

THE ARCHITECTS' JOURNAL

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DETROIT



★ 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 I in one week, I 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, Castle Hill, Avenue, Berkhamstead, Herts.	"Dyneley,"
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 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. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4.	Brixton 7048
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 43, George Street, Croydon.	Croydon 5452
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRs	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Newport 3111
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland.	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 1761
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Waterloo 1951
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
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	The 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
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 5615
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577

standard contents

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

NEWS and COMMENT

Diary

News

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING

SUPPLEMENT

CURRENT BUILDINGS

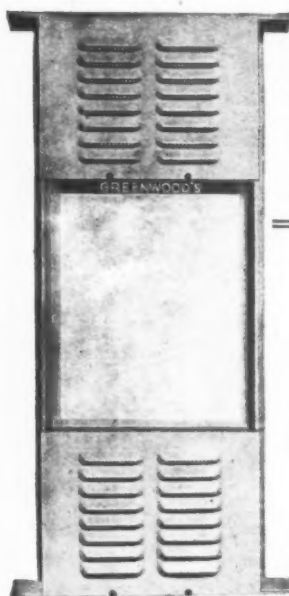
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Wanted and Vacant

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S.W.1. 'Phone: Whitehall 0611

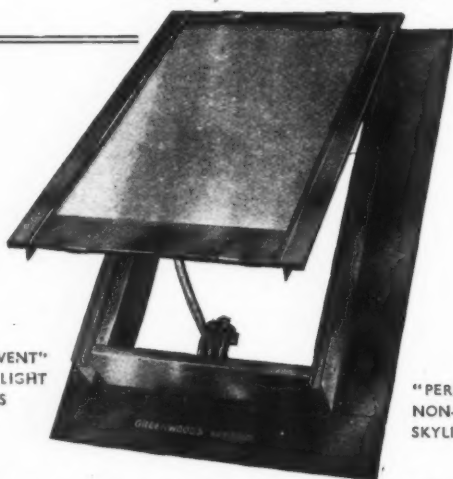
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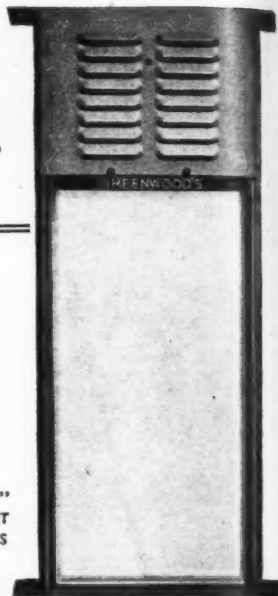
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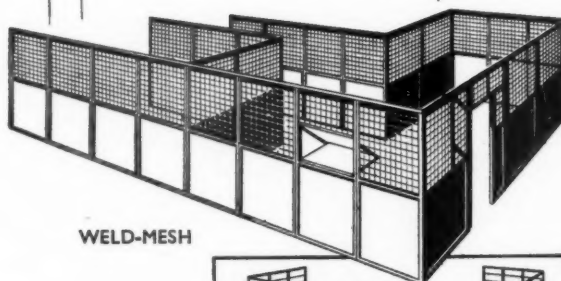
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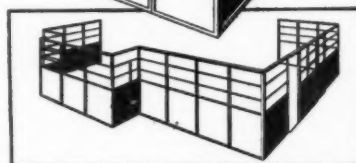
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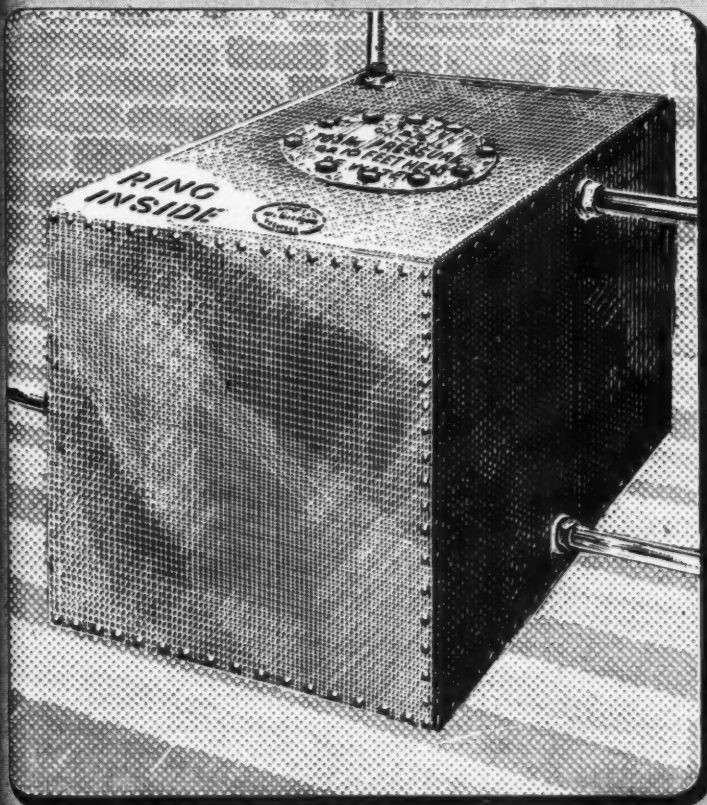
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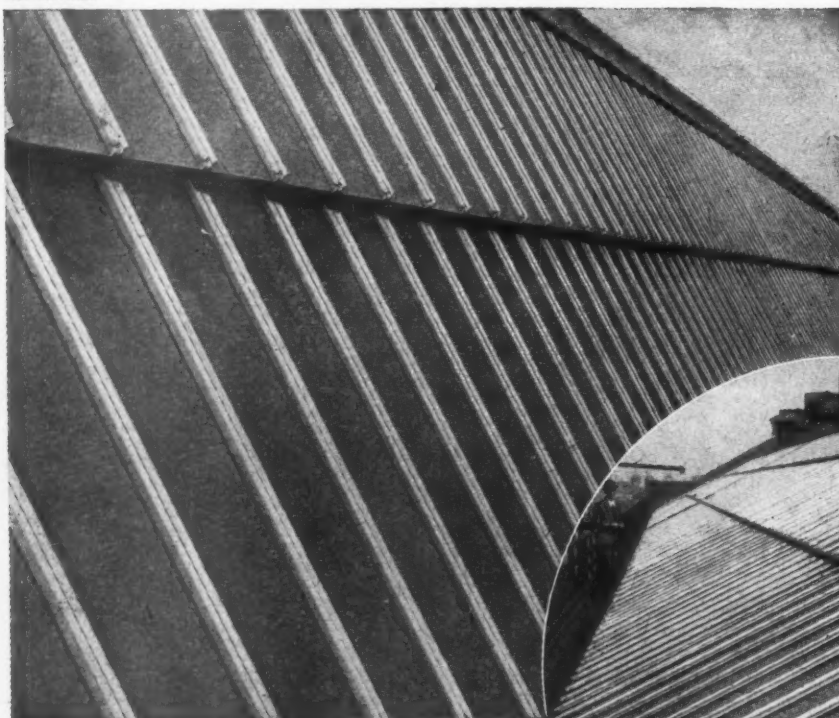
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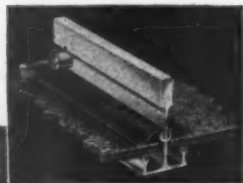
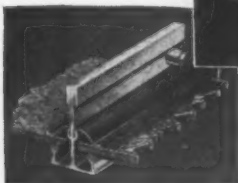
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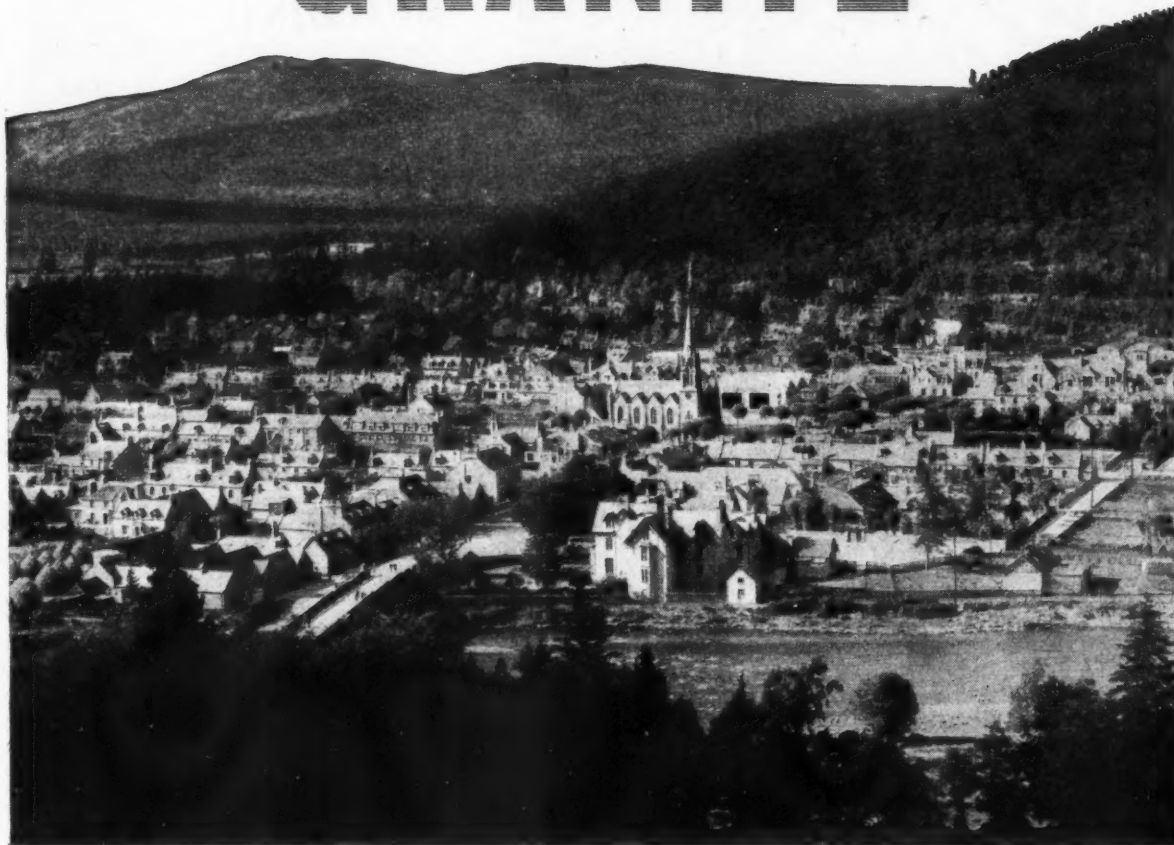
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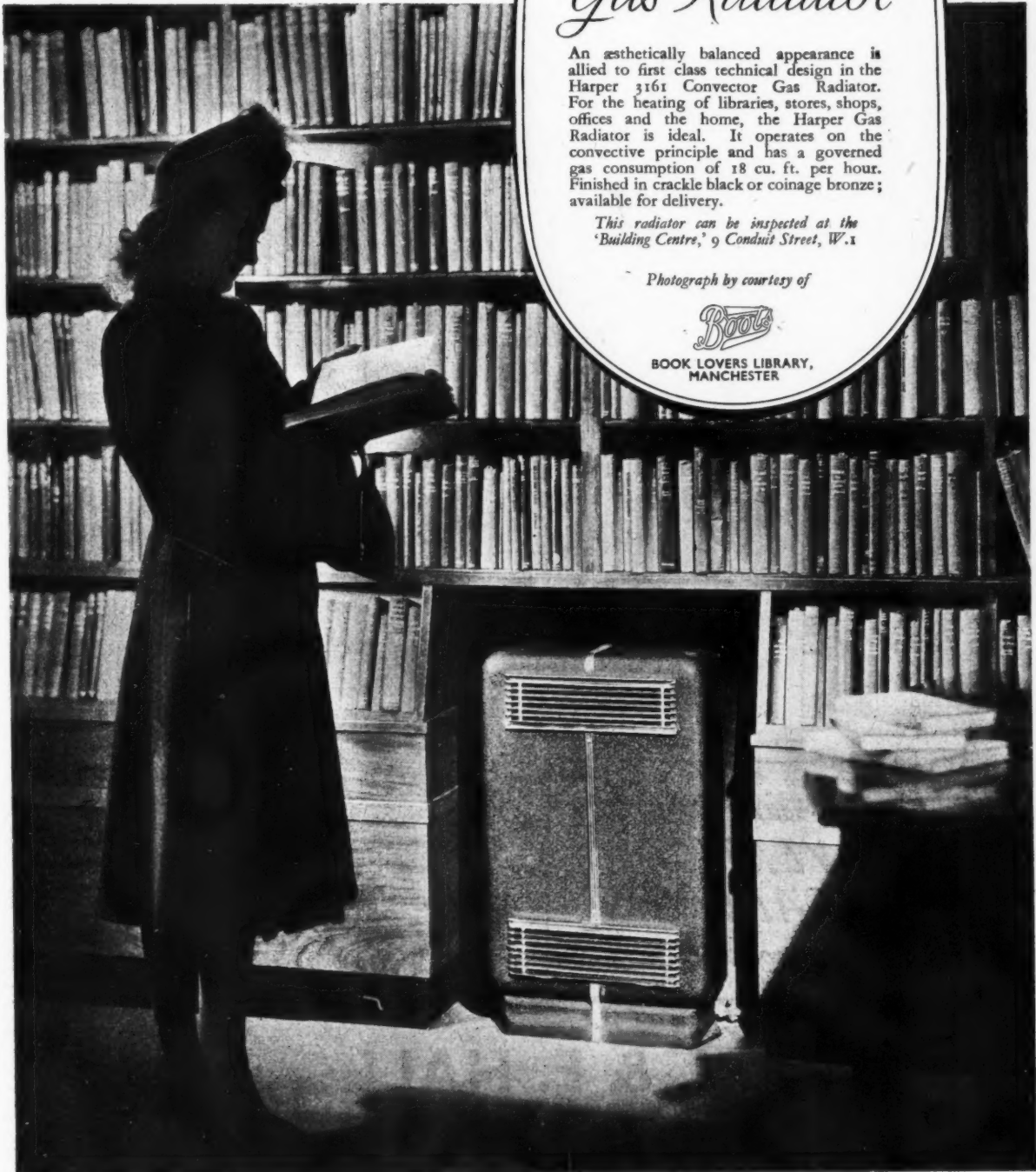
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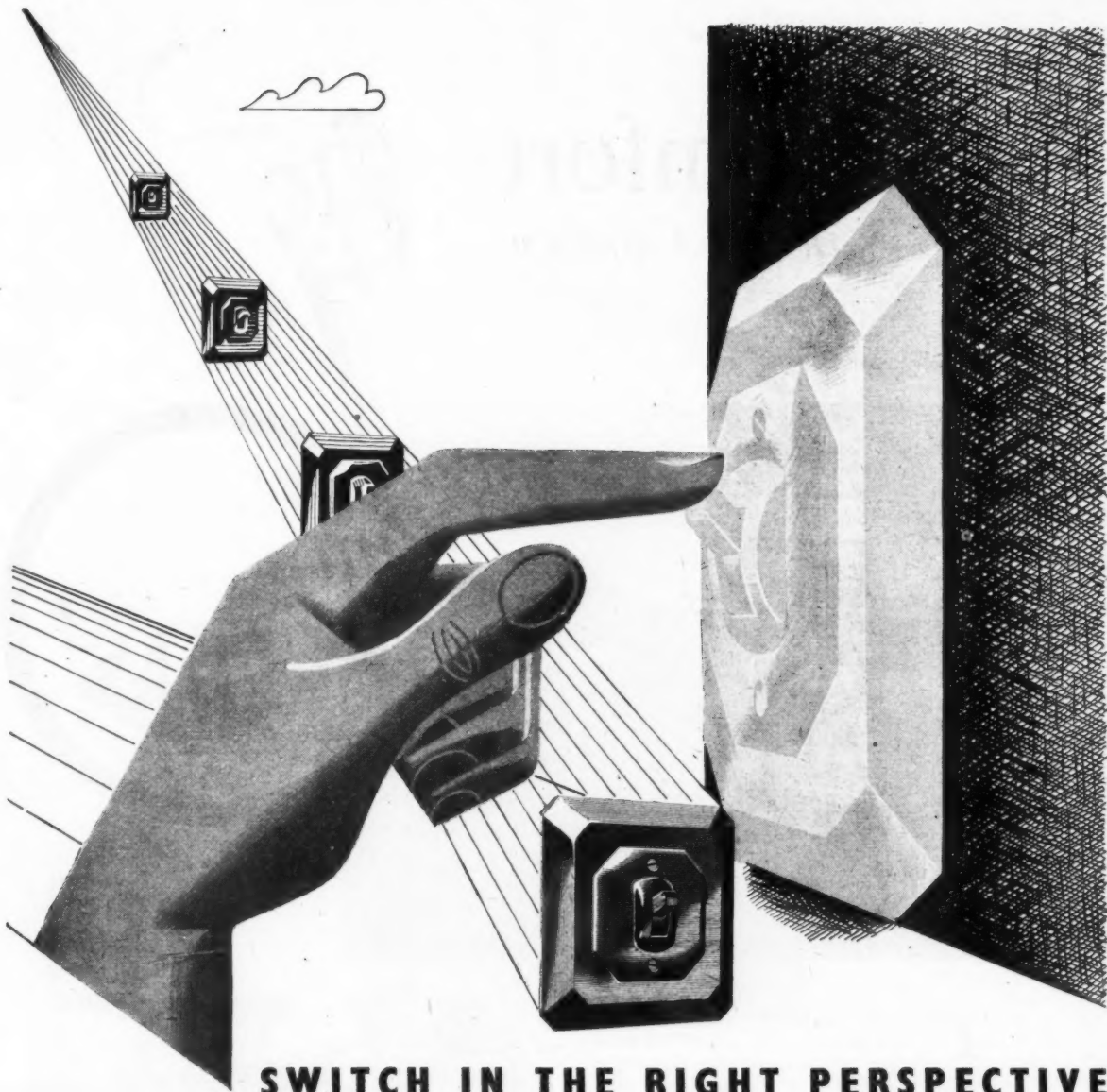


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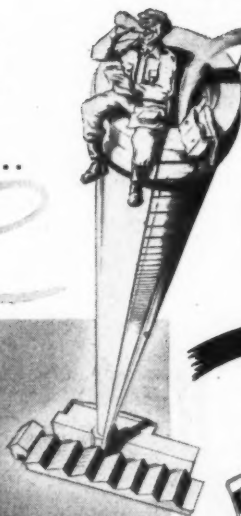
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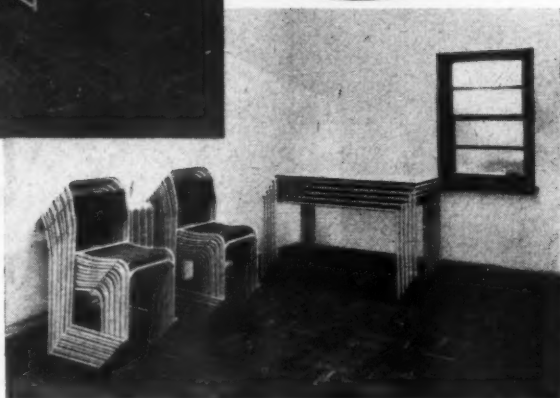


