberg, of 40, Grosvenor Gardens, London, S.W.1, as their Consulting Civil Engineer, with particular reference to concrete design and testing.

Benham & Sons, Ltd., Cooking Apparatus Manufacturers, Heating and Ventilating Engineers, announce that their York Branch has moved to larger premises. The new address is:—The Red House, Duncombe Place, York (Tel.: York 54848).

Mr. David Stern, A.R.I.B.A., has asked us to state that there is no professional or other connection between himself and an architect with the same surname as himself, who was the defendant in a recent, much-publicized law case.

Mr. H. C. Wilson Bennetts has been appointed director of sales to Allied Ironfounders Ltd. in place of Mr. W. T. Wren, who has now become assistant managing director.

Messrs. Hatchard-Smith and Bertram, F./A.R.I.B.A., are moving their Reading office to new premises on September 29, 1952, after which date the address will be 22, Minster Street, Reading, Berkshire. The London address remains 11, Haymarket, London, S.W.1.

Mr. Deane Skurray, architect, is moving to new offices on September 29, 1952, after which date his address will be 22, Minster Street, Reading, Berkshire.

Durafencing, Ltd., announce that they have now set up a regional organisation covering the whole country. In future all correspondence should be addressed as follows:—North (including Scotland): Durafencing (Northern), Ltd., 13, Bridge Street, Manchester, 3 (Tel.: Blackfriars 4551); Midlands: Durafencing (Birmingham), Ltd., 257, Coventry Road, Birmingham, 10 (Tel.: Victoria 0224); London and the South: Durafencing (London), Ltd., Bellingham Station, Bromley Road, Catford, S.E.6 (Tel.: Hither Green 5644).

Leslie T. George, L.R.I.B.A., announces that he has entered into partnership with Geo. A. Hobden, M.INST.R.A., and, as from September 1, 1952, will practise with him as Hobden & George, at Bedford Row House, 58, Theobalds Road, W.C.1 (Tel.: Holborn 2624). Mr. George's office at 99, Talgarth Road will remain open for the time being and correspondence may be addressed either there or to Bedford Row House.

Messrs. Ashford & Trower, quantity surveyors, now practising at London House, London Road North, Lowestoft, and 1, Neale Street, Ipswich, Suffolk, have taken into partnership Mr. E. W. Waller, A.R.I.C.S., and are now practising under the title of Messrs. Ashford, Trower & Waller.

The death occurred recently of A. E. Williams, A.R.I.B.A., A.M.P.T.I., A.M.I.STRUCT.E., Deputy County Architect to the West Riding of Yorkshire. Mr. Williams, who was 43 years of age, was born in London. He came

to West Riding in 1949, prior to which he had been Deputy Borough Architect of Newport, Monmouthshire.

Mr. C. Howard Roberts, A.R.I.B.A., Public Works Department, The Secretariat, Ibadan, Nigeria, would be pleased to receive manufacturers' trade literature and catalogues.

## Buildings Illustrated

*Private Flats in Kensington.* (Page 368.)

Architect: R. Jelinck-Karl, L.R.I.B.A., A.I.A.A. General contractors: Holliday & Greenwood Ltd. Sub-contractors: asphalt, Highway Construction Co. Ltd.; bricks, Dorking Brick Co.; artificial stone, Stuarts Granolithic Co. Ltd.; tiles, Camden Tile & Mosaic Co. Ltd.; special roofings, Permanite Co. Ltd.; central heating, Hope's Heating & Engineering Co. Ltd.; gas fixtures, North Thames Gas Board.; electric wiring, The Bective Electrical Co. Ltd.; electric light fixtures, Troughton & Young Ltd., Merchant Adventurers Ltd.; sanitary fittings, John Bolding & Co. Ltd.; door furniture, A. J. Binns Ltd.; casements, Henry Hope & Sons Ltd.; joinery, P. H. Barker & Sons Ltd.; wallpapers, Arthur Sanderson & Sons Ltd.; mantels, John Bolding & Sons Ltd.; special furniture, Story (Contracts) Co. Ltd.

*House at Fitzroy Park, Highgate, N.6.* for

Dr. Richard T. T. Warwick, M.A., B.Sc. (Pages 380-382.) Architect: Stephen Gardiner, A.R.I.B.A., A.A.DIP. General contractor: Leslie Bilsby Ltd. Sub-contractors: bricks, A. Turner & Sons; coping slates, Bow Slate Enamel Co. Ltd.; woodblock flooring, Vigers Bros.; boilers, Agamatic; electric wiring and electric heating, Elmo Ltd. (Ilford); plumbing, E. C. Cannon Ltd.; staircases and casements, W. C. Ware, Ltd.; window furniture, Comyn Ching Ltd.; plaster, London Plasterers Ltd.



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Top photograph by courtesy of Desmond Tripp Ltd.