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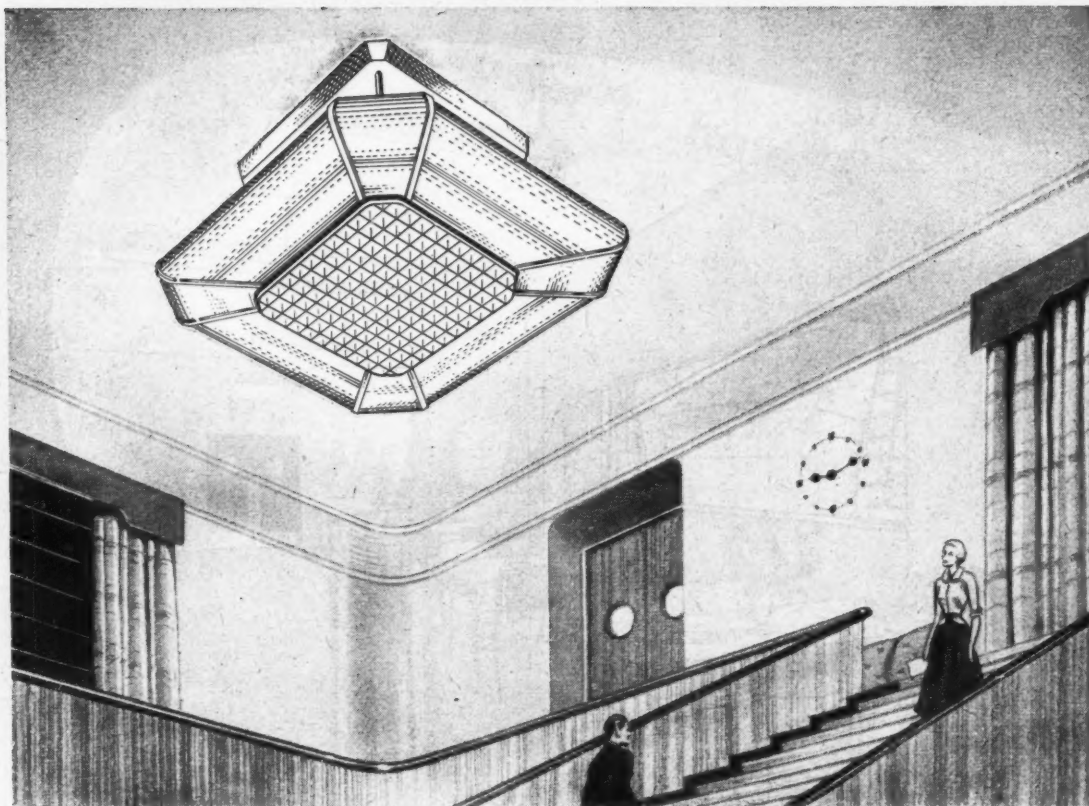
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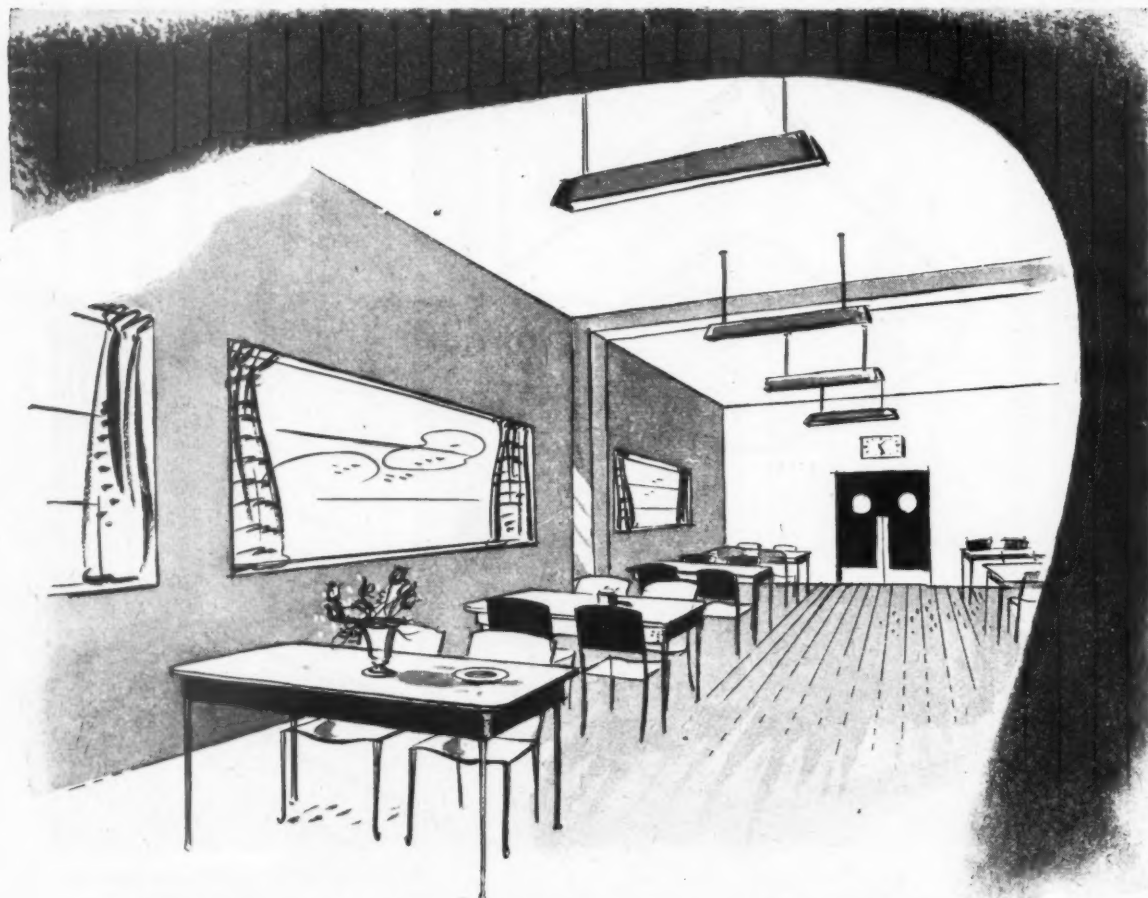
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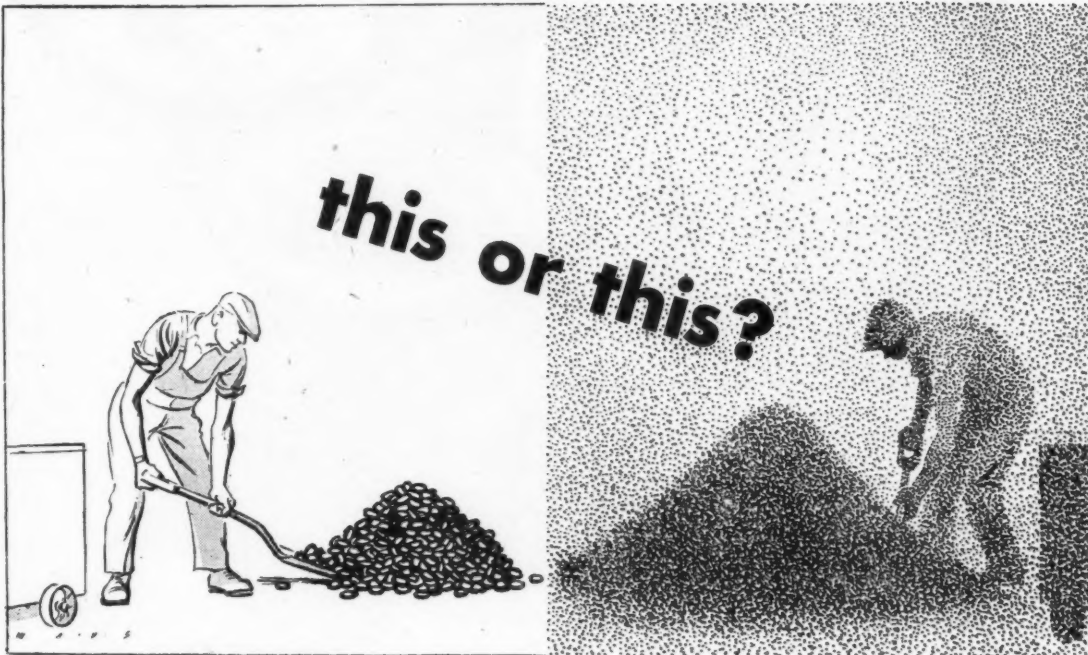
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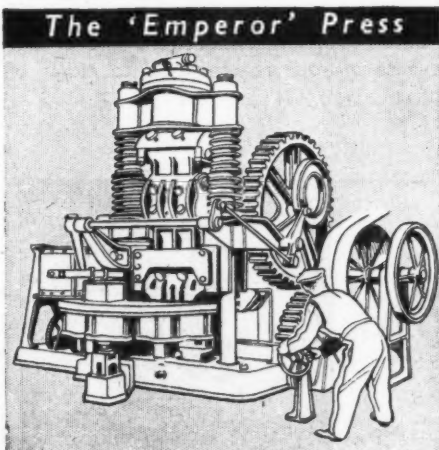


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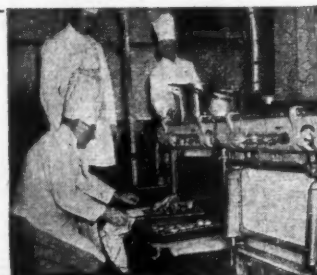


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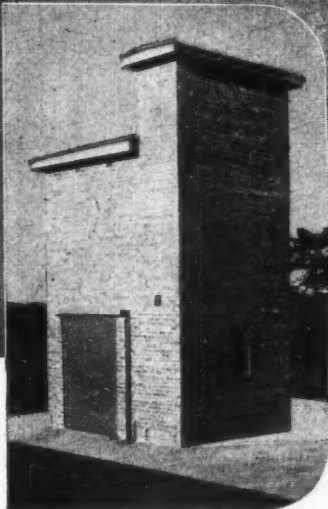
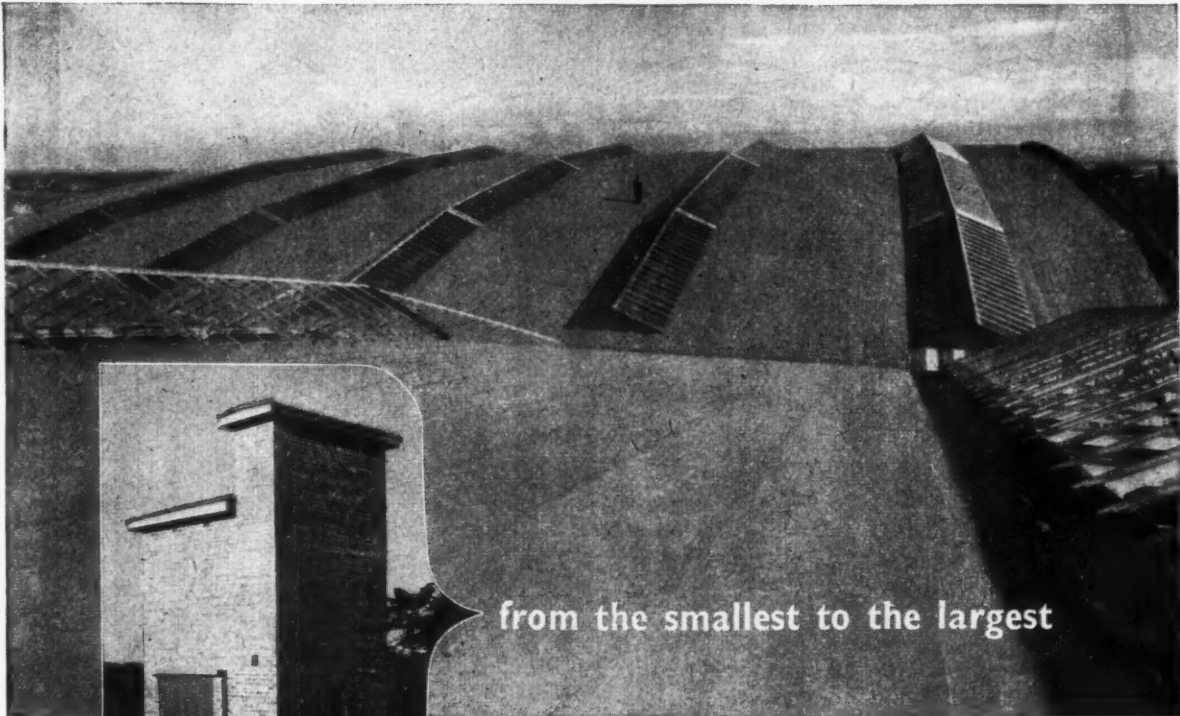
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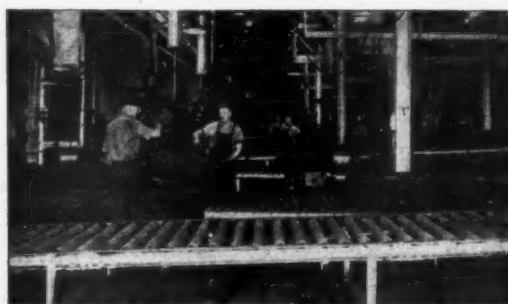


THE CRANE 'WHITEHALL' BOILER

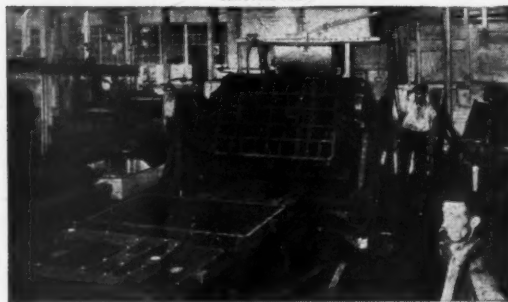
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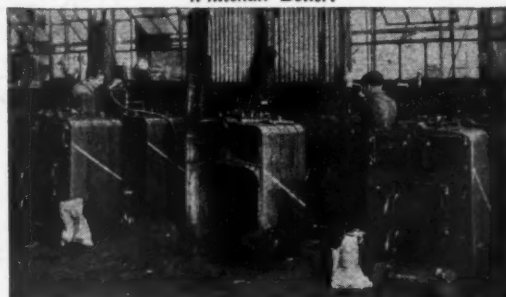
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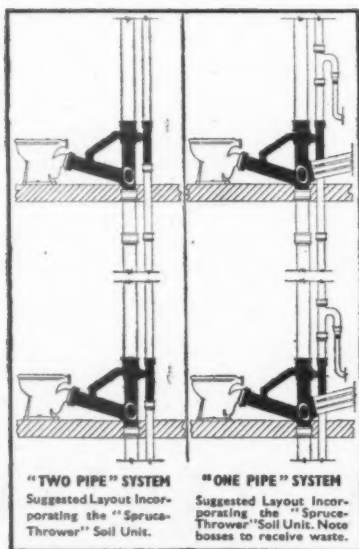
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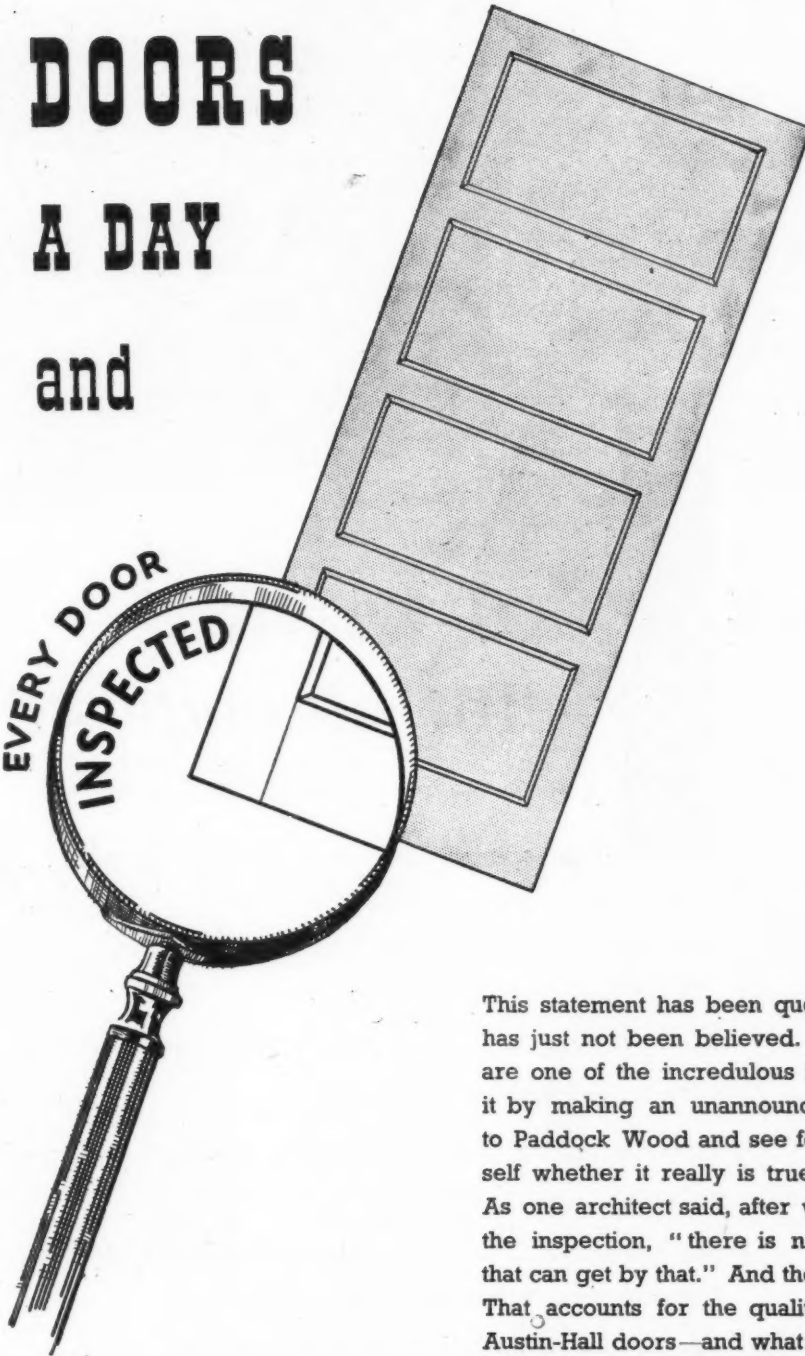
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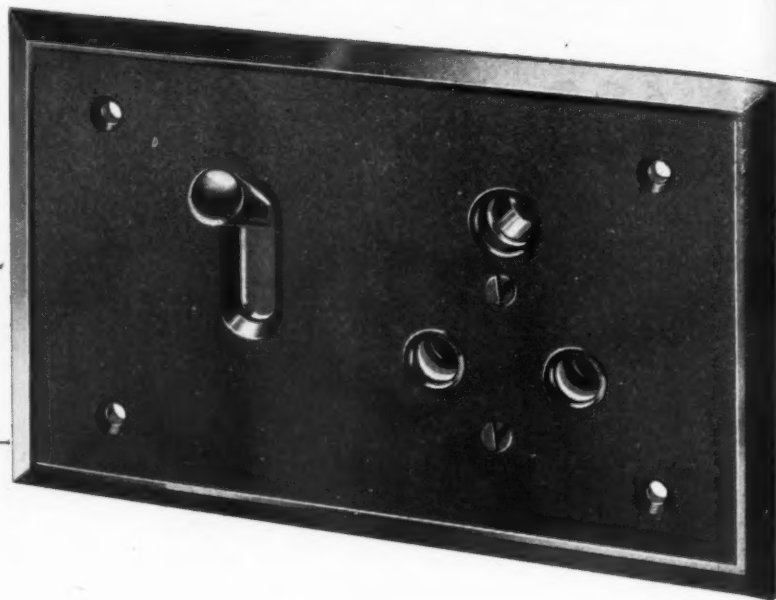
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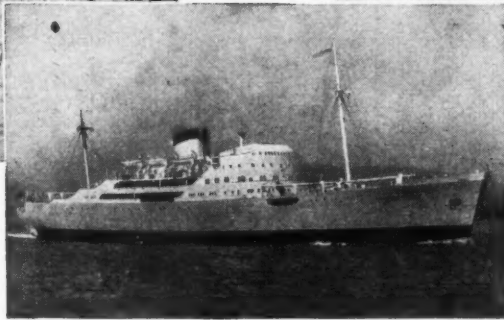
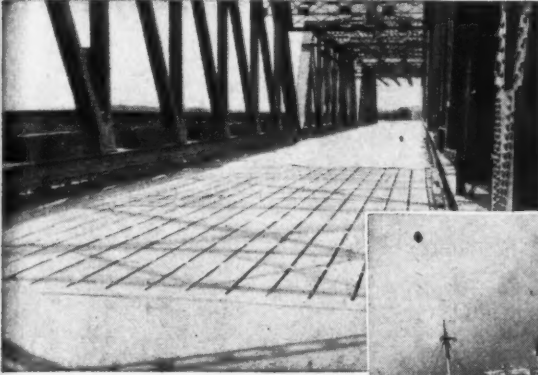
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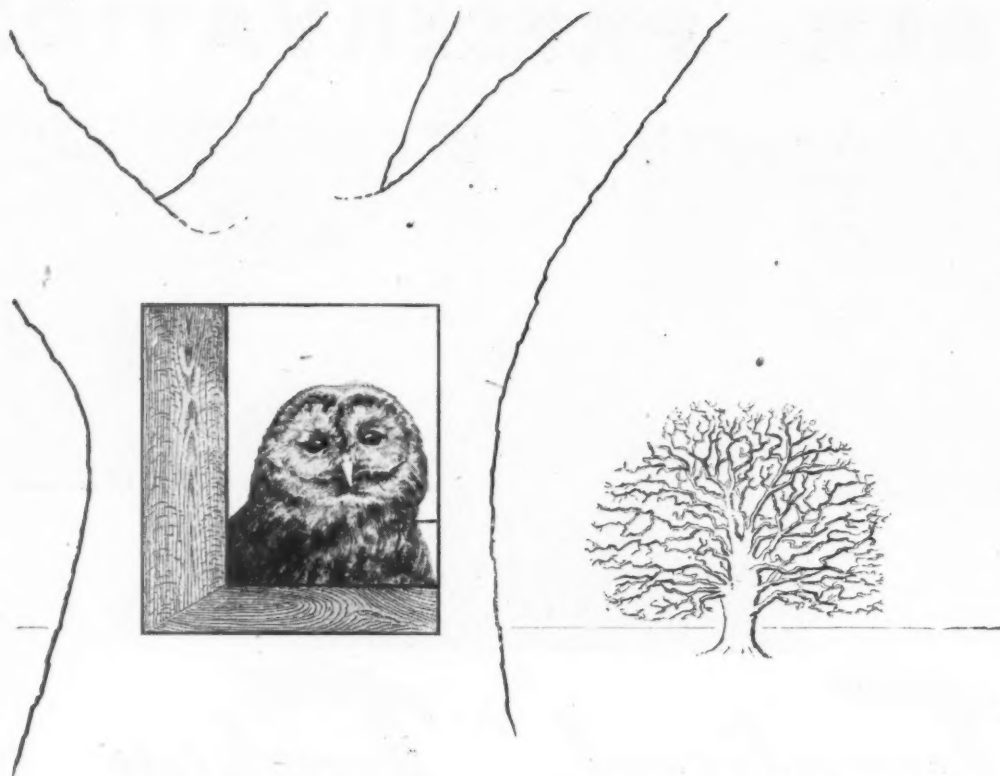
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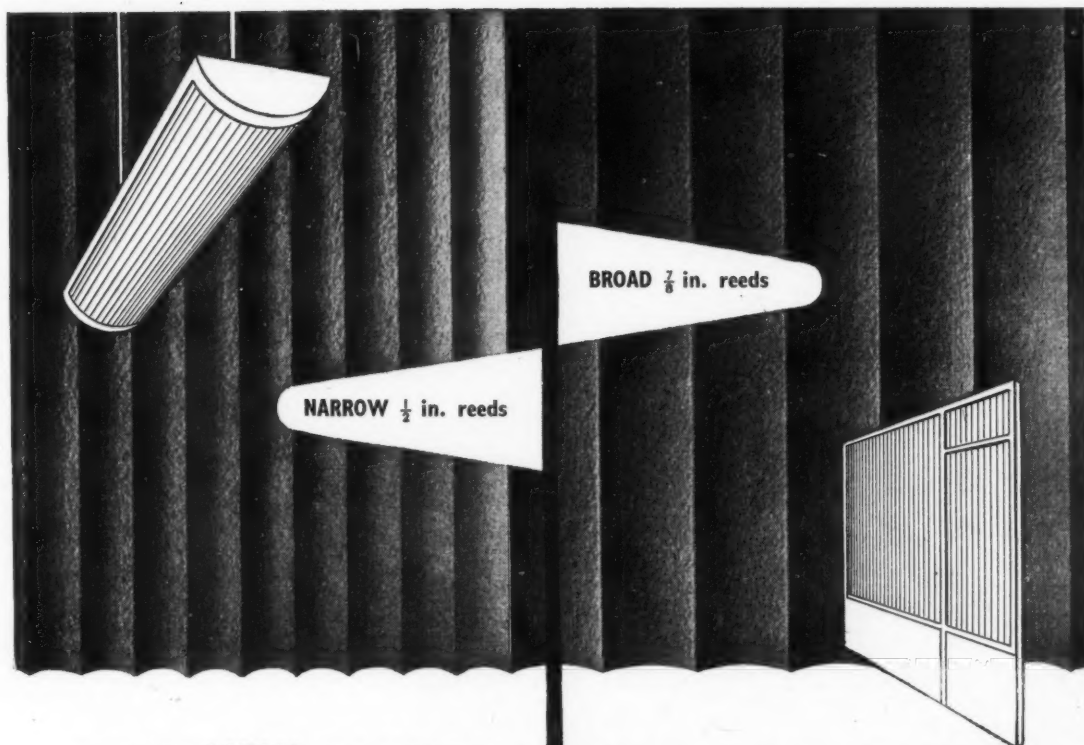


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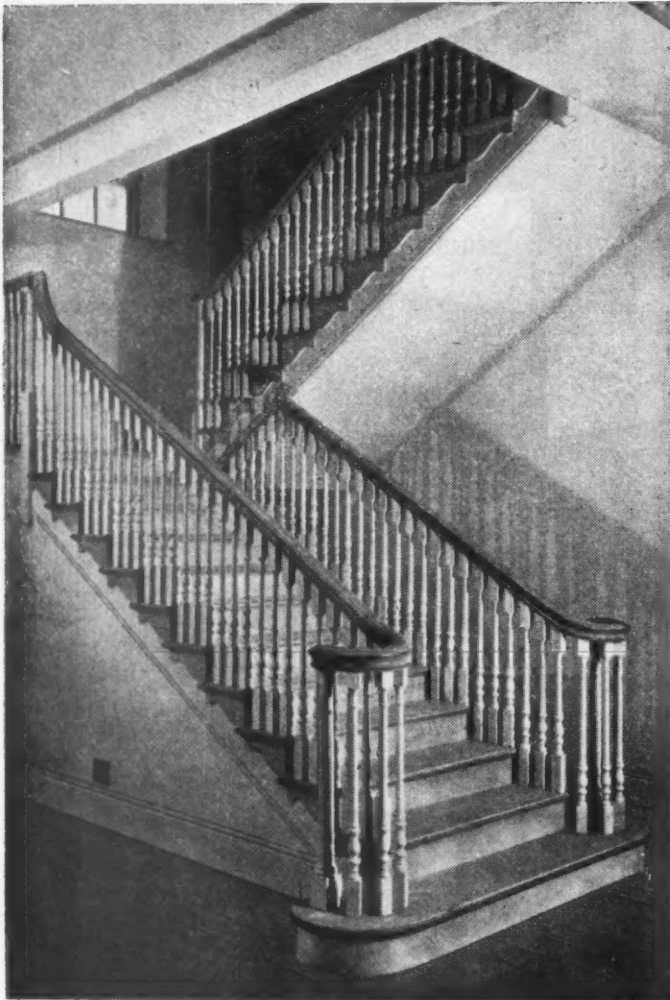
1. Greater obscuring power than the regular reeded glasses. Wherever privacy is the main consideration—in bathrooms, executive offices, etc.—Reedlyte is ideal.
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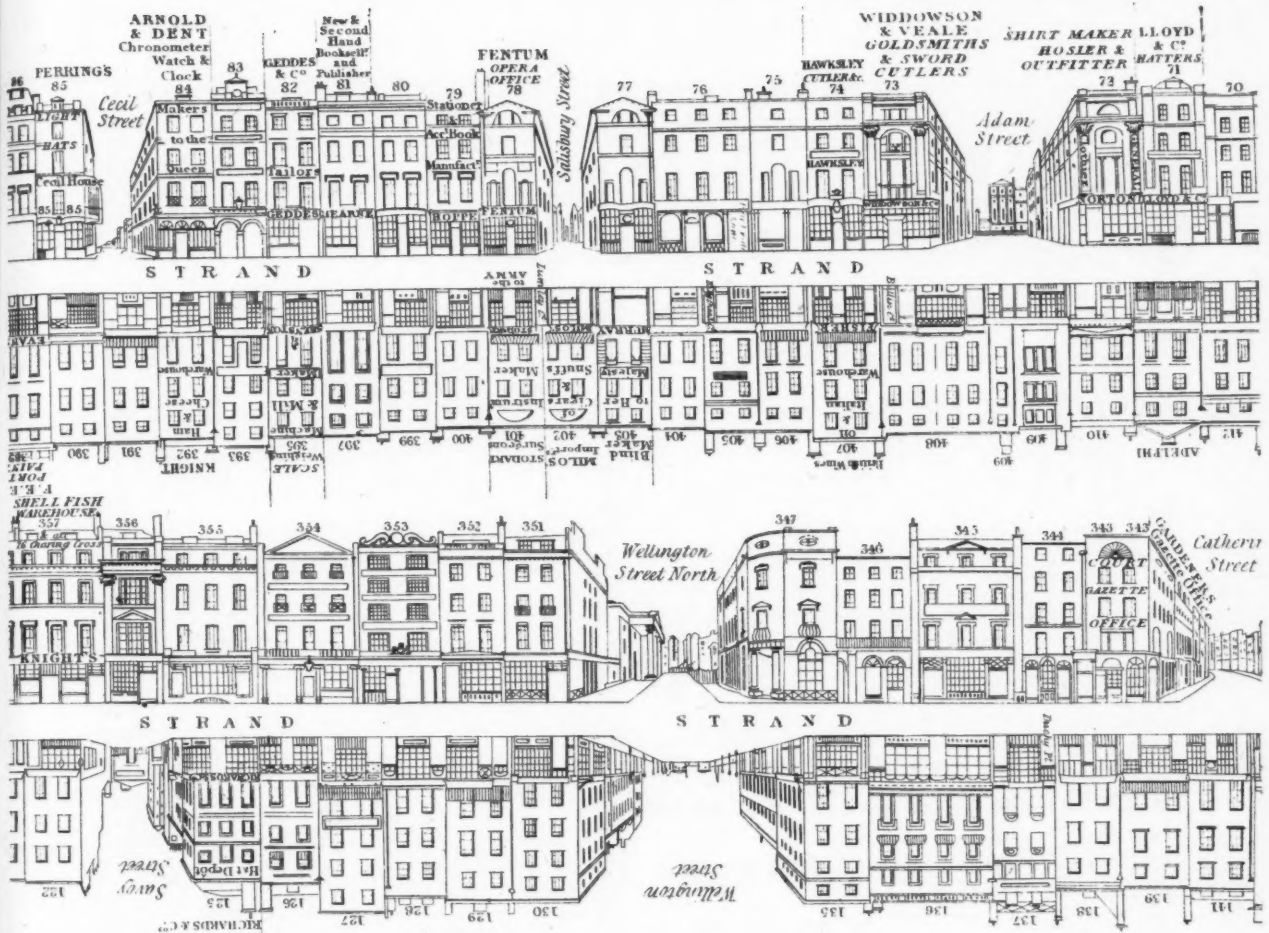


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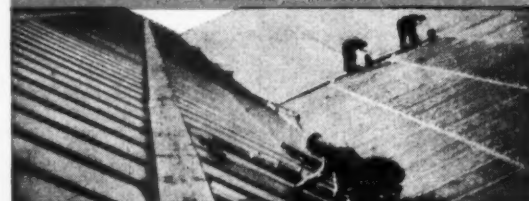
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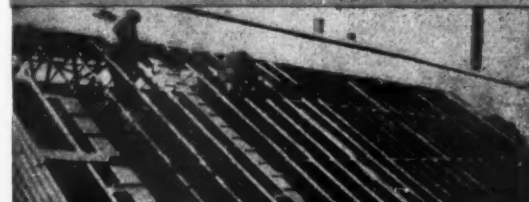
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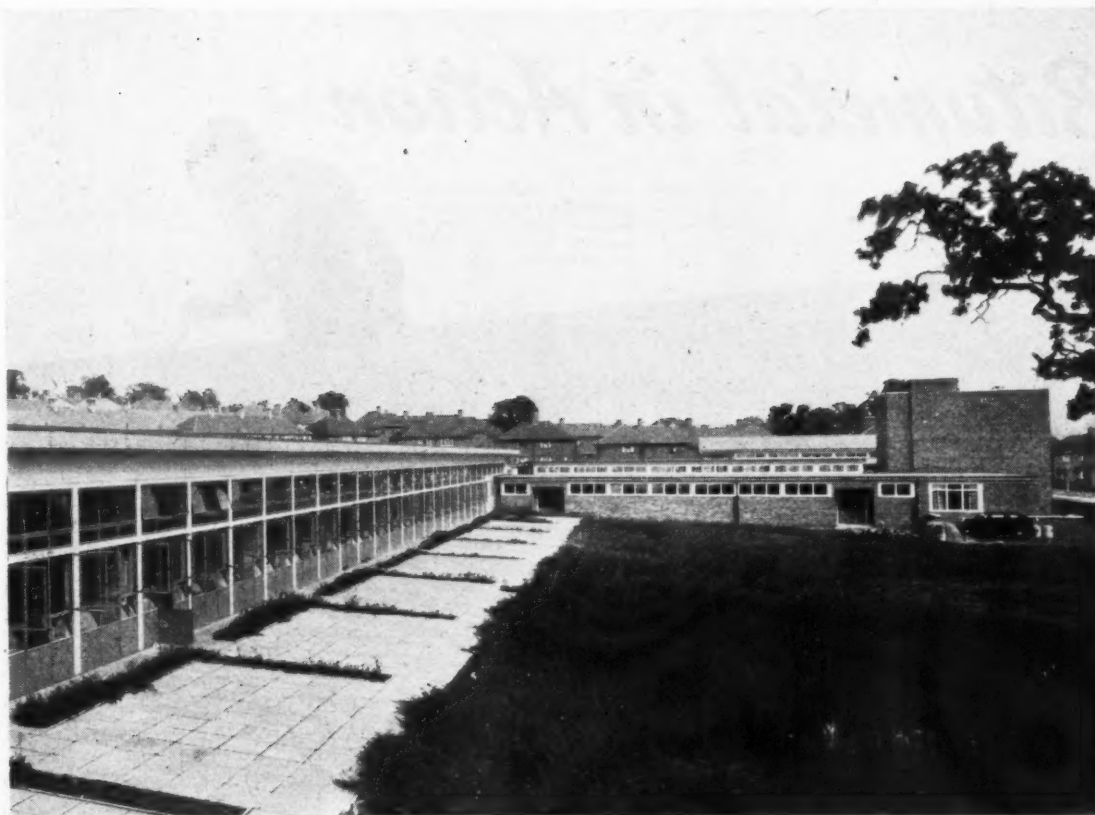


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The school is of single storey steel framed construction, with concrete raft foundation. The exterior is clad partially with brick, partially with metal sheeting. There are steel decked, flat

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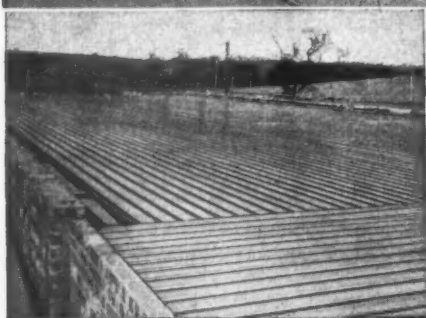
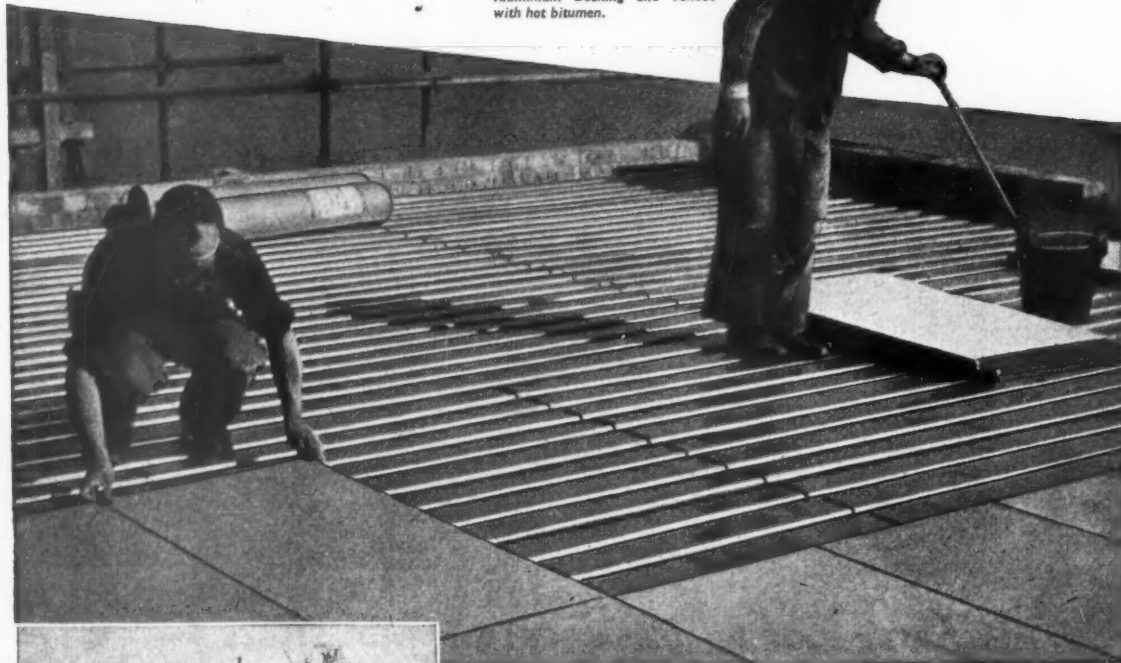
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<p>Assembly Halls at New Junior & Infants' School, Loughton, Essex. Architect: H. Conolly, Esq., F.R.I.B.A., Essex County Council.</p>	<p>Post Office, Larbert. Architects: G.P.O.</p>
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U and The Wall

Just one course



upon another

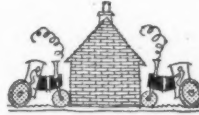


but think what a brick wall

does for a house.



It makes it very strong



and gives it a pleasant

appearance.



It needs no maintenance,



resists rain penetration

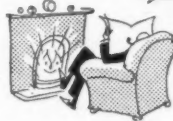


and keeps fire



at bay. But what of the interior? A brick house

usually is warm and snug:

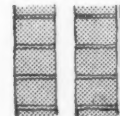


Not quite sufficient, perhaps, if you talk in U's, but that

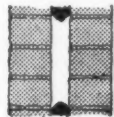
is easily solved.



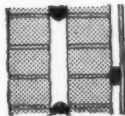
An 11" cavity brick wall, ventilated, plastered on the inner face



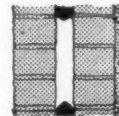
has a U-value of 0.34. Seal the cavity



and it becomes 0.30. With $\frac{3}{8}$ " plasterboard on battens

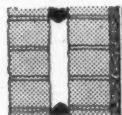


It is 0.23. Line the inner face with $\frac{1}{2}$ " cork, plastered

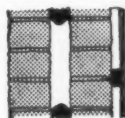


and the result is 0.21.