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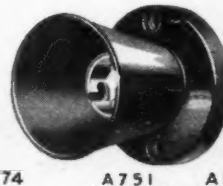


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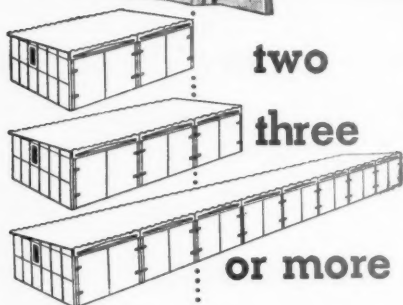
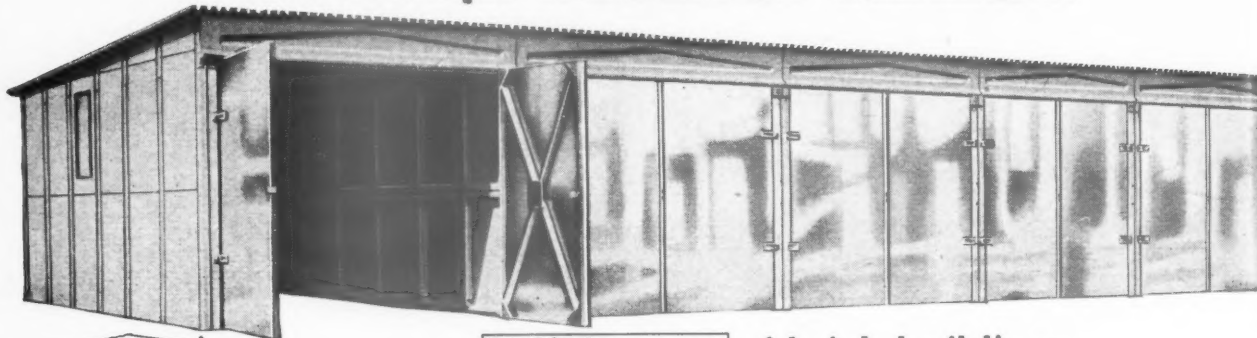
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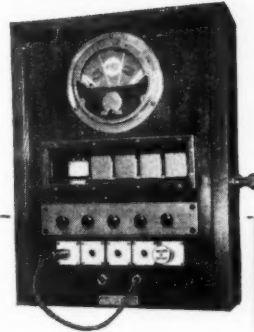
We thought you would be interested to know of the success of your apparatus in preventing extensive damage to our vehicles and property.

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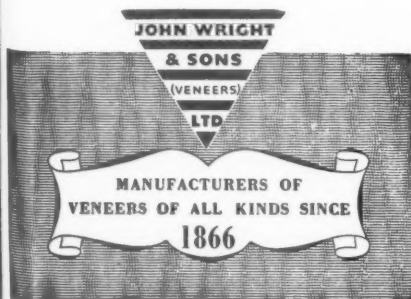
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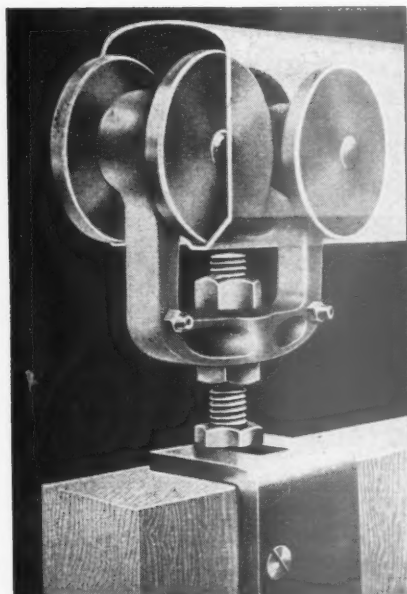
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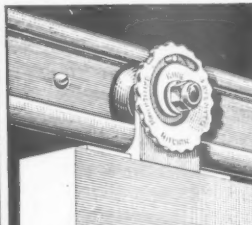


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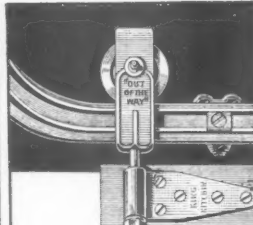
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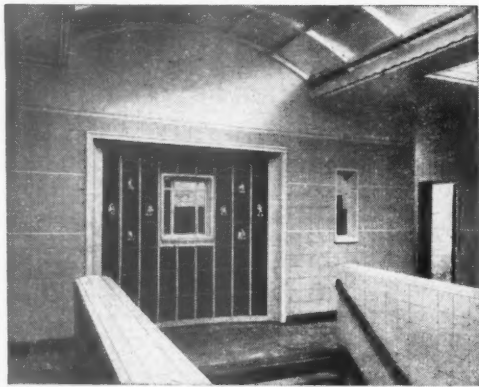
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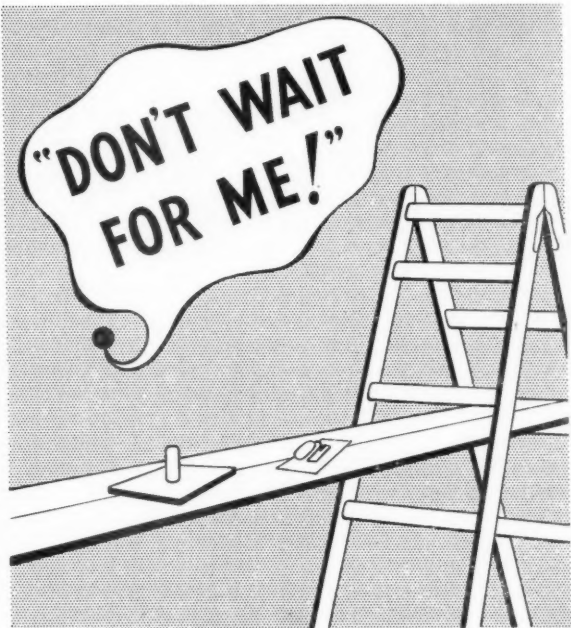
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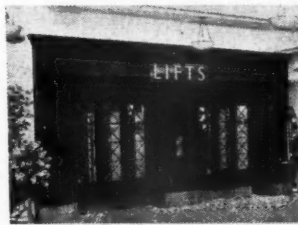
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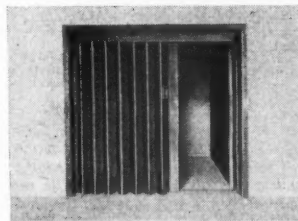


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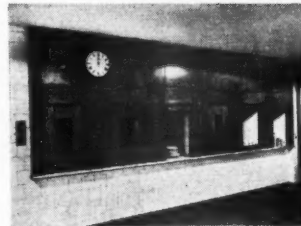
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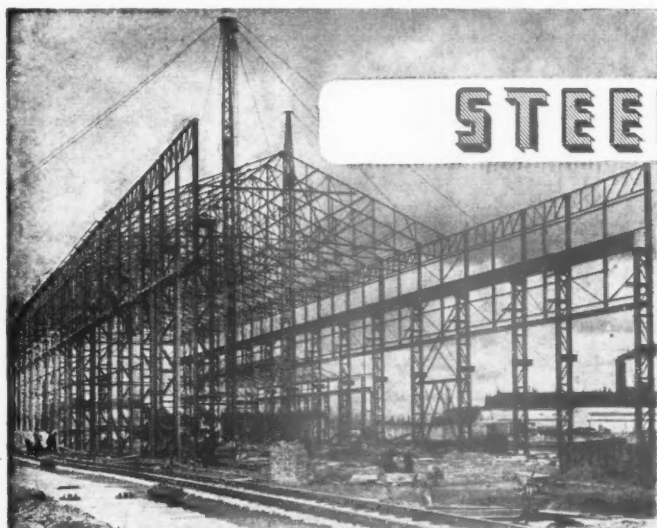
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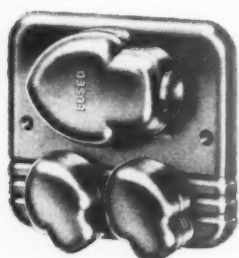
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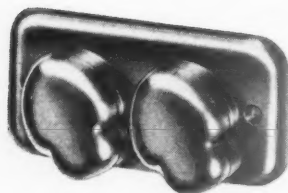
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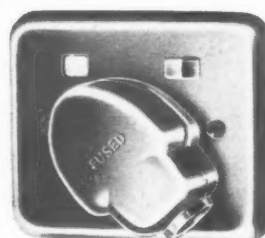


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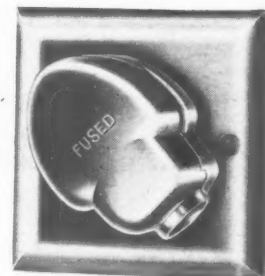
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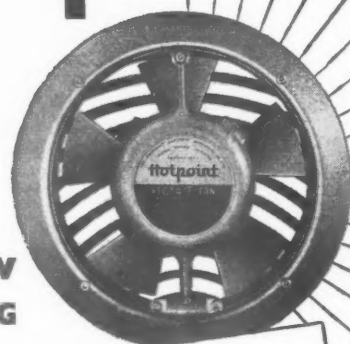
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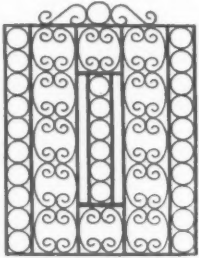
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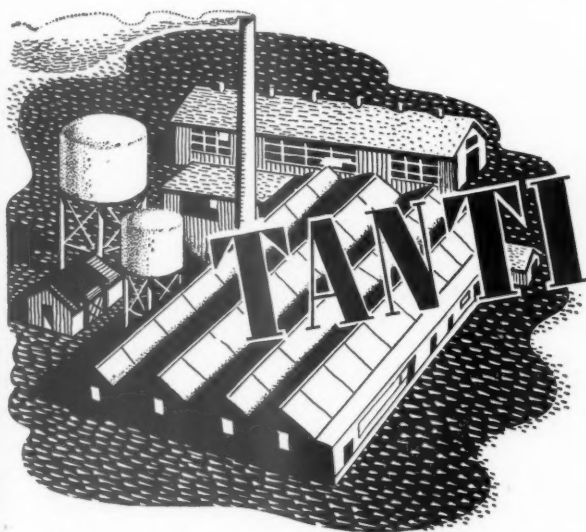
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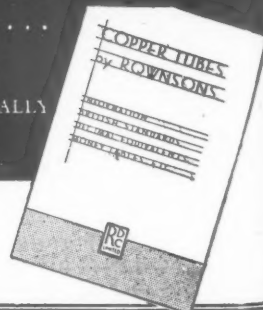
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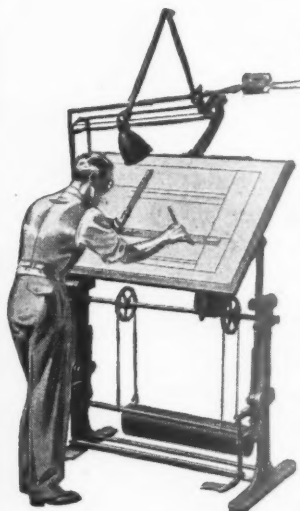