With 1" wood wool, plastered

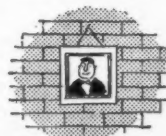


the U-value is 0.20. With $\frac{1}{2}$ " fibreboard on battens



It is 0.18. And there are many other methods. But the important thing is that, whatever

you put on the inner face of a brick wall



you still have a jolly good wall.

BRICK

Note: The type of exposure, whether North, South, East or West, & whether sheltered from wind or not, will, of course, vary the value of walls of similar construction.

Issued by The National Federation of Clay Industries



This drawing of zinc sprayers at work in Reliance works, Chester, was drawn by Miss Ruth Hurlle and forms part of a series "Window Makers at Work" by artists commissioned by Williams & Williams Ltd.

Daily this gunman sprays
one ton of steel window frames with
100 lbs. of molten zinc. The coil of zinc wire
is drawn from the cylinder into the spray-gun,
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This—and other anti-corrosion treatments in
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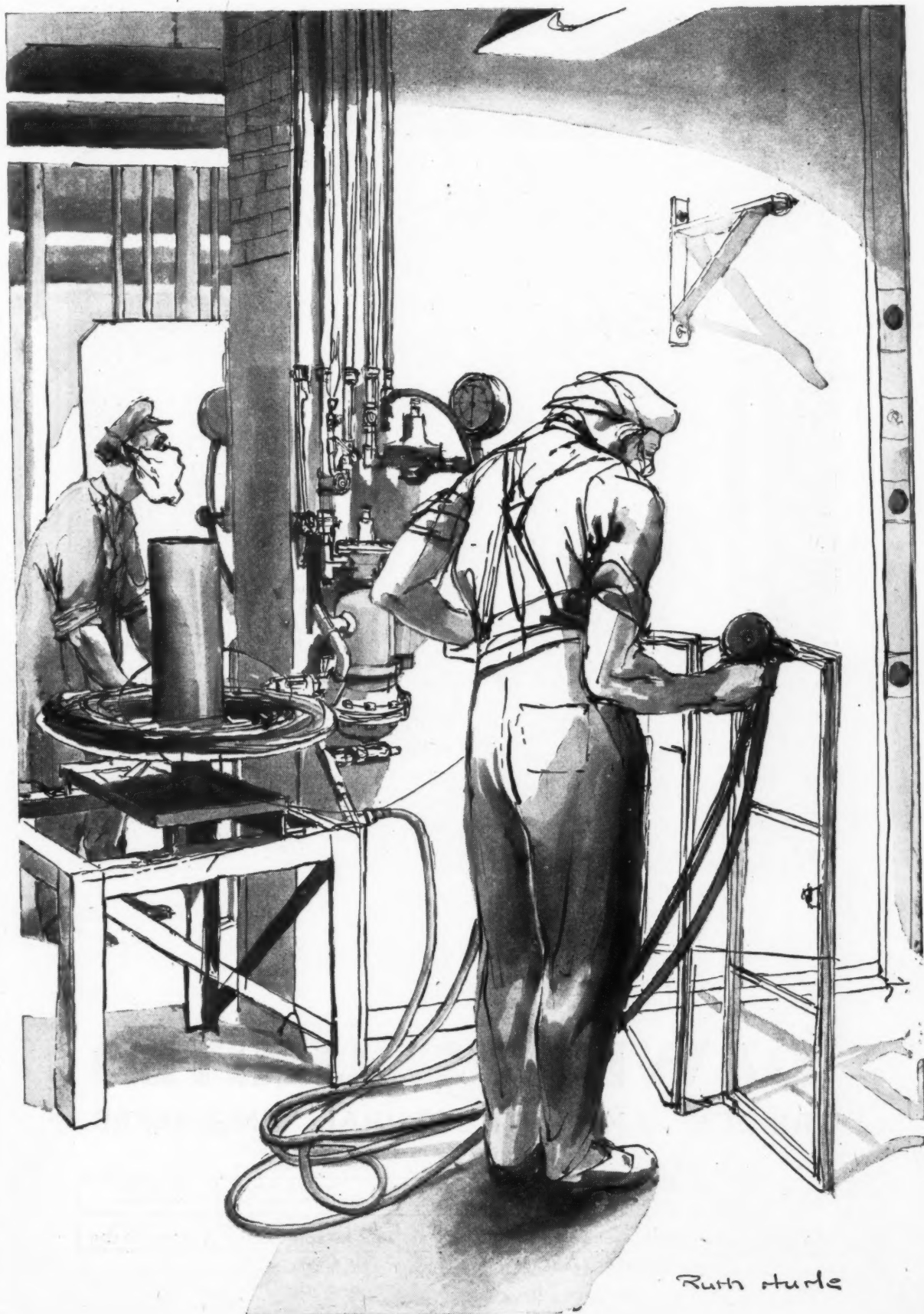
And the firm's service continues up to
the day the Architect, seeing the windows
in his building, says

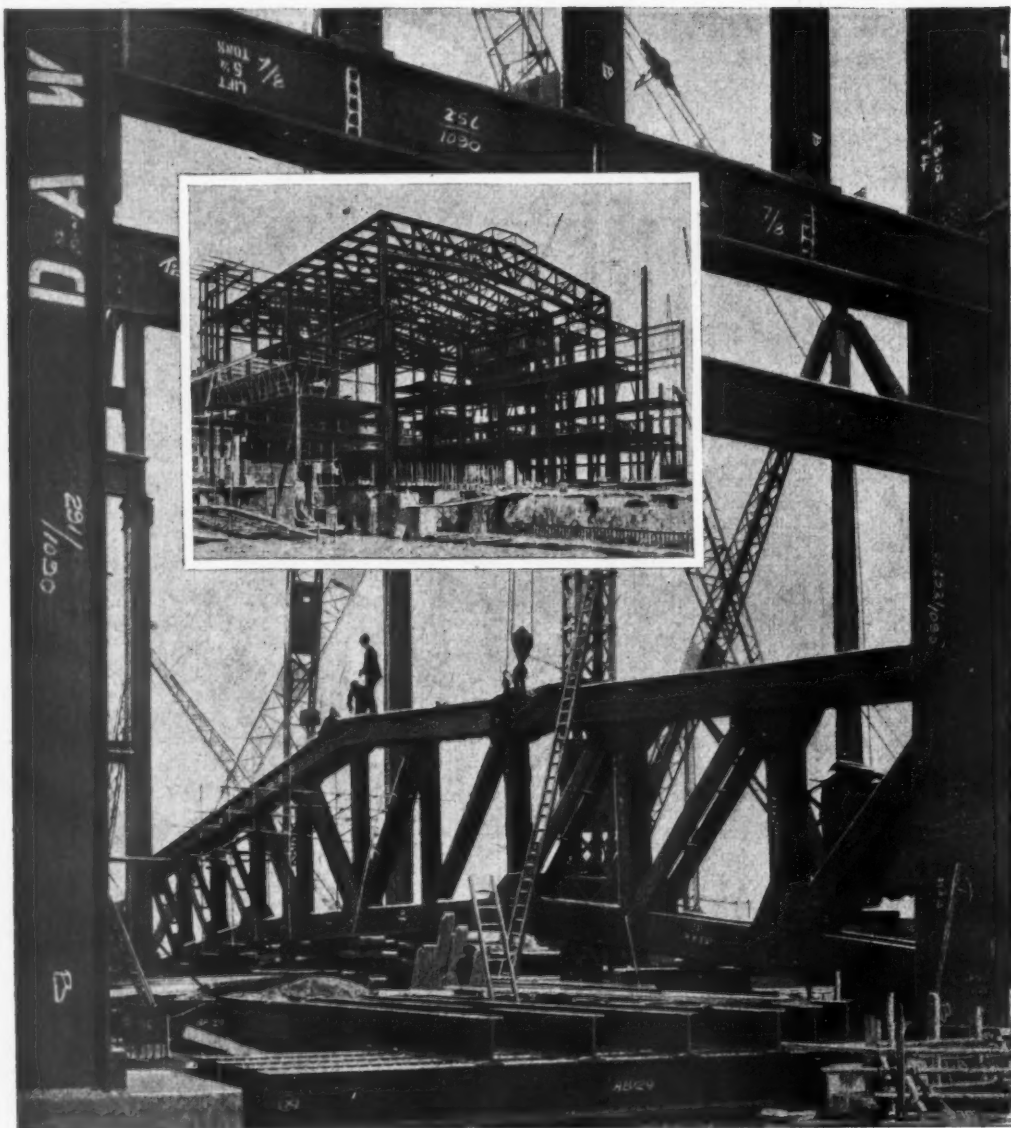
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Metal Window and Door Manufacturers

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Part of a 6,000 ton Generating Station contract for
the British Electricity Authority

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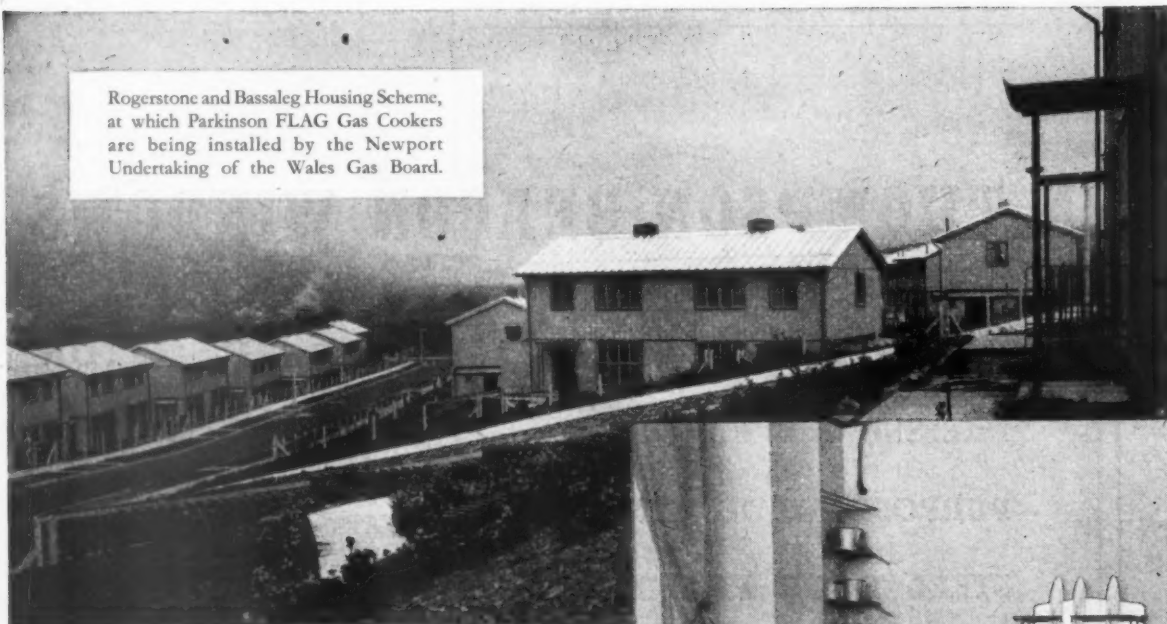
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County Architect, Essex County Council.

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Steel Houses erected by the Magor & St. Mellons U.D.C. — one of the many Housing Schemes in the United Kingdom where the Cooker specified was

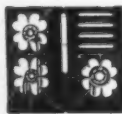
The **PARKINSON FLAG**

G A S C O O K E R

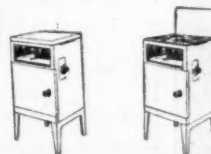
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A typical example of a modern planned Kitchen incorporating the FLAG Gas Cooker.

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THE ARCHITECTS' JOURNAL

No 2870 9 February 1950 VOL 111

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CID REPORT

Judging by its 4th Annual Report, the Council of Industrial Design has been busy. Thirty-six men are ferreting out stuff for the 1951 Festival; an M-Service (M for mock-up) now exists to aid over-worked and impecunious genius; and the photographic library contains "over 12,000 separate subjects, historical and contemporary, British and foreign"—all industrial, I trust.

I am sure the Council is right in believing that "great headway" was made during the year, but I sometimes wonder whether, in the good old days, Frank Pick and Gordon Russell didn't do more for industrial design than the whole of the CID put together. Of course, I know that Frank Pick had an easier job in that he had direct control over a number of designers. The fact that "there is still a misconception in some quarters that the Council of Industrial Design

supplies actual designs to manufacturers; its function is to supply advice on design problems," gives them a fainter, but no easier, row to hoe.

But to me this seems the trouble with the CID: their terms of reference are too narrow and too vague. Reality fades in a mist of preparing indexes and issuing weekly "Abstracts." For example, the Report tells me that "the Council . . . is concerned that nationalized industries should set an example. Certain preparatory work has been done in this direction and advice given to Government departments." The Electricity Authority and the GPO are quoted as examples. But surely the GPO has been one of the most design conscious departments since long before the birth of the CID in 1944.

How I would like to have read that as a result of the Government design debacle on British Railway Buffet Cars, an edict had been issued making it compulsory for all Government departments to consult the CID on industrial design, and threatening the CID boys with stoppage of six years' superannuation and seven days' leave if they didn't see it was done. I repeat that I do not question the statement that "great headway has been made." I believe that given the scope and opportunity, a Council which had the courage, almost in its infancy, to conceive and succeed with a show such as Britain Can Make It, could put British industrial design right on top.

NOTE FROM A LOCAL GOVERNMENT CHRONICLE

"Appointment of Surveyor, Sanitary Inspector, Waterworks Engineer and Architect. Applications are invited for the above appointment at an inclusive salary on APT Grade VIII (£685 x £25—£760), plus £15 per annum as Rodent Control Officer."

Yes, it's all one man! And he gets a house (under construction) plus a car allowance to go with the appointment. As an enthusiastic rat-catcher—alas, un-

qualified—I hankered for the job but felt dubious about the fact that "Applicants must be qualified as prescribed by article 20 of the Sanitary Inspectors (outside London) Regulations, 1935; and preference will be given to a candidate holding the testamur of the Institution of Municipal Engineers or a similar qualification. The appointment of Surveyor will be subject to the approval of the Ministry of Transport, and that of Sanitary Inspector to the approval of the Ministry of Health. The person appointed will be responsible for the layout of housing estates, design and construction of houses by contract."

The appointment must have been made by now. I am sure that Ripley would be as keen as I am to meet this Herculean figure, and to have a glimpse of his original application plus the two necessary references.

DESIGN IN A BRIAR BUSH

Some time ago I reproduced on this page three illustrations of entrances, one designed by Frank Lloyd Wright, the other by H. H. Richardson, and another, the entrance to a church at Rotterdam. (For the sake of those who missed seeing them, I reproduce the photographs again.) As a result quite a number of letters have been sent to the JOURNAL, including one from Pleydell-Bouverie of New York, who, apparently, has himself entered Wright's doorway.

He states that the implication that one arched doorway is like another is distasteful and that "castigation of creative work on the grounds of its superficial resemblance to something else is the very lowest form of architectural controversy." Well, I, like another fellow on the other side of the Atlantic, lay low and said nothing about all this at first. But now, when I see that Brer Bouverie has really lammed into the poor Editorial Tar-Baby and is stuck fast, I can't resist coming out from the bushes and asking him what he is making such a hullabaloo about. Where is the castigation, and what is distasteful?



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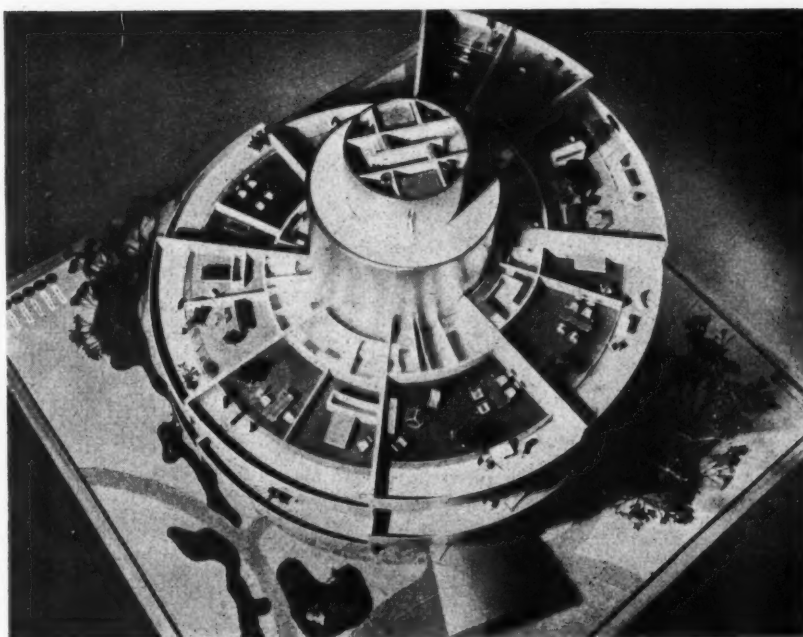
If I showed drawings of Corinthian columns by James Gibbs and Chambers, what would be the implication? Would it suggest, necessarily, castigation? No, the question is quite ridiculous. Two simple arched doorways in brick or stone are bound to be vaguely familiar in shape. As Pleydell Bouverie says, derivations can be traced to Byzantine Ravenna. Why is that absurd?

But surely, it is the detail-treatment of such ideas which is always of some interest? Why, for instance, in these three cases do the low walls project so far across the opening? I'll hazard a guess (not having seen the plans) that it's an architectural cliché as far as Wright's archway is concerned. An opening is made and then half blocked; it is just another feature from the Master for the so-called modernists to adopt.

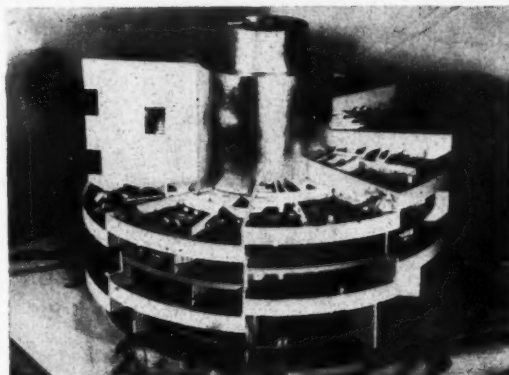
PLAN

It is very encouraging for so elderly a columnist as myself to find a clue which indicates that I am not quite so out of date as I imagine. Last week I referred to local authority housing as "scaled down middle-class villas." I have just received the latest copy of *Plan*, the journal of the Arch. SA, which now appears to have been borrowed on a long-term basis by the AA School of Architecture, and on page five I read: "Our houses are still scaled down models of eighteenth century country houses." This fascinating example of coincidental thought is a fresh lease of life to me. It puts me right into the forefront of the modern movement. Ignoring the discrepancy of two hundred years, it means, if nothing else, that I am reaching my second childhood.

This, the sixth issue of *Plan*, is an excellent student's job. The abstract cover, with an ominous suggestion in the design of two portly bodies about to collide, sets the key to the whole production. The text pages are divided horizontally into three sections (apparently in the hope that one has three pairs of eyes), and the directions which appear, needless to say, at the back, state that the magazine can be read in the normal way, or horizontally from page to page. The latter method appears the simpler and has the added advantage of making the magazine seem three times as long. To further stimulate the eye three different types sizes are used in conjunction, making it as peculiar to read as—well, never mind.

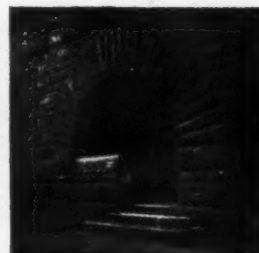


This spiral apartment house was designed by I. M. Pei, former assistant professor of architecture, at Harvard University. Plans were prepared by Webb and Knapp of New York. Space is rented by the square foot.