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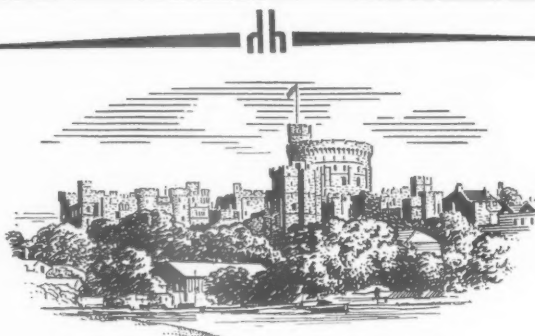
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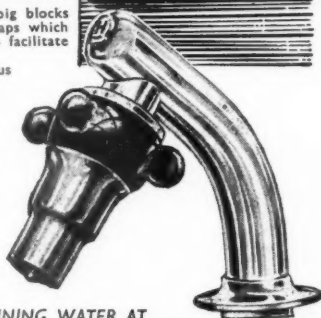
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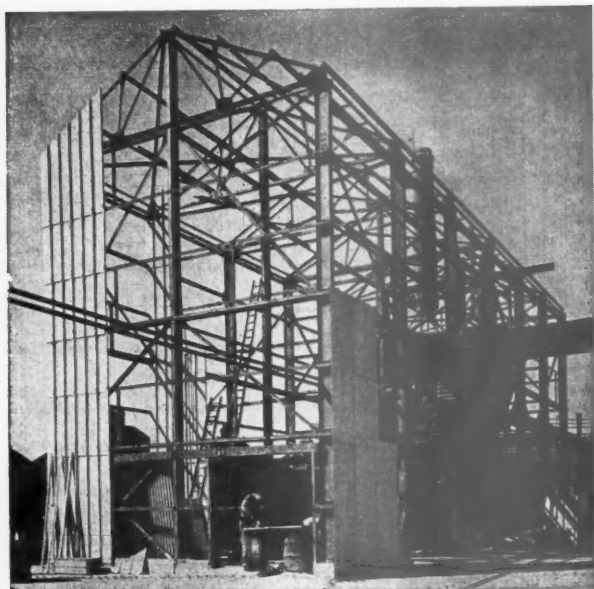
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

## Public and Official Announcements

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

The engagement of persons answering these advertisements must 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 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

LONDON COUNTY COUNCIL  
ARCHITECTS' DEPARTMENT

Vacancies for (1) PLANNING OFFICERS, Grade III (up to £437 10s.) A.R.I.B.A., A.R.I.C.S. and/or A.M.T.P.I. required. (2) TECHNICAL ASSISTANTS (up to £10 a week) with experience as draughtsmen or studying for planning or architectural qualifications. Application forms and particulars from Architect, County Hall, S.E.1, quoting AR/EK/P.4 (1005). 7391

DEVON COUNTY COUNCIL  
ARCHITECTS' DEPARTMENT

Applications are invited for the undermentioned appointments on the permanent staff. Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities.

ONE ASSISTANT ARCHITECT, Grade A.P.T. IX (£315-£335 per annum).

TWO ASSISTANT ARCHITECTS, Grade A.P.T. VI (£270-£275 per annum).

ONE ASSISTANT ARCHITECT, Grade A.P.T. V (£255-£265 per annum).

ONE JUNIOR SURVEYING ASSISTANT, Grade A.P.T. I (£465-£510 per annum).

Application forms, with full particulars of qualifications and experience required for the various posts, are obtainable from the County Architect, 97, Heavitree Road, Exeter, and must be returned to him by Wednesday the 1st October, 1952.

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS,  
Clerk of the County Council.

The Castle, Exeter.  
10th September, 1952. 7394

CITY OF MANCHESTER HOUSING  
COMMITTEE

Applications are invited for the position of DEPUTY to the Chief Assistant Architect in the Housing Department. Applicants should have membership of the R.I.B.A. Experience of architectural work in houses, block flats and ancillary buildings is essential. The post is in Grade A.P.T. VIII (£270-£335 per annum), is superannuable, and subject to the National Scheme of Conditions of Service. Candidates should forward detailed particulars of age, qualifications and experience, together with copies of three testimonials, to the Director of Housing, Town Hall, Manchester, 2, so as to be received by the 11th October, 1952. Canvassing is prohibited. 7425

DERBYSHIRE COUNTY COUNCIL  
COUNTY ARCHITECTS' DEPARTMENT

Applications are invited for the appointments of ARCHITECTS on the permanent staff in accordance with A.P.T. Grade VIII, £260 to £335 by annual increments of £25.

Applications for particulars to be made to F. H. Crossley, County Architect, St. Mary's Gate, Derby, by October 1st, 1952. 7414

## BOROUGH OF SLOUGH

ASSISTANT ARCHITECT, Grade A.P.T. V. For further particulars apply Borough Engineer, Town Hall, Slough, Bucks. Tel.: Slough 23881. 7413

COUNTY BOROUGH OF BURNLEY  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT in the Borough Engineer's Department. The salary grade will be fixed in accordance with experience and qualifications, but the maximum salary offered is Grade V of the National Scales (£570 rising to £620 per annum).

Applicants for this appointment should at least have passed the Intermediate R.I.B.A. Examination and have had good general experience in a Municipal Architect's office.

Conditions of service are those formulated by the National Joint Council. The appointment is on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Canvassing, either directly or indirectly, will disqualify the candidates, and any known relationship to a member or senior officer of the Council must be clearly stated in the application. Forms of application may be obtained from the Borough Engineer and Surveyor, 22-24, Nicholas Street, Burnley, to whom applications should be returned not later than Tuesday, 7th October, 1952.

C. V. THORNFLEY,  
Town Clerk.

7412

## GOVERNMENT OF PUNJAB (PAKISTAN).

Applications are invited for the post of PROVINCIAL TOWN PLANNER to Government of Punjab, to carry out surveys, prepare designs and supervise all town planning works throughout the Province. 5 years' contract; 6 months' on probation.

Pay: Rs.1,600 x 100-2,000 p.m., plus £30 overseas pay with other allowances. Initial pay will be fixed according to qualifications and experience. (Pakistan rupee equals approximately 2s. 2d.) Free passages and medical attention. Provident fund.

Qualifications: Recognised degree or diploma in Town Planning and either degree or diploma in Civil Engineering or Fellow/Associate R.I.B.A. or equivalent, and at least 10 years' experience in town planning.

Age: 35 to 49 years.

Application, on the form to be obtained on request, to be made to the High Commission for Pakistan, 35, Lowndes Square, S.W.1, by the 10th October, 1952. 7438

BOROUGH OF MAIDSTONE  
APPOINTMENT OF JUNIOR  
ARCHITECTURAL ASSISTANT IN BOROUGH  
SURVEYOR'S DEPARTMENT

Applications are invited for the above appointment from candidates who have completed their period of National Service. The commencing salary will be fixed, according to qualifications and experience, within Grades II and III (£495 to £570 per annum).

Candidates must be neat and accurate draughtsmen, with general architectural experience; previous success in a part or parts of the Intermediate Examination of the R.I.B.A. will be an advantage.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, the passing of a medical examination, and one month's notice on either side. The Corporation cannot undertake to assist in any way with the provision of housing accommodation. Canvassing will disqualify.

Applications on forms to be supplied, giving the names and addresses of two referees, must reach the undersigned not later than the 18th October, 1952.

S. F. DIXON,  
Borough Surveyor.

Borough Surveyor's Department,  
Palace Avenue, Maidstone.  
19th September, 1952. 7410

RURAL DISTRICT COUNCIL OF  
NEWMARKET  
ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, which will be subject to the National Conditions of Service and to the Local Government Superannuation Act, 1937. The salary will be in accordance with Grade III of the A.P.T. Division (£525-£570).

The Council will give sympathetic consideration to the question of housing accommodation for the successful applicant.

Applications, stating age, qualifications and experience, together with names of two referees, must reach the undersigned not later than 13th October, 1952.

H. W. EVANS,  
Clerk to the Council.

Council Offices, Park Lane,  
Newmarket, Suffolk. 7443

COUNCIL OF THE COUNTY OF ABERDEEN.  
COUNTY ARCHITECTS' DEPARTMENT.

Applications are invited for the post of TEMPORARY ASSISTANT QUANTITY SURVEYOR in the County Architect's Department. The appointment is for a period of approximately two years. The salary scale for the appointment is £460 to £565 per annum. Placing on the scale will be in accordance with qualifications and experience.

Candidates should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors (Quantities Division).