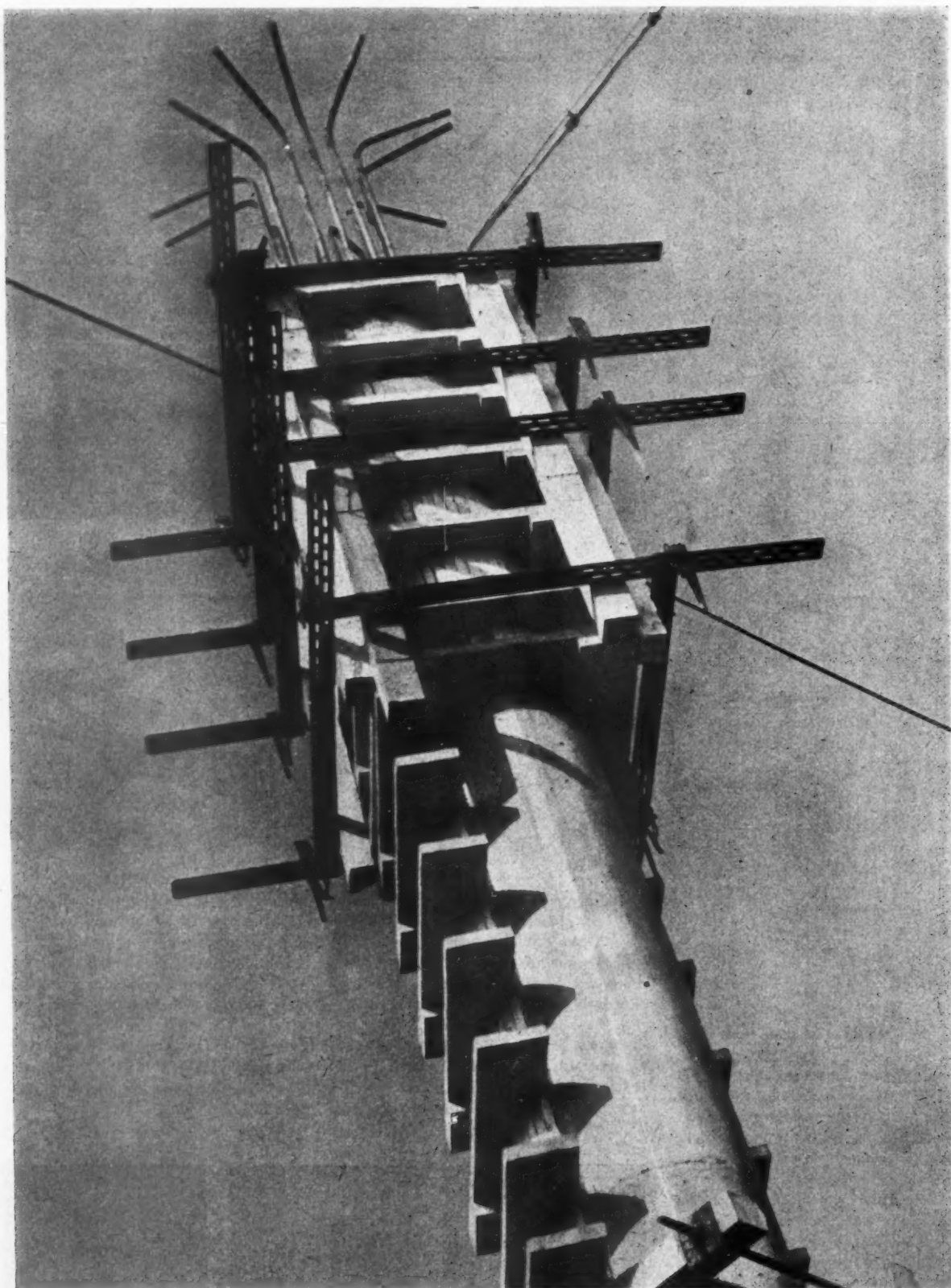


With regard to the subject matter, that is a very different kettle of fish. It really should be read by all who profess any interest in the younger generation of architects. It is in two parts, the first, obviously enough, deals with the present-day breakdown in the fields of building architecture and education (those who see no cause for worry on this score today can save themselves 2s. 6d.). The second half gives the authors' plans for

putting this triple Humpty-Dumpty together again. It is too long to attempt to describe here, but to summarize, so far as architecture is concerned, these students see a future only in a process of integration; a much closer relationship with builders and manufacturers; and group working. A crude form of their ideal is seen by them in the school section of the Hertfordshire Architects' Department.



Left, shop entrance by Frank Lloyd Wright; centre, entrance to a church at Rotterdam; right, entrance to a house by H. H. Richardson. (See Astragal's note).



Growth of a Concert Hall

The new concert hall being built on the south bank of the Thames is the first of its kind to be erected in this country for over a decade. The JOURNAL has therefore asked two architects, J. Eastwick-Field and John Stillman, to describe in a series of articles, of which the first appears

on page 189, how a job of this magnitude is tackled today and the new ideas and techniques which are embodied in this building. The photograph reproduced above, which was taken by P. M. Gibbs, shows one of the concrete columns in course of erection.

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WAITING ROOM



"Inventory's the same as 1940—One Table, One Chair, One Town Planning Applicant".

Here is a worthy successor to the pre-war *Focus*. I look forward to seeing implementation of their ideals by these authors.

BETTER LITERATURE WANTED

I understand that there is a letter in this week's correspondence columns from an architect who complains about the variation in sizes of trade publicity handouts. Most architects will sympathize with him, but what can be done to persuade manufacturers that it would be to their own advantage to conform to a standard size in their literature? It is up to somebody to point out to these gentlemen that if their pamphlets cannot be accommodated in a filing system they will be left lying about in offices until they become so dirty and torn that they are thrown away, irrespective of their value.

The American Institute of Architects are making an intelligent approach to this problem. They have instituted a Building Products Literature Competition, in collaboration with the Producers' Council, with the intention of acknowledging excellence in product literature and helping manufacturers to increase the effectiveness of their advertising material. The assessors will state the reasons for their selection, and, in addition, a rating scale will be prepared and published as a guide to the preparation of better literature. The RIBA would be doing a great service to architects if it followed this example.

ASTRAGAL

The Editors

MANPOWER AND METHODS

THE experiences of this country in world affairs during the past five years have pointed with unwavering insistence to the primary importance of making the most of our most valuable asset—manpower. It is not surprising, therefore, that the Chancellor of the Exchequer saw the need a year or so ago to appoint the Local Government Manpower Committee "to review and co-ordinate the existing arrangements for ensuring economy in the use of manpower by local authorities and by those Government Departments which are concerned with Local Government matters."

The Committee, which has now published its first report, has made a start on its task by considering the scope for reducing the supervision exercised by government departments on local authorities. This, if the recommendations and comments in the Report are any criterion, has proved a profitable field of investigation, though precisely how profitable cannot be estimated until the Committee has made inquiries—a task it intends to undertake.

Few architects will quarrel with the recommendations relating to the new procedure for house building, which state that approval of individual building sites by the Ministry of Health will be dispensed with and that the procedure for obtaining approval of layout schemes will be simplified and prior submission of house plans will be dispensed with if they are prepared by, and will be carried out under, the advice of a qualified architect. Such revision of procedure is long overdue, for it is difficult to imagine a more deplorable waste of time than that involved in scrutinizing work prepared by a qualified architect with a perfectly good Housing Manual at his elbow to guide him.

Local planning authorities, it is also recommended, will not, for an experimental period, be asked to obtain planning permission for development to be carried out by them in their own areas.

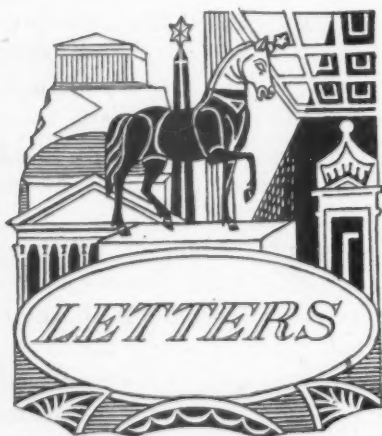
Results of the Committee's consideration of the other part of its terms of reference—methods of procedure and organization for handling the various services at the local authority end—will now be awaited with interest.

REDUCING RENTS

PEP's publication on the economics of the council house, mentioned in last week's JOURNAL and the subject of an article by Ian Bowen on page 201 of this issue, contains a section on the reduction of rents which is of some significance to architects. The proposal is made, and it is one which the JOURNAL has advocated recently, that the building of three-bedroom houses considerably larger than the 900 sq. ft. minimum laid down by the MOH is a mistake. At present the sizes predominate in the 950 to 1,050 sq. ft. group. As the PEP broadsheet states: "The extra space may be not

only an unwanted expense (in higher rents) but a burden on their furnishing capacity. Parlours are sometimes left unused because families cannot afford high rents and extra hire purchase to furnish these rooms." The houses considered in PEP's report were traditional types with, therefore, all their technical faults. It is thus a poor comment on the ability of the whole building industry when planners start suggesting that the only method of economizing in house construction lies in reducing the size without any attempt to increase the "livable" quality of the house. PEP quotes the Girdwood committee's suggestion that £125 per house might be saved by extra productivity, and that any further savings could only be obtained by reducing standards of space, equipment or estate amenities.

While savings could be made on the widths of roads to the vast improvement of housing estates, and by relating house sizes more closely to the sizes of families, the proposal to reduce barely-attained standards is a hopeless policy. If we have reached the end to economy in our present methods of house building, it is time an entirely fresh approach was made to the problem. The ultimate aim is merely a comfortable, well-equipped house for which the rent is well within the reach of the tenant. Not an impossible task, surely, for wide-awake industry?



Street Lighting

SIR.—The grumbles of your correspondent, Mr. Harold Falkner, about inadequate lighting in side streets is not without justification, but he attributes the blame unfairly. There has been considerable developments in recent years, in spite of four years of black-out and as many more years of reduced power supply, but the new developments take time to come into general use.

The reason is partly economic, because the ratepayers' money is used for so many other things, and partly a matter of official policy which was recorded in the MOT 1937 report recommending side-street (Class B) lighting equivalent to a 100-watt lamp every 30 yards. This is the basis of the purchasing specifications to which the vendors of the lanterns must conform. The efficiency of most street lighting apparatus is high, and, speaking generally, 75-90 per cent. of the

J. G. Holmes

R. C. Fisher, Chairman L.C.C. Branch, ABT.

C. Worthington, A.R.I.B.A., A.I.Struct.E.

"An Architect"

"A Schoolmistress"

available light is directed downwards in useful directions.

Mr. Falkner's naïve suggestion of floodlighting scarcely bears examination. If he means a "flood of light," as in Piccadilly Circus, there is not enough gas or electricity in the country or enough money in the Borough Treasurer's coffers. If he means to use floodlights, such as are used on notable buildings or on sports arenas, the geometry of the problem is against him. A floodlit building may look very nice from a distance but the glare is most distressing to anyone on a balcony or looking through a window of the building itself. In the same way, a floodlit road may look very clear from an aeroplane, but the floodlights themselves would be most distressing to road users. As an obvious example, consider the glare and danger at a cross-roads with plenty

of car headlights going both ways, and remember that a car headlight is a particularly efficient form of floodlight, specially adapted for lighting roads.

But let us not be too destructive in our criticism. If the lamps on side streets were at half the spacing and twice the height, the results would be greatly improved, though at increased cost. If the road surface was light in colour and matt rather than glossy black, the seeing conditions would be much easier. One of the fundamental difficulties is that a wet tarred surface is as black as night itself.

J. G. HOLMES.

London.

LCC Reorganization

SIR.—While giving ASTRAGAL credit for wishing to see the architectural standard of LCC housing raised, members of the LCC Staff Branch of the ABT resent his apparent indifference to the architectural future of a body of members of his own profession.

We feel that, in this reorganization, reversing an original transfer which should never have been made and against which the staff concerned protested at the time—but in vain it is the duty of our organization, as of all loyal fellow architects, to see that the basic professional interests of the staff concerned are safeguarded.

It is unfortunate that ASTRAGAL should choose a moment when consideration is being given to the future of this staff, publicly to create prejudice against a proportion of them.

He is right in saying that official architects should welcome architectural criticism of their work in the press. It is, however, an essential condition of their doing so that they should be granted by whatever authority they work for full rights of reply, and that this should be understood by all concerned. The ABT believes both in the granting and in the exercise of such rights.

R. C. FISHER,

Chairman,
LCC Branch, Association of
Building Technicians.

London.

ASTRAGAL comments: "As I made clear in my note, I felt it necessary to refer to this matter again because of the threat to freedom of criticism implied in the document circulated among the LCC housing staff. I agree that professional interests should be safeguarded if possible, but not at the expense of good architecture."

Prestressed Concrete

SIR.—Prestressed concrete is in the air, it is "le dernier cri"—like the New Look in the world of feminine fashion. I attend numerous lectures and voraciously read all available literature in a desperate effort to keep myself at least knowledgeable on this apparent revolutionary form of building construction. Alas, I find that although this introduction of prestressing has some vague contribution to further steel economy its application to normal present-day building construction is strictly limited. Indeed, in a paper recently read before a meeting of the Institution of Structural Engineers on the subject of Steel Economy, L. R. Creasy stated: "In assessing the value of prestressed concrete work as applied to general building construction it must be remembered that the proportions of a structure designed in this medium will approximate to one constructed in English oak, so that it must be expected that such structures, by normal standards, will be vastly heavy and ugly in appearance."

I am aware of treading on the tender corns of some of my colleagues, but I can no longer quietly tolerate this glamour surrounding prestressed concrete.

C. WORTHINGTON.

Maidstone.

Inadequate Publicity

SIR,—Not so long ago ASTRAGAL wrote that architects are critical about the kind of advertisements they find in the technical journals. I am sure they are still more critical about the varied shapes and sizes of the publicity matter which is poured into the office, and very often into the waste-paper basket.

It does not seem to be appreciated that very often the documents concerning any particular work are gathered in offices into a quarto or foolscap folder, usually the latter, and that it would be a great advantage if any publicity matter was capable of being filed in one or other of these sizes and kept for one particular job or series.

I am sure you will agree that if the subject matter is not of sufficient interest no architect will retain the publications solely on account of their beauty. Some form of standardization would be an economy, and you might do something both for your advertisers and for your readers by sponsoring some sort of get-together in this.

AN ARCHITECT.

Newcastle-on-Tyne.

Reprimand from a Schoolmistress

SIR,—Once upon a time I was an architect's secretary and so I know that they are human, and some are almost sane. Yet since working in two modern (presumably carefully designed) schools, I am beginning to wonder. Both these schools are, I gather, the pride of the county, and were built after terrific thought. Indeed they are fine, in parts; so fine that it seems more than odd to discover some fantastic defects.

Defect number one, in the latest school, is that for a considerable part of the day teachers and children are deafened by the passing of jet-planes. The workmen nodded, as they finished their hammering, saying, "Ar... we knew it'd be like this. Wrong place to put it, see? Just in line with the airfield, see? They always takes off this way, into the wind." Fair enough, for we are practically due west of the air-force station and off they roar at regular intervals. Music and movement pause as they go by; stories and hymns fade into nothingness, while the fussy ones put their small paws over their ears. We all smile and nod at each other, meaning that we'll repeat the last, drowned, sentence when peace returns. We are getting used to it, but it does waste time and one feels it must waste energy too, merely trying to ignore the noise.

Defect number two may be a small one, but it is tiresome. It is the question of doormats. There is a beautiful fine, sunken mat at the front door—the door used for visitors and such gentry. There are two nice sunken mats at two other doors which are designed to open into corridors when the extension is built (at the moment they open on to ploughed fields and are unusable). But there are no doormats, nor holes for them, at the doors where the children are intended to enter. You can't put the other doormats by these doors either (a) because they're too big, and (b) because there are no wells and the doors wouldn't open. Thus it means, on muddy days, muddy corridors, or the stationing of a hard-pressed teacher (who ought to be in at least two other places at

EXHIBITION OF AA MEMBERS' PHOTOGRAPHS



This year's exhibition of members' photographs at the Architectural Association contains a wide choice of subjects. Above, Totnes, by Hugh P. Crallan and left, Montreux, by Malcolm Mitchell.

that time) by a displaced mat to see the children wipe their feet on it instead of breaking their necks over it.

Defect number three (which should really be given the honour of coming earlier) is the placing of the lavatory accommodation. In one school modesty prevailed and the boys' wc's and the girls' wc's were planned to be as far apart as possible. As the oldest child in the school was seven it seemed a bit excessive. What it meant, in practice, was that the teacher in charge of the youngest class (fives and some under) spent much of her time sprinting up and down the corridor trying to supervise about twenty small boys struggling with buttons at one end and twenty small girls having a wonderful plug-pulling time at the other. The next school showed commendable good sense in placing the lavatories quite close together, but with solid walls between and separate entrances. This makes life much simpler, but for some unknown reason the school is planned so that the elder children's classroom is nearest the cloakroom accommodation, and the youngest the farthest away. Now, sooner or later, the luckless "infant" teacher will have to leave her class and dash to see how some

small child is faring... for even State-regulated children are sick or have diarrhoea on occasions. A distant cloakroom is awkward, to say the least of it, for the victim and for the rest of the class left behind to fight things out in their own sweet way.

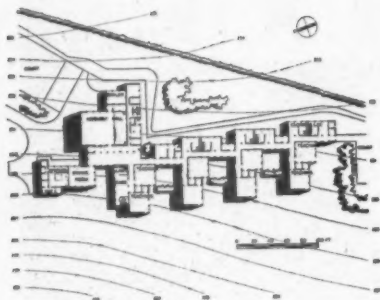
The final plea, for the future, concerns porches or a little shelter from the rain. One school did have fairly adequate porches to each entrance door, so that, by dint of considerable squashing, most of the children could shelter before the doors opened. The next school had no shelter whatever. Although school has an opening time, and teachers generally get there from fifteen to twenty minutes before this, children have been known to appear even earlier. So somewhere to shelter from the rain is essential. A big, long verandah type porch would be ideal, and make outdoor play possible, in relays, when the weather is showery.

It may be pleaded that all these objections are connected with money, and that we must economize. In which case, I suggest we economize in a different direction—and that, anyway, doesn't excuse the 'planes.

A SCHOOLMISTRESS.

Sussex.

STUDENTS' MURALS AT BUSHEY SCHOOL



A move to bring together the architect and the artist was made recently by the Hertfordshire Architects' Department when they arranged with the principal of the LCC Central School of Art, William Johnstone, for students to prepare cartoons for murals, and subsequently to carry out the painting on the school walls. Three designs were chosen by the architects from the six full-size cartoons prepared. They are to be placed at the ends of corridors in the Highwood Junior Mixed and Infant School, Bushey. The long corridor running through the school has been divided into three by staggering the plan (see plan

above), and three colour schemes have been used to differentiate one section from another. Out of the one-third of 1 per cent. allotted for sculpture, paintings and murals by the Hertfordshire County Council the sum of £1 per sq. ft. has been agreed upon for these murals. The design above is by Mary Harper. Below, left, is the mural by Robert Addington and below, right, is that by Celia Bloom. These designers will carry out the work at Bushey. They will be assisted by those responsible for the three unsuccessful cartoons.



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RIBA

Danish Architecture Exhibition

The exhibition of Danish architecture of today, which will be on view at the RIBA from Tuesday, February 28, to Wednesday, March 29, has now arrived in London. The exhibition will be divided into seven sections and covers town planning, housing, civic centres, and churches, schools, recreation and sports buildings, factories and commercial buildings. While some of the buildings to be exhibited were built before the war, it will be found that quite a large number were either completed during the war period or have been built in the five years since the war. This exhibition will therefore be of particular interest to those who have not had an opportunity of visiting Denmark in recent years.

The exhibition will also include a few specially selected examples of furniture, textiles, ceramics, books, glass and other examples of good industrial design. These are, in most cases, likely to be articles designed more recently than at the time of the exhibition of Danish domestic design which was held at the RIBA in 1947. While it has not been possible to import constructional materials from Denmark, as was done in the case of Switzerland for the Swiss Exhibition, all the light fittings used in the exhibition will be of Danish manufacture.