Forms of application are obtainable from the undersigned and should be returned not later than 15th October, 1952.

Canvassing of members of the Council directly or indirectly in connection with this appointment shall disqualify the candidate.

CHAS. HORNAL,  
County Clerk.

22, Union Terrace, Aberdeen.  
12th September, 1952. 7431

## COUNTY BOROUGH OF BURY.

## BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

(a) ENGINEERING ASSISTANT. Applicants must have successfully completed an Engineering Degree course or have had 3 years' training with a Municipal Engineer.

(b) ARCHITECTURAL ASSISTANT. The salary for each of the appointments is up to Grade A.P.T., III (£525-£570) of the National Scales of Salaries.

The appointments are subject to the Local Government Superannuation Act, 1937, and to medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must be received by me not later than the 4th October, 1952.

EDWARD S. SMITH,  
Town Clerk.

Town Hall, Bury.  
13th September, 1952. 7430

BOROUGH OF RADCLIFFE  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANT

Applications invited for above appointment. Salary A.P.T. Grade III. Experience in preparation of plans, specifications, etc., for housing, public buildings and general municipal work, and thorough knowledge of present day building essential. Superannuation Scheme. Medical Examination.

House available if required.

Applications, stating age, qualifications and experience with two referees must be received not later than first post Saturday, 11th October, 1952.

Canvassing will disqualify.

H. A. FOX,  
Town Clerk.

Town Hall, Radcliffe,  
Lancashire.  
17th September, 1952. 7426

## STEVENAGE DEVELOPMENT CORPORATION

Applications are invited for a post as ASSISTANT ARCHITECT in the Department of Architecture and Planning on salary grade £655 by £30 to £825. Applicants should be fully qualified Architects with experience of large housing contracts.

Housing accommodation will be available in due course in an appropriate case.

Applications, giving details of experience and names of two referees, to be sent to the Chief Administrative Officer, Aston House, Near Stevenage, Herts., not later than Tuesday, 7th October, 1952. 7440

## BOROUGH OF WREXHAM

Applications are invited for the following appointments in connection with Capital Works (Housing):

(a) ARCHITECTURAL ASSISTANT—Salary A.P.T. Grade V, (£595 to £545 per annum).

(b) ENGINEERING ASSISTANT—Salary A.P.T. Grade IV or V, (£555 to £600 or £535 to £645 per annum), according to qualifications and experience.

Applicants for appointment—

(a) Should be Associate Members of the R.I.B.A. or hold equivalent qualifications and have a general architectural experience.

(b) Should hold appropriate qualifications and have a general experience in Municipal Engineering, and the supervision of the construction of roads and sewers.

The Council is prepared to offer housing accommodation to the successful applicants, if married. Particulars and conditions of service may be obtained from the Borough Engineer & Surveyor, 31, Chester Street, Wrexham.

Applications on the prescribed form together with the names and addresses of two persons from whom reference may be obtained, should be delivered to the undersigned in an envelope bearing the appropriate endorsement not later than the first post on Monday, 13th October, 1952.

PHILIP J. WALTERS,  
Town Clerk.

Guildhall, Wrexham. 7436

HAYES AND HARLINGTON URBAN  
DISTRICT COUNCIL.  
MAINTENANCE SURVEYOR.

Applications are invited for the permanent appointment of Maintenance Surveyor, in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T. Division, Grade V(a), of the Scales of Salaries, i.e., £625 to £685 per annum, plus appropriate London "weighting." Candidates must have had administrative experience in Building Surveying, and the supervision and organisation of maintenance of buildings of all types.

The successful candidate will be responsible for the preparation of reports, supervision of work, and all other matters relating to the maintenance of school and other buildings under the control of the Engineer and Surveyor's Department.

The Council is unable to assist the successful candidate with the provision of housing accommodation.

Forms of application may be obtained upon receipt of a stamped addressed envelope, from the Engineer and Surveyor, Town Hall, Hayes, Middlesex, to whom completed applications must be returned by 9 a.m. on Wednesday, 8th October, 1952. The envelope containing a request for a form of application should not be endorsed.

A. E. HIGGINS,  
Clerk of the Council.

HAYES AND HARLINGTON URBAN  
DISTRICT COUNCIL.  
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T. Division, Grade III, of the Scales of Salaries, i.e., £525 to £570 per annum, plus appropriate London "weighting." Preference will be given to applicants who have passed the Intermediate Examination of the R.I.B.A.

The Council is unable to assist the successful candidate with the provision of housing accommodation.

Forms of application may be obtained, upon receipt of a stamped addressed envelope, from the Engineer and Surveyor, Town Hall, Hayes, Middlesex, to whom completed applications must be returned by 9 a.m. on Wednesday, 8th October, 1952. The envelope containing a request for a form of application should not be endorsed.

A. E. HIGGINS,  
Clerk of the Council.

7428

**BOROUGH OF MANSFIELD  
TEMPORARY QUANTITY SURVEYING  
ASSISTANT**

Applications are invited from suitably qualified persons for the appointment of Temporary Quantity Surveying Assistant in the Borough Engineer and Surveyor's Department. (The period of employment is not expected to be less than two years.)