The three Danish architects primarily responsible for the organization of the exhibition are Finn Juhl, Ole Hagen, and Esbjørn Hjørnt, and it is hoped that all three will be present at the time of the exhibition. It is also expected that Mr. Langkilde, president of the Akademisk Arkitektforening, will be here for the opening ceremony, which will be performed by the Danish Ambassador. Mr. Finn Juhl has prepared the layout of the exhibition for the Henry Florence Hall.

CID

European and British Design

Speaking of the exhibits shown at the exhibition of European Lighting Fittings, organized by the Scottish Committee of the CID at the showroom of Wylie and Lochhead Ltd., Glasgow, Professor R. Gordon Brown remarked that they all bore the stamp of a definite school of thought, for in their countries of origin there was, in fact, a school of thought about the design of interiors

which was of inestimable value to a man who had to design something as abstract as a lighting fitting.

Professor Brown, who was speaking at the opening of this exhibition on January 24, went on to discuss those things that were common to European and British designers. The Danes might have a lesson for us, he said, in their early adoption of the Windsor chair as one of the main elements of their modern interiors. This may have been luck or a stroke of genius, but whatever it was it had a great effect. The Windsor chair was something which was classless, which we had all known and liked. Even today when contemporary design was more or less taken for granted in Denmark, one saw few interiors which did not contain one of these old friends. They still formed a bridge across which the simplest people felt able to enter the new fields of design.

The good Danish designers often described things they liked as "cosy"; to use such a

For a decade the paper of the JOURNAL has been rationed. For a decade would-be readers have formed another queue—on paper, we are glad to say—waiting for the death or defection that would enable them to step into some other man's subscription. It has been a very long queue, running into thousands of architects, whom we, only with the greatest reluctance, turned away. Temporarily anyway, those days are over. In March paper becomes unrationed, and anyone who so desires may subscribe to the JOURNAL, and we, the publishers, may accept their subscription. To make sure that you don't get caught again, will you send in your name at once, before a new government decides that paper must be rationed again. Please act now and enable us to get you on our lists before anything happens to stop it. (Annual post free subscription £1 15s. 0d.)

THE PUBLISHERS.

word in Britain would almost certainly mean suicide. We had lost the common touch, and because of that designers were in danger of losing their usefulness.

Although our designers were aware of and sympathetic to the new trends, the public saw little evidence of them and public taste based on experience became widely separated from that of our best designers.

If public interest could not be retained it would not be possible to have any great new movement in design. All great art movements required three things—talent, opportunity and a lively and critical public. To ensure the last of these the designer needed to look backwards as well as forwards and to find a bridge which was as classless and as effective as the Windsor chair.

There was another type of common denominator, and that was found in science. It

was often implied that science and art were opposed, but it seemed that in its new discoveries and in the new problems which it posed, science often gave the artist his greatest opportunities and his greatest justification for existence in the eyes of the ordinary man. In addition, science, rather than art, had been responsible for the evolution of many new forms and their acceptance by us all, as everyday things. Their effect could be seen at the exhibition. Many of these fittings belonged to a school of thought and a philosophy which was more closely allied to aircraft like the Comet, than to the hand-made chair.

But there must always be a more intimate contribution to a school of design. A scientific fact discovered in Rio tomorrow would be as relevant here as there. The same could not be said about a solution to some problem of domestic planning. The man in Rio and the man in Glasgow did not recognize the same rules in this aspect of their lives and so there must always be a regional factor in good design.

In Scotland there would seem to be a lively enough feeling about national matters to ensure that his aspect of the problem was not neglected. Nevertheless, people were being imported from outside to replan the capital city, in the same week that Scotland exported a young man to take charge of the planning and the architectural development of London. That must stop. It was a denial of one of the fundamentals of any new movement, namely opportunity. It was in everyone's interest that Scottish designers should be given their chance—in Scotland.

MOTCP

War Damage Grants

Details have been published of schemes for financial assistance to local authorities in carrying out proposals approved by the MOTCP for the reconstruction of areas extensively damaged during the war and areas of bad or obsolete layout. The details are contained in a memorandum issued by the Ministry, which sets out the conditions for the payment of the necessary grants. It is entitled "The Town and Country Planning (Grants) Regulations, 1950, Explanatory Memorandum," and is published by HMSO, price 6d.

The memorandum states that during the first years after a reconstruction scheme has been started, when there is unlikely to be any substantial revenue to the local authority from land which is being cleared, the rate of grant will be exceptionally high. For areas of war damage the grant rate will be 90 per cent. of the annual expenditure incurred by the local authority for the first five or, in exceptional cases, eight years. For other areas the rate for the first five or eight years will vary from 50 to 80 per cent., according to the general financial position of the local authority concerned.

After the first five or eight years there will be lower rates of grant. For war-damaged areas this lower rate will be 50 per cent., and there will again be variable rates for other areas. The loans raised by local authorities will be repayable over 60 years, and the grants will continue for the whole of that period.

The memorandum also contains details of a scheme of grants for assisting local authorities which incur other expenditure in their general exercise of planning control. This expenditure may, for example, take the form of payment of compensation for revocation of planning permission, or the cost of acquiring and clearing land outside the main reconstruction areas. The rates of grants for such expenditure will range from 20 to 50 per cent.

Details of grants available for certain planning actions taken under the Acts of

TEN-STOREY FLATS FOR HARLOW NEW TOWN



A ten-storey flat block at Harlow New Town by Frederick Gibberd, on which building construction started last week. The building forms one composition with nine large trees and a three-storey flat block, and

is, itself, the pivot of a housing layout of mixed dwelling types. The plan is a butterfly shape arranged so that each living room and its balcony has a south aspect and a view over open landscape.

1932 and 1943 are also set out. These provisions give effect to promises made in Parliament when the Act of 1943 was passed.

LCC

Educational Programme

In view of economies required by the Minister of Education, the education committee of the LCC is to submit a revised programme relating to primary and secondary schools which will cost £3,164,200. The programme includes the provision of 22 county primary schools (11,240 places); 3 voluntary primary schools (640 places); Woodberry Down comprehensive high school; and 2 voluntary secondary schools (700 places). The Minister is to be asked to allocate, in addition, £600,000 for war damage repairs in 1950.

Other points taken up with the Ministry of Education are the need for agreeing to a higher cost a place for comprehensive high schools, since these provide advanced technical and academic courses, and the situation which will arise through the impossibility of providing enough school places to meet estimated requirements caused by the abnormal increase in the birth-rate in London, if the suggested limits are imposed in 1950 and in subsequent years.

MOH

Housing Return for 1949

During December, 17,436 permanent houses were finished in Britain, compared with 16,492 in November, making the total for the year 197,627. Since 1945, 623,347 permanent and 157,146 temporary houses have been built. The Ministry of Health states that by all the various means—new building, repairs, conversion, and requisitioning—the number of families rehoused under the post-war programme is 1,078,424.

Between May 1, 1945, and the end of last year, 32,516 flats and houses of less than 12 rooms were released by the Services and Government departments. Some of the released dwellings were taken over by local authorities. Over the same period, the net total of requisitioned houses used as dwellings was 24,023, having declined by 838 from the net total on September 30, 1949.

ESSEX

CC Engages Private Architects

To assist the County Architect (Mr. H. Conolly) Essex County Council have agreed to engage the following firms of private architects to design new school and other buildings appearing in the 1950 programme, which is estimated to cost over £2M:—George Fairweather & R. Furneaux Jordan; A. R. Dannatt & Son (Chelmsford); J. E. K. Harrison (Westwood, Sons and Harrison); Hiscock & Duncan Scott (Guildford); Johns & Slater (Ipswich); Gerald Lacoste; Hubert & Martin Lidbetter; Gerald Shenstone & Partners; J. M. Sheppard & Partners; Richard Sheppard & Partners; J. Moore Simpson; Tooley & Foster (Buckhurst Hill).

PROFESSOR GIEDION

New Appointment in America

Professor S. Giedion is the first holder of a newly-founded chair at the Massachusetts Institute of Technology. He is in residence during the present term and is giving a series of lectures on "The Role of Art in Contemporary Life."

CWMBRAN

New Town—new member

Mrs. Walter Birmingham, 251, Bute Road, Cardiff, has been appointed an additional member of Cwmbran Development Corporation by the MOTCP. She is a corporate member of the Institute of Labour Management and has been personnel assistant to Rowntree & Co. Ltd., staff officer to John Lewis & Co. Ltd., HM Inspector of Factories, labour officer to the Anglo-Iranian Oil Co., and tutor in social science at University College, Cardiff.

BC

Progress in Scotland

The number of technical enquiries made at the Scottish Building Centre during the past year increased by over 30 per cent. to 8,100, while the number of visitors to the Centre showed an increase of approximately 20 per cent. at 28,000.

HURSTMONCEUX

Architect for Observatory

Brian O'Rourke, consulting architect in the Civil Engineer-in-Chief's Department of the Admiralty, at Pinner, was recently appointed to take charge of work involved in the transference of the observatory from Greenwich to Hurstmonceux. He will be responsible for groups of buildings to house the large telescopes, with laboratories and offices beneath them, and for additional buildings to house the Time Department and the Nautical Almanack Office. Eventually there will be a building to house the new Isaac Newton telescope and a workshop block. Mr. O'Rourke will also advise on the layout of all the grounds.

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DIARY

The Dimming of Fluorescent Lamps and its application to the Theatre. J. W. Strange. At 2, Savoy Hill, W.C.2. (Sponsor IES.) 6 p.m. FEB. 14

The Planning of Harlow New Town. Frederick Gibberd. At 13, Suffolk Street, S.W.1. (Sponsor, HC.) 6 p.m. FEB. 14

Developments in Timber Structure. R. T. Walters. At 66, Portland Place, W.1. (Sponsor, Architectural Science Board, RIBA.) 6 p.m. FEB. 14

Colour and Texture in Concrete Surfaces. J. G. Wilson. At 11, Upper Belgrave Street, S.W.1. (Sponsor, RCA.) 6 p.m. FEB. 15

Exhibition of Work by Lethaby, Webb and Morris. 66, Portland Place, W.1. (Sponsor, RIBA.) Thursday, Friday, Monday and Tuesday, 10 a.m. to 7 p.m. Saturday, 10 a.m. to 5 p.m. FEB. 16-21

Exhibition of Modern Building Practice. The Municipal School of Art, All Saints, Manchester. (Sponsor, MOW.) 10 a.m. to 5.30 p.m. (10 a.m. to 12 noon on Saturdays). UNTIL FEB. 18



Below is the second of a series of fortnightly articles which will cover all those aspects of legislation, parliamentary news and statutory rules and regulations which are of special significance to the architectural profession.

ERNEST WATKINS

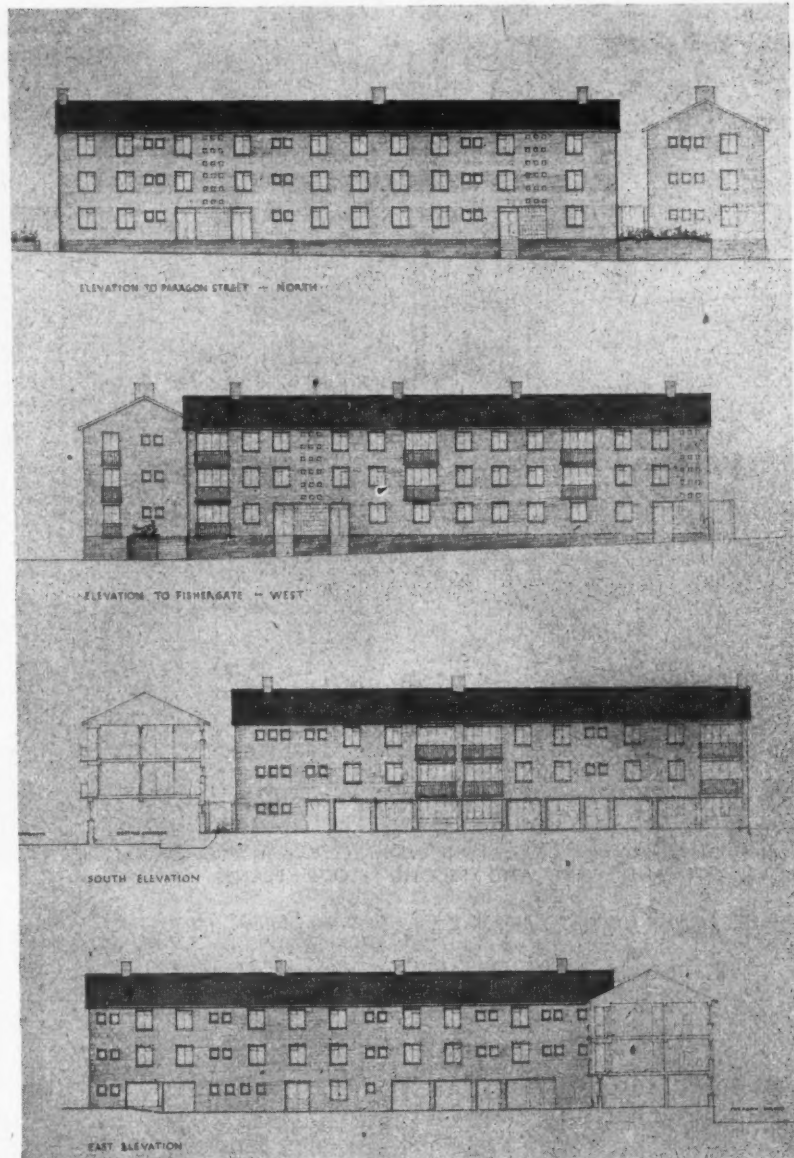
The Architect and Current Affairs

DESPITE the election (and, after all, why not?) the flood of Government and kindred publications continues and the observer can do no more than fish from the stream a few of those that catch his eye. There is, for instance, the first report of the British Electricity Authority, a massive work of over 300 pages, accompanied by fourteen offspring in the shape of area reports. The Authority devotes half a page to amenities, to use a general term. After announcing that it had decided, during its first year of existence, to appoint an advisory panel of eminent architects, it continues: "Design should be based on clear functional expression, both in respect of the uses for which the various elements in the structure are intended and also in respect of the forms of construction."

Am I being too suspicious if I detect in these smooth sentences not very much more

(Continued on page 186)

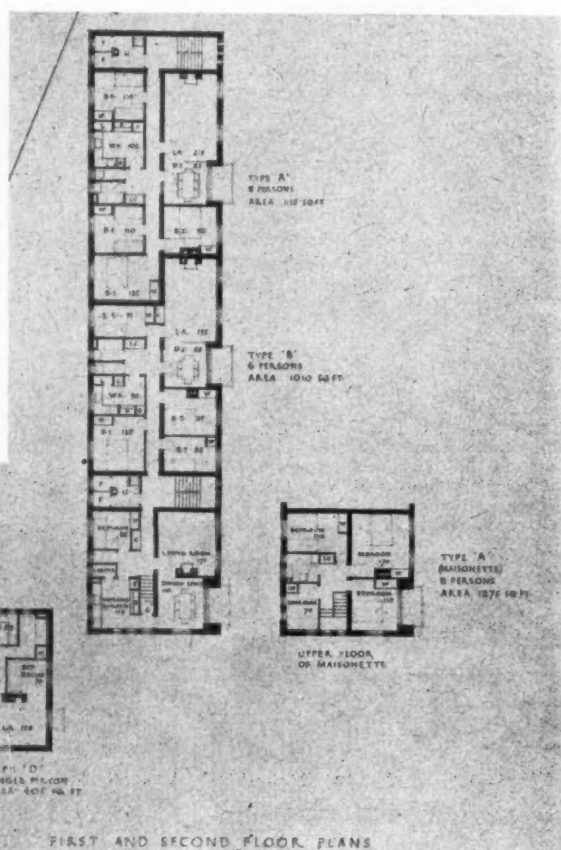
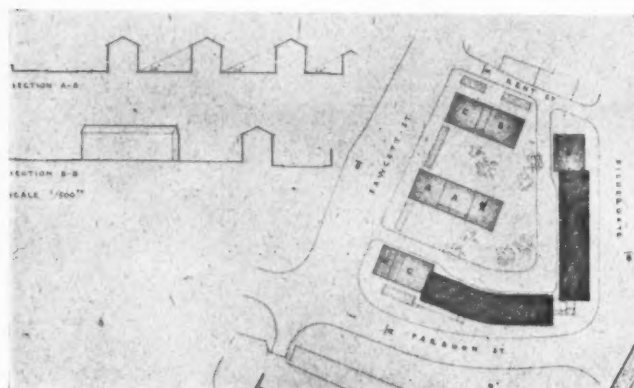
FIRST PRIZE: YORK FLATS COMPETITION



The elevations above and the plans overleaf are the work of Messrs. Toplis and Meadows, winners of the first premium of £250 in the competition for a block of flats to be erected in Paragon Street, York, in connection with the York Festival, 1951. Plans and elevations of the second prizewinning design, by Herbert Thearle, are shown on page 185. Following are extracts from the first prizewinners' report:—The front entrances to all blocks are kept clear of services and are for tenant access only. Each pair of flats is provided with a common utility room containing a common hoist for raising fuel and stores from ground level, a common rubbish chute and separate fuel stores for each flat. Cycle and pram stores are at the rear of the blocks, and communal laundry, heating chamber and workshops are placed at the southern end of the site. Working kitchens are provided in all dwellings and each family dwelling has a dining recess adjoining the living room. In the six person dwellings, two double bedrooms and two single are provided. Three double bedrooms and two single are provided in the maisonette for eight persons.

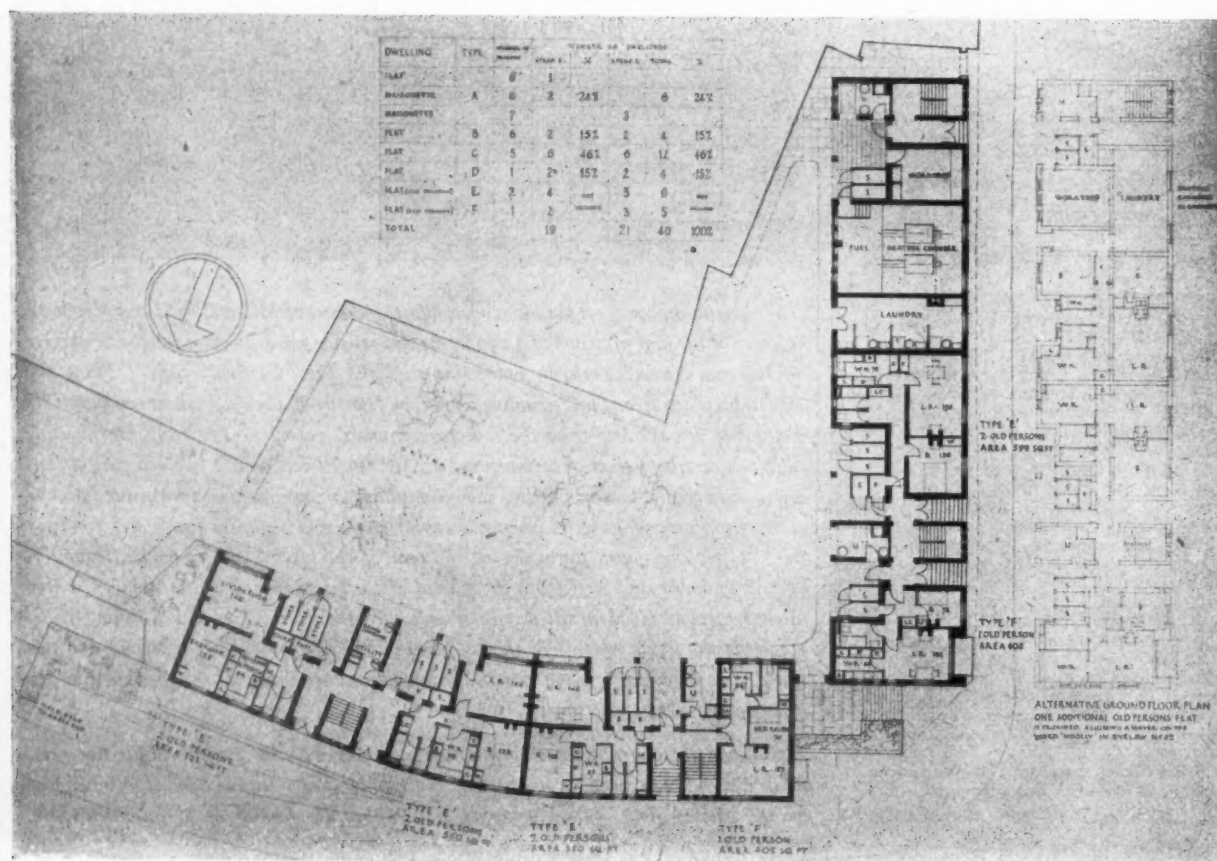
The blocks are of traditional construction with load bearing walls. Walls are 9-in. brick externally, with 4-in. lightweight concrete blocks keyed and bonded to inner face on the ground floor. On the upper storeys they are formed of 4½-in. brick, 2-in.