Salary will be in accordance with Grade A.P.T. 11, £495-£540, and applicants should be experienced in abstracting and billing, measuring on site, preparation of Final Accounts and taking off Quantities for varied works.

Applications stating age, marital state, training qualifications and experience, together with copies of not more than three testimonials, must be sent to the undersigned not later than Monday, 6th October, 1952, endorsed "Quantity Surveying Assistant."

The appointment is subject to the following conditions:—

1. National Joint Council's Scales of Salaries and Conditions of Service.
2. Residence within the Borough.

A. C. SHEPHERD,  
Town Clerk.

Carr Bank, Mansfield,  
10th September, 1952.

7411

**NEW TOWN OF CWMBRAN  
(MONMOUTHSHIRE)**

Applications are invited for the following appointments in the department of the Chief Architect, J. C. P. West, A.R.I.B.A., A.M.T.P.I.:—

(a) **TWO JUNIOR ARCHITECTURAL ASSISTANTS** at salary in accordance with the Scale £450 by £25 to £525 p.a.

(b) **ONE CLERICAL ASSISTANT** for the Quantity Surveying Section, at a salary in accordance with the Scale £275 by £4 to £320 plus £3 at £25 to £430.

Salaries will commence at points within the Scales in accordance with qualifications and experience.

Applicants for appointment (a) should be graduate Architects and have completed a satisfactory period of professional training.

For appointment (b) the applicants should have had experience in a Builder's or Quantity Surveyor's Office. This post is an excellent opportunity for one who is prepared to study for professional qualifications.

The appointments are supernumerary and the successful applicants will be required to furnish a medical certificate of fitness.

Applications stating age, experience, qualifications, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by Friday, 10th October, 1952.

Envelopes should be endorsed either "Junior Architect" or "Clerical Assistant."

T. W. REES,  
General Manager.

Victoria Street, Cwmbran, Mon.

7435

**WEST SUFFOLK COUNTY COUNCIL**

**PLANNING ASSISTANT.** N.J.C. service conditions, salary £465-£540 (A.P.T. 1-11). Post pensionable; medical examination. Should be Student Member of Town Planning Institute, with experience in a Planning Department or have completed course of training in Town Planning at centre recognised by Joint Examination Board. Duties of general nature, including work primarily in connection with Development Plans for Urban and Rural Areas.

Application forms obtainable from Clerk of the County Council, Shire Hall, Bury St. Edmunds, to be returned by 11th October, 1952.

7427

**COUNTY BOROUGH OF NEWPORT, MON.**

Applications are invited at once for the permanent appointment of **ASSISTANT ARCHITECT** at a salary £710-£785, Grade VII. Further information and conditions of appointment obtainable from Johnson Blackett, F.R.I.B.A., Borough Architect, Civic Centre, Newport, Mon., to whom applications should be addressed.

7434

**CITY COUNCIL OF NAIROBI  
APPOINTMENT OF TOWN PLANNING  
ASSISTANT**

The City Council of Nairobi invites applications from persons possessing suitable qualifications and experience for the post of Town Planning Assistant.

The salary attached to the post is £720 per annum rising by annual increments of £35 to £790 per annum, thence by annual increments of £40 to £1,070 by £40 to £1,150 per annum, plus a special temporary allowance. The present special temporary allowance is £170 on £720 and £250 on £1,150. In determining starting salary consideration will be given to the qualifications and experience of the successful candidate.

Applicants must be Members or Associate Members of the Town Planning Institute and hold an additional qualification in Architecture, Engineering or Surveying. Applicants should have had experience in the office of a Local Planning Authority and be capable of carrying out work in connection with the preparation of a development plan.

The appointment is a permanent established post and is subject to a probationary period of six months. The successful candidate will be required to contribute 7½ per cent. of his salary to the Staff Superannuation Fund.

Established employees are entitled to six months' overseas leave inclusive of voyage on full pay following the completion of a full tour of service with a passage allowance up to a maximum of three adult passages and to 21 days' local leave per annum. Staff are also entitled

to certain medical benefits.

Applications stating age, experience and qualifications accompanied by copies of testimonials, a medical certificate of fitness and a recent photograph should be addressed to the Ag. Town Clerk, P.O. Box 661, Nairobi, Kenya, so as to reach him not later than Tuesday, 28th October, 1952.

ROBERT LUNN,  
Acting Town Clerk.

Town Hall, Nairobi,  
9th September, 1952.

7432

**GOVERNMENT OF PUNJAB (PAKISTAN).**

Applications are invited for the post of **ASSISTANT ARCHITECT**, in office of the Government of Punjab, on contract for 2 years, to prepare designs and estimates for Government buildings and to assist the Government's Consulting Architect. Pay: For Pakistanis, Rs.375 to Rs.923 per month; for others, Rs.600 to Rs.1,150 per month, plus 2nd class passages for self and family and £15 overseas pay. (Pakistan rupee equals approximately 2s. 2d.) Initial pay in the above scales to be fixed according to qualifications and experience. Qualifications: A.R.I.B.A. or equivalent.