FIRST PRIZE : FLATS COMPETITION FOR YORK FESTIVAL, 1951



ABOVE, SITE AND FIRST AND SECOND FLOOR PLANS.

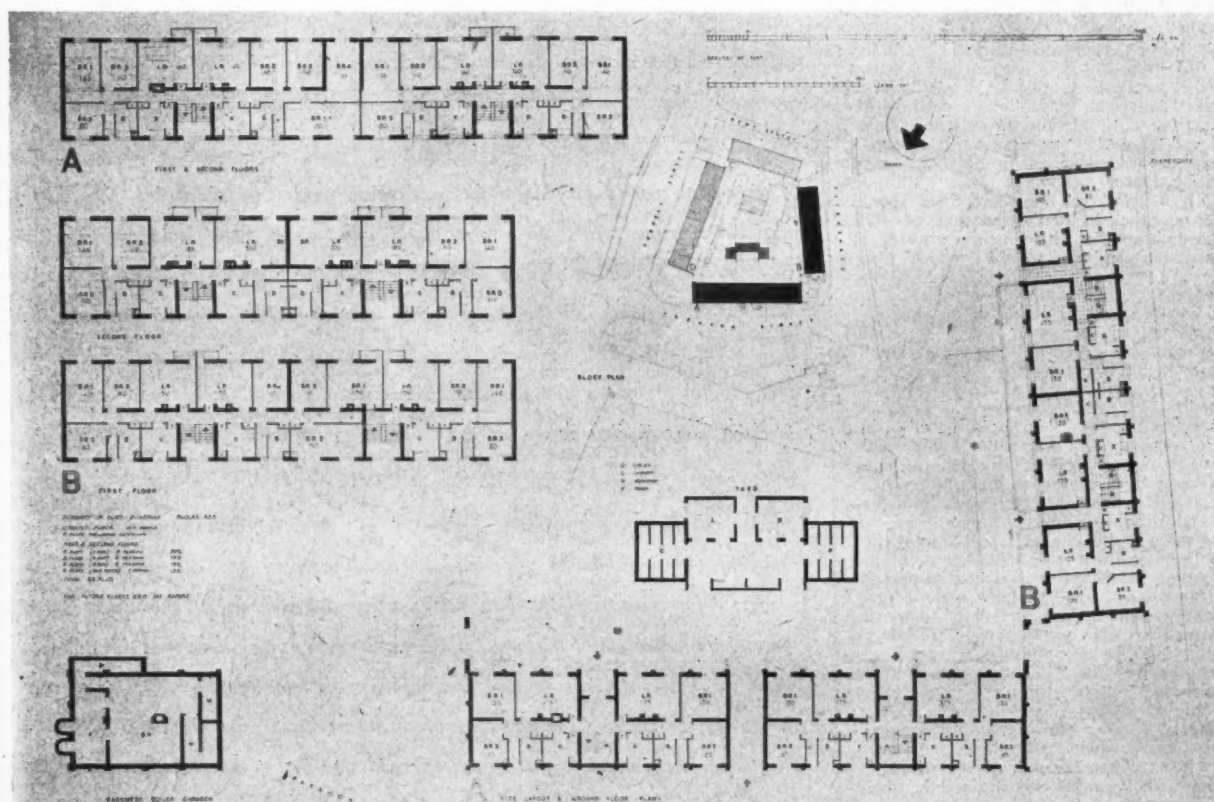
BELOW, GROUND FLOOR PLAN.





cavity and 4-in. lightweight concrete blocks. The ground floor is of "no fines" concrete and the upper floors are reinforced concrete. Roofing material is laid on closely spaced steel purlins carried on light steel trusses and party walls. Internal partitions are formed of wood-wool slabs, lightweight concrete blocks or hollow-tile blocks. Walls generally are plastered and floor finishes are wood block or wood-strip to living room and bedrooms, and quarry tiles or composition floor to kitchen and bathrooms.

SITE AND FLOOR PLANS



(Continued from page 183)

than a polite bow to a rather distant acquaintance? The BEA is young enough to have a clean sheet over the construction of generating stations and their accompanying cooling towers, but some of its ancestors had not. When the report deals with the technical progress made and promised, there is a throb of honest belief in its mission in the words it uses. When . . . but that is enough. I hope that the panel of the eminent is happy in its work, and that it has enough work to be happy over.

Another publication that looks a little unpromising at first sight is the report of the Advisory Committee, set up by MOTCP, on Sand and Gravel, Parts 3 and 4, which cover the Trent Valley and the West Midlands. The Committee is engaged in a long term survey of the workable sand and gravel beds in the country and the earlier parts have already dealt with the Thames Valley. It has a most complex task because almost invariably there are at least two claimants to most land with gravel under it; the man who farms the surface and those who need the sand and gravel. If the land is also claimed by industry or housing, the confusion is doubled.

The Report (2s., from the Stationery Office) is too long to cover fully but it does seem to me that it raises points that are fundamental to every form of planning activity, and, indeed, to the architect, who is very dependent, ultimately, on the extracted sand and gravel. Here are two:—

(a) Is the Committee right in basing recommendations relating to the future policy for sand and gravel workings on "natural economic laws of supply and demand"; in regarding as "impracticable" any solution which would entail a sharp rise in transport costs or "violent distortion of current marketing arrangements," for that means that the sand and gravel in the river terraces—good agricultural land as a rule—is preferred for development to the more remote but otherwise less agriculturally useful site. Is that too short-sighted, or can we not afford to be otherwise?

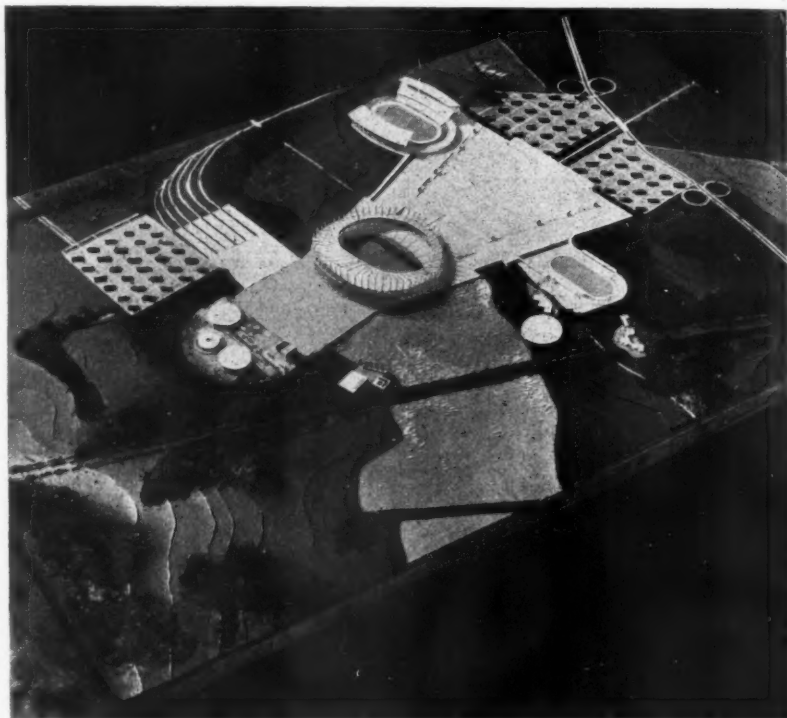
Early last month, Professor Dudley Stamp was talking to surveyors on this question of land utilization, and protesting against what he called the deification of an urban way of life. There is nothing more urban, in the worst sense of the word, than a worked-out, wet gravel pit—indeed, often enough its only possible future is to become a local "Lido." Yet who wants to see a sharp upward movement in the cost of sand and aggregates?

(b) Is it right that the Committee should rule out the detailed regulation of each fresh development involving the working of sand and gravel, and to rely on local planning authorities to hold a fair balance between agriculture, amenities, the need for building sites and the claims of the sand and gravel industry itself? If not, is there any other solution, short of complete nationalization of the whole industry, likely to give effective control of the whole process? (I thought the election would come in again, somewhere.)

I do no more than pose the questions. But they have to be answered, by default if not positively, and a user of the end product, the architect, can hardly shrug his shoulders and claim that it is none of his business.

The value of this kind of report is immense. It collects and digests a mass of useful information on the geological distribution of sand and gravel—thus doing for every local planning authority one section of its work. It poses the social questions that are inevitably involved, and it finishes by suggesting an approach to the kind of planning which should give both the former and the sand and gravel industry itself a much greater feeling of security than either now possess. If both know what can be done, and where and when ("when" is perhaps the most important), the general uncertainty in their lives is that much diminished.

A NATIONAL SPORTS CENTRE PROJECT



The scheme, partially illustrated here, is the result of a new departure in the curriculum of the Kingston School of Architecture. The intention was to provide students with the opportunity of working in a group, not in the earlier years of their course, but in the fifth year, a time when the staff consider that they are mature enough to arrive at group decisions. From the beginning to the end of the scheme committee meetings were held and all decisions were recorded, the member of staff in charge acting as chairman.

The problem was to provide a national sports centre in which all the largest national sporting events could take place, and which could also cater for an international Olympiad. After consultation with the administrative officials of the last Olympic games, the accommodation necessary for such a scheme was determined. The first two weeks were given over to research conducted by students individually into various aspects of the scheme, e.g. site study, rail and road services, research into individual buildings, organizational problems of Olympic Games, etc. During this time a model of the site was constructed.

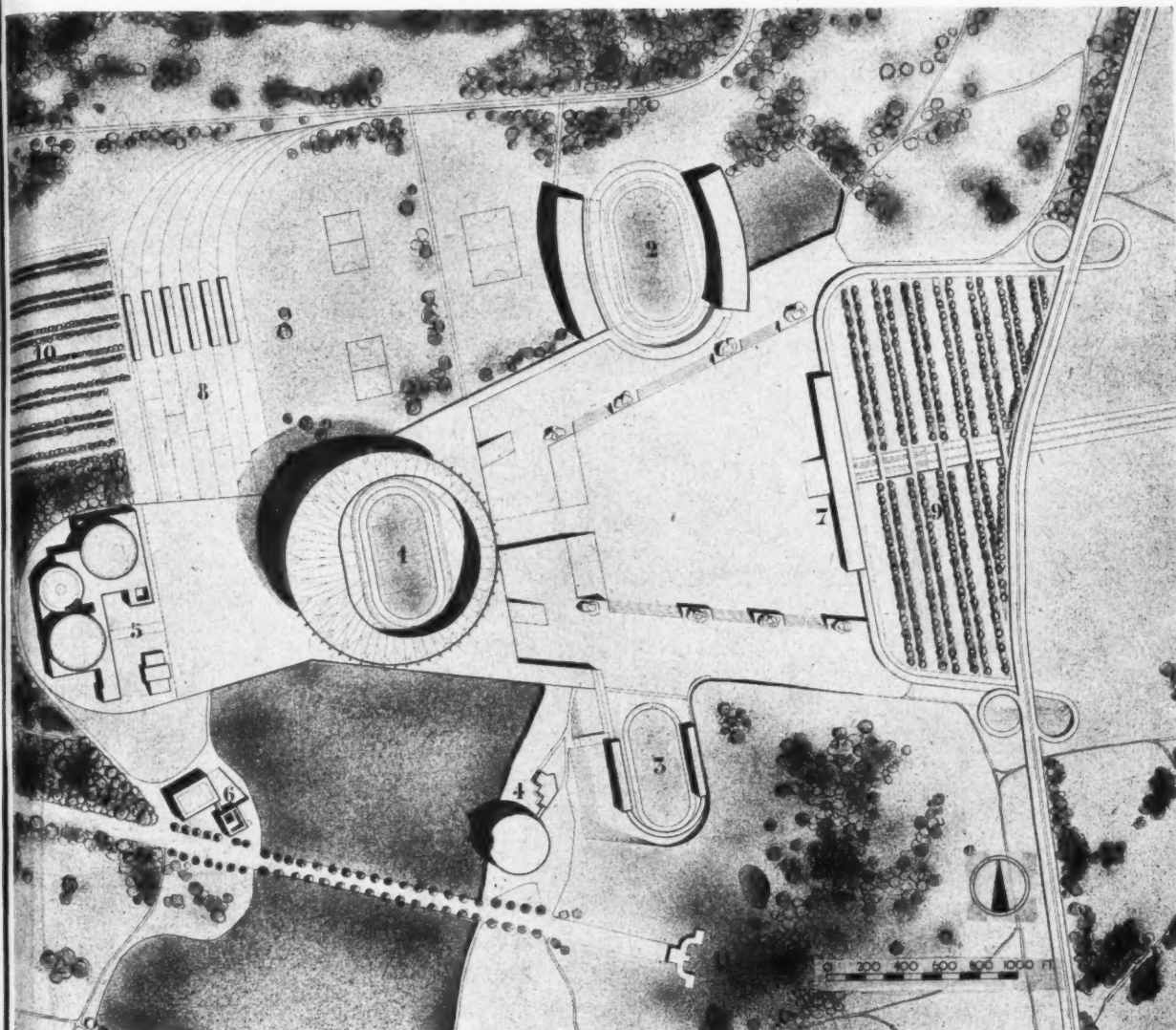
During the following six weeks a number of sketch proposals were produced, sometimes by individuals, sometimes by small groups, and all proposals were submitted for criticism by both the whole group and members of the staff. After the majority adoption of a general scheme, this design was developed in sufficient detail to allow the group to split up again for the more detailed development of the various buildings. The site chosen was an area near the north-east corner of Richmond Park, which is well served by road and rail. Road proposals of the Greater London Plan were used as the basis for the solution of traffic problems.

KEY

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2. Stadium
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4. Swimming
5. Ground
6. Hall
7. Administration
8. Rail
9. Car
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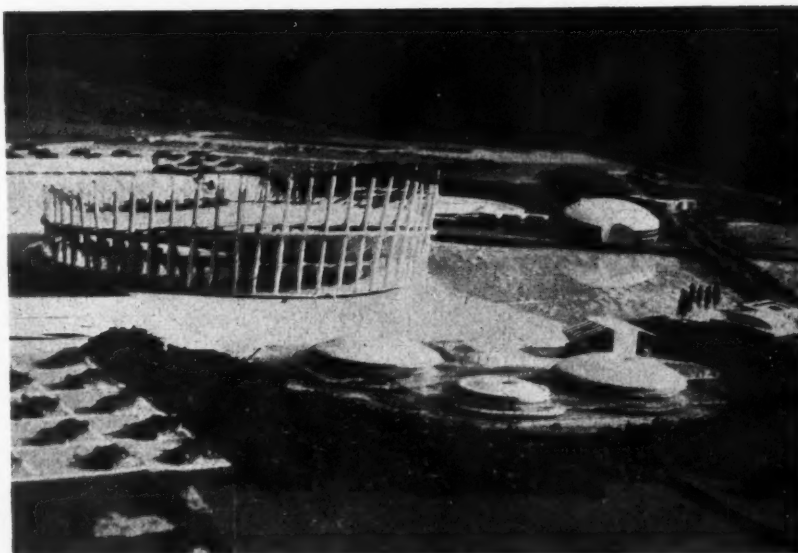
BY ARCHITECTURAL STUDENTS : KINGSTON SCHOOL OF ART



SITE PLAN

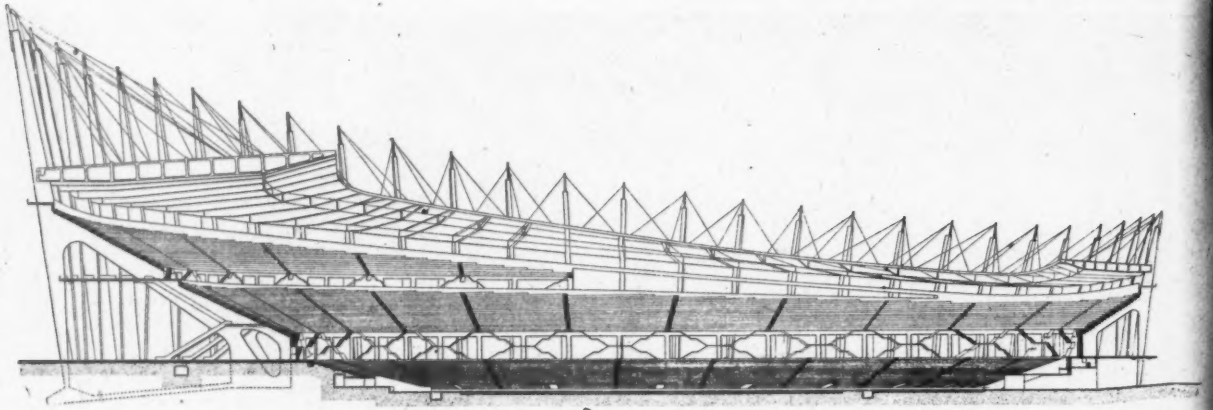
KEY

1. Stadium for 100,000 spectators for most major athletic events.
2. Stadium for 30-40,000 spectators.
3. Cycle track.
4. Swimming pool and ice rink.
5. Group of halls for athletics.
6. Hall for fencing.
7. Administration.
8. Railway Station.
9. Car park.
10. Car park.
11. Existing building.

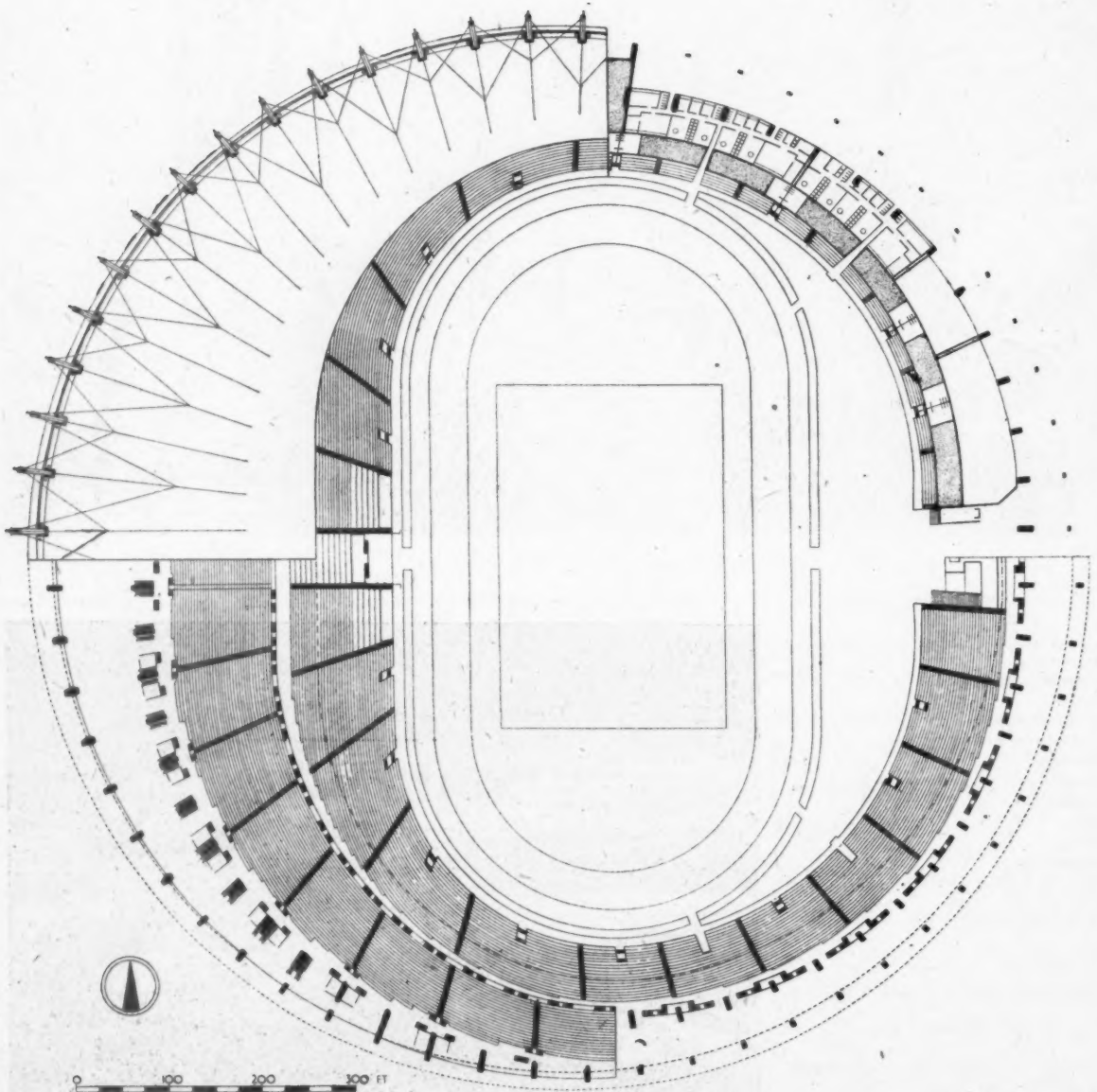


On the right is a view of the model from the north-west.

NATIONAL SPORTS CENTRE PROJECT BY STUDENTS



SECTION OF MAIN STADIUM

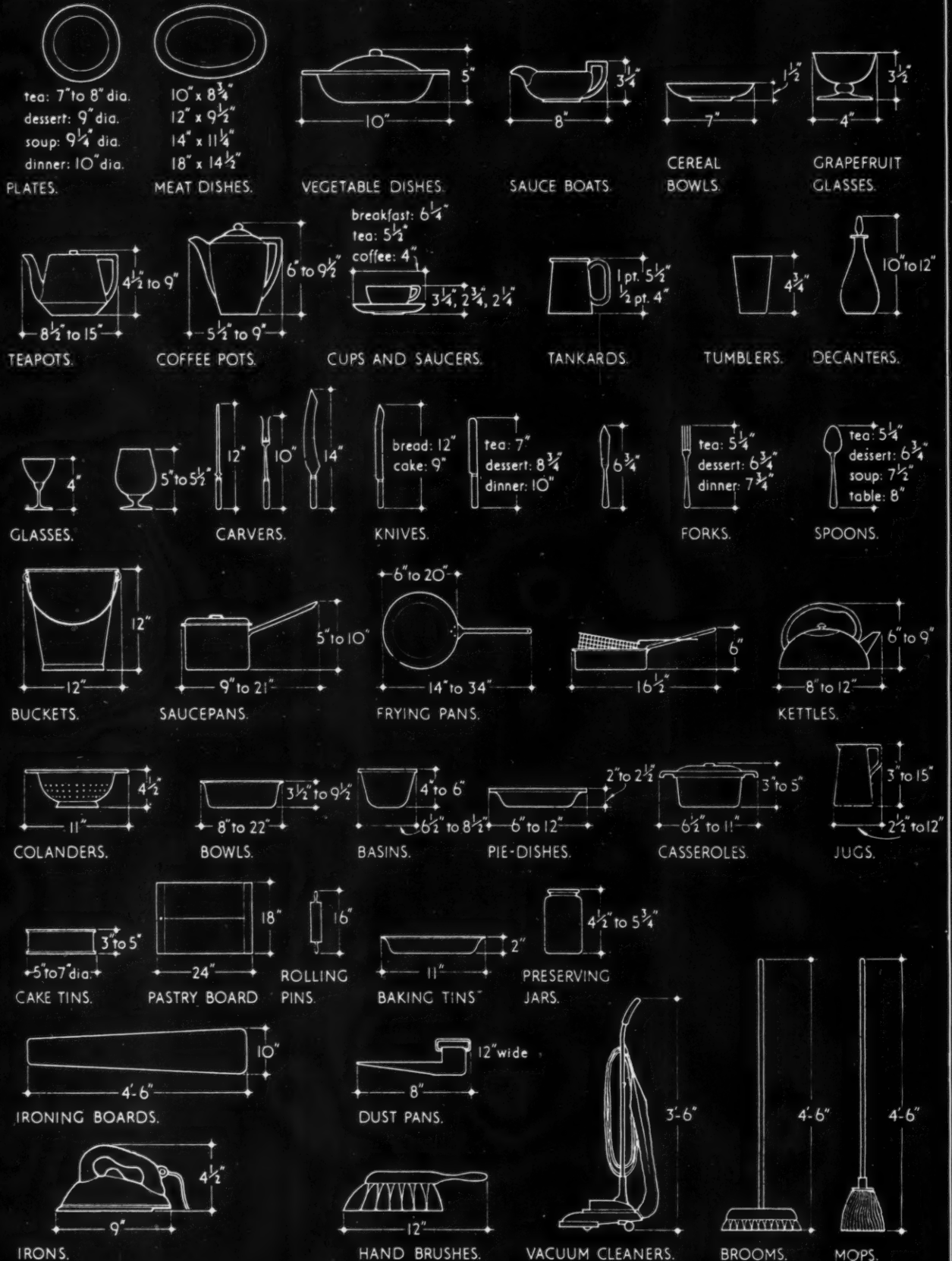


PLAN OF MAIN STADIUM

DESIGN DATA | COMMON SIZES

4.A11

The Architects' Journal Library of Information Sheets 247. Editor: Cotterell Butler, A.R.I.B.A.



4.A11 COMMON SIZES 2 : CHINA, CUTLERY AND KITCHENWARE

This Sheet is one of a group setting out "common sizes" and deals with china, cutlery and kitchenware.

Where one dimension only is given this is suggested as a typical average size.

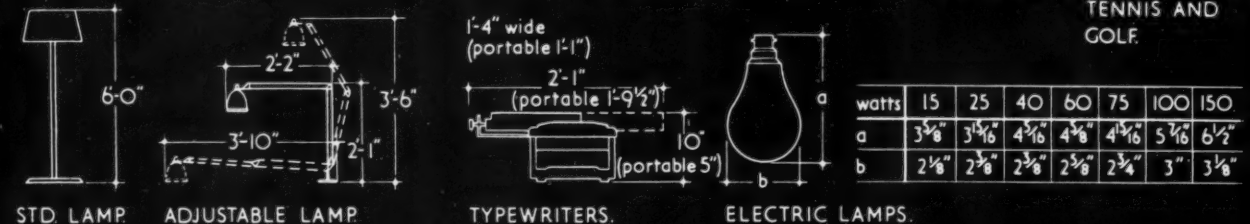
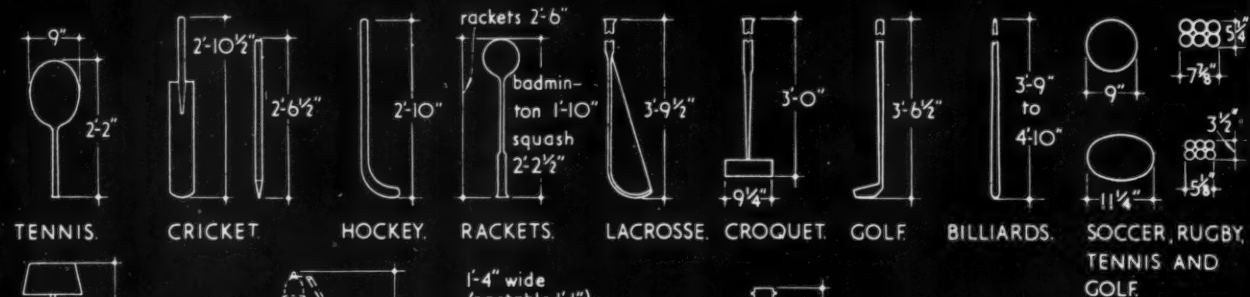
Where a number of dimensions is given this suggests a generally accepted range of sizes.

Where limiting dimensions are given, e.g., 5 in. to 10 in. this is intended to cover the typical minimum/maximum range.

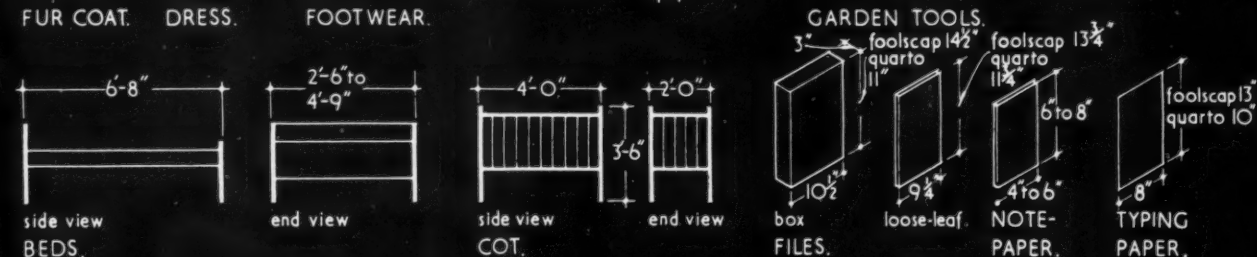
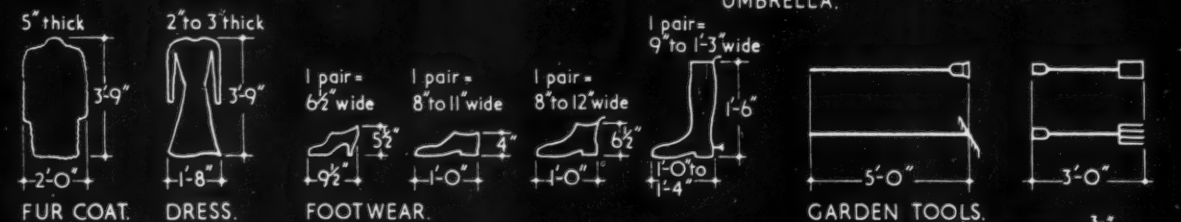
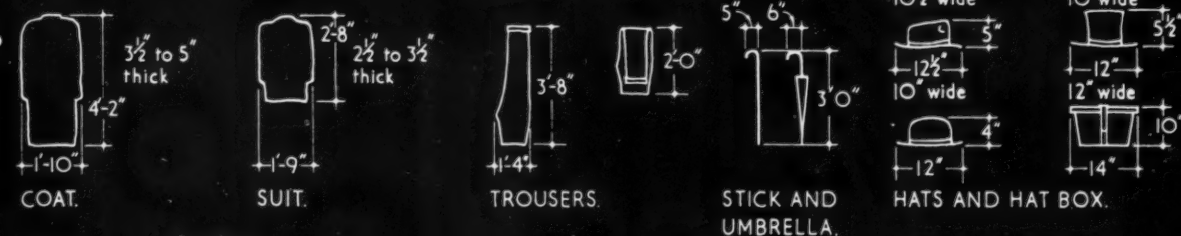
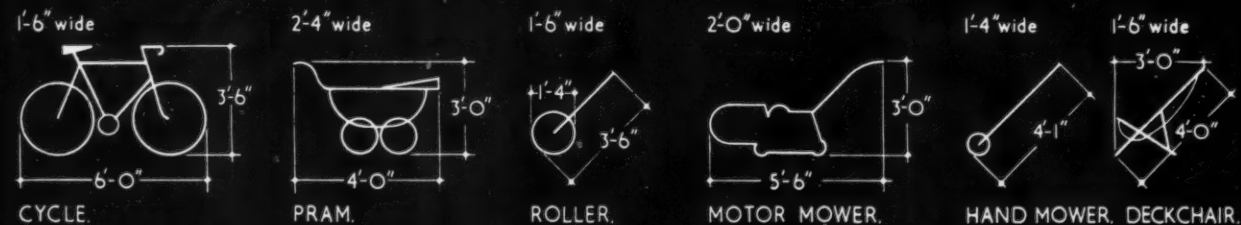
Other Sheets in this series cover chairs, tables and miscellaneous items.

DESIGN DATA | COMMON SIZES

The Architects' Journal Library of Information Sheets 248. Editor: Cotterell Butler, A.R.I.B.A.



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SHELVES TO TAKE STANDARD SIZED BOOKS.

antiquarian 53" x 30"
 double elephant 40" x 27" or 30"
 imperial 30" x 22"
 half imperial 20" x 15"

DRAWING PAPER.

COMMON SIZES 3 : MISCELLANEOUS ITEMS.

4.A12 COMMON SIZES 3 : MISCELLANEOUS ITEMS

This Sheet is one of a group setting out "common sizes" and deals with miscellaneous items.

Where one dimension only is given this is suggested as a typical average size.

Where a number of dimensions is given this suggests a generally accepted range of sizes.

Where limiting dimensions are given, e.g., 6 in. to 8 in. this is intended to cover the typical minimum/maximum range.

Other Sheets in this series cover chairs, tables, china, cutlery and kitchenware.

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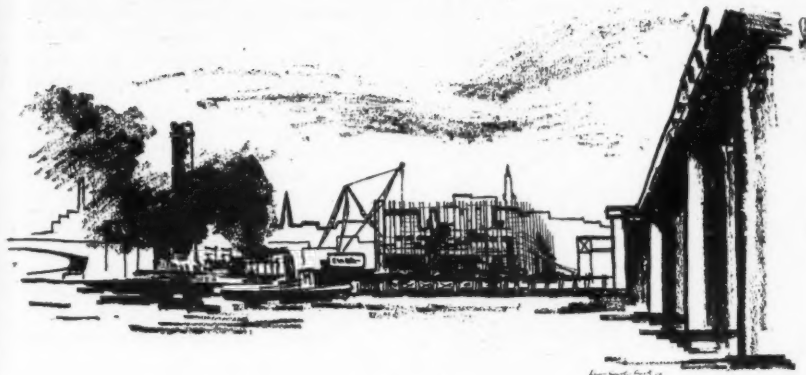
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This week THE JOURNAL is publishing the first of a series of articles on the LCC Concert Hall. It is the only building of its kind being erected in Great Britain today and, when the first part is completed by 1951, it will stand as the embodiment of the advances which have been made over the last ten years in building technique, acoustics, and concert hall design. A large number of the profession today have had little or no chance of studying the design and construction of a building of this kind. THE JOURNAL has therefore asked two architects, John Eastwick-Field and John Stillman to prepare a series of reports on the concert hall, so that our readers will be able to follow the progress made in its construction and become familiar with some of the problems which beset the architect when supervising the erection of a building of this very complex nature under unprecedented conditions. We would like to express our gratitude to Robert H. Matthew, Architect to the Council, to Dr. J. L. Martin, Deputy Architect, to Edwin Williams, Senior Architect and Guthlac Wilson, of Messrs. Scott and Wilson, Engineers, for the help and advice which they have given.

CONCERT HALL PROGRESS

Reported by John Eastwick-Field and John Stillman

AN architect always has to face the difficult task of discovering in detail what his client really wants, or what he ought to want, finding the architectural answer to these requirements, and then persuading him to accept the proposed solution. With the Concert Hall the problem was a specially difficult one, for there was no consensus of opinion as to the detailed design of such a hall, and, since the client is London's public, represented by the LCC, more than customary investigation was necessary in order to discover how best, on this occasion, to serve the client.

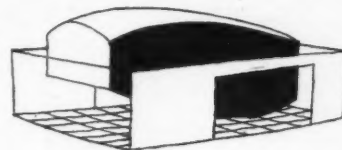
FORMULATION OF THE PROGRAMME

The hall is, of course, to be foremost a permanent centre of music for London, and as such must embody all that theory and experience can give to

provide conditions which will satisfy the most critical audience; at the same time it is to be expressly a part of the '51 Exhibition, and must, therefore, contribute to the spirit of the Exhibition without being tinged with the impermanence and abandon of "exhibition" building. It is, after all, to be primarily a permanent contribution to London's architecture.

In matters of housing and education there is a long tradition to be drawn upon to help formulate the programme—that is, to find out what is required—but for the Concert Hall there was no such precedent, and even the basic requirements were more open to controversy than are those forms of building with which the LCC is usually concerned.

Nevertheless, the idea of a Concert Hall for London had already been the subject of debate for some time



DIARY

August 18, 1948.—Government request to include Concert Hall on Festival Site. Development Section set up.

December 6, 1948.—Scheme presented to specially appointed Committee.

May 3, 1949.—Approval of scheme and acceptance of tender.

May 4, 1949.—Order to commence issued to Contractor.

May 7, 1949.—Excavation started.

May 19, 1949.—Dewatering commenced.

June 1, 1949.—Sheet piling commenced.

June 25, 1949.—Sealing concrete poured on dry site.

June 27, 1949.—Waterproofing commenced.

June 29, 1949.—Reinforced concrete bases commenced.

July 4, 1949.—Mass concrete foundations commenced.

July 23, 1949.—Basement walls commenced.

September 14, 1949.—Ground floor slab commenced.

October 12, 1949.—Foundation stone laid and superstructure commenced.

October 15, 1949.—Excavation for foundations for car park commenced.

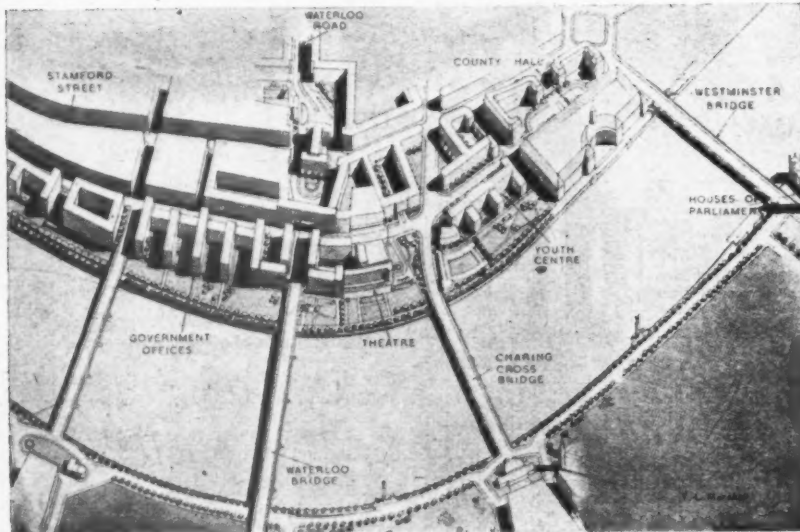
October 26, 1949.—Foyer area commenced.

November, 24, 1949.—Auditorium sloping floor commenced.

December 7, 1949.—Extraction of sheet piling.

among music lovers, especially since the destruction of the Queen's Hall. There were available some general, but perhaps ill-defined, opinions as to what might be desirable. In addition, it was evident that the maximum accommodation should be provided, consistent with good listening conditions, which have been so sorely lacking in London and for which there is an increasing demand, and that consideration should also be given to those other delights, such as eating and drinking and being merry, which contribute to the enjoyment of listening.

At a meeting of the Town Planning Committee of the LCC, at which the ideas of officers of many departments were considered, certain essential requirements emerged. There was to be a large hall; a small hole for chamber music, amateur theatricals