At least 3 years' experience of Architectural work in Government Department or Architects' firm of repute.

Age preferably between 25 and 40 years.

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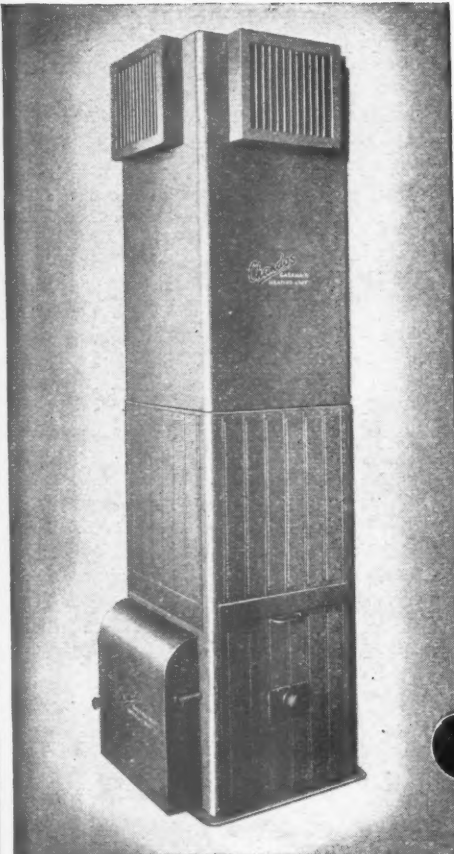
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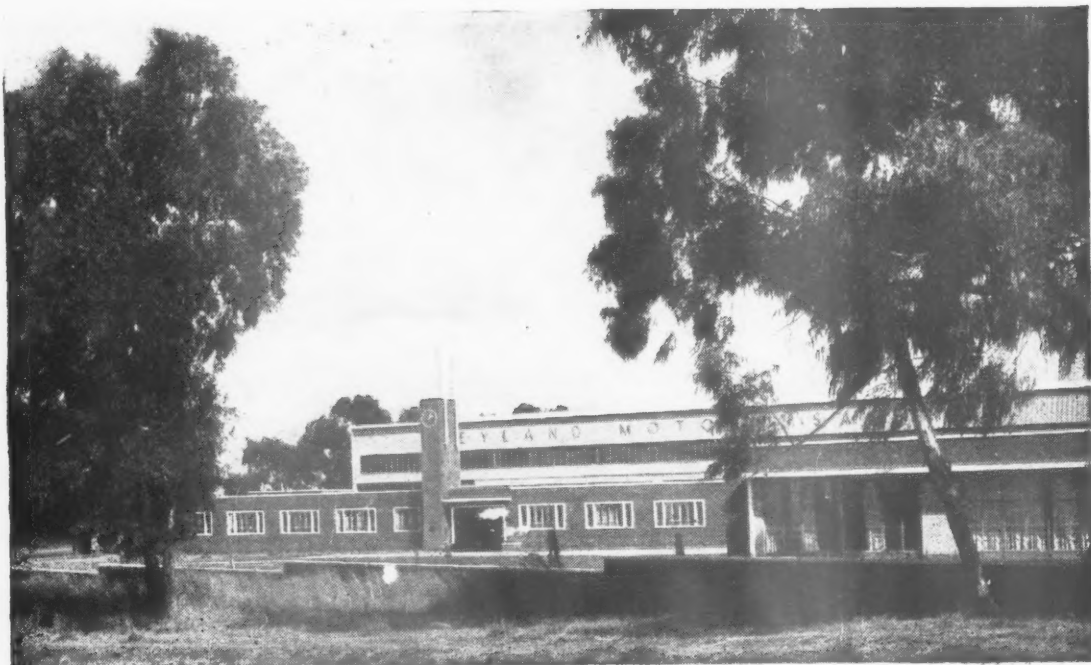
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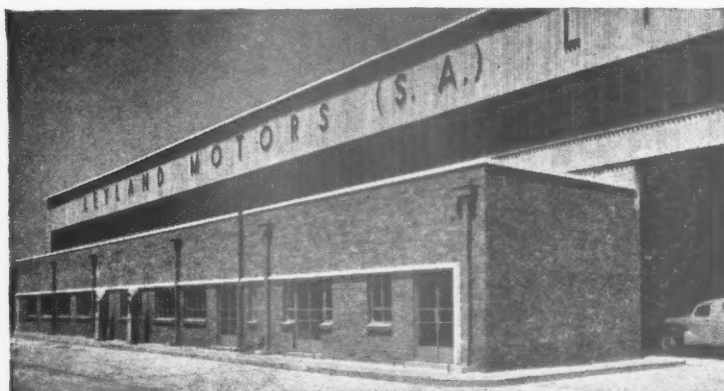
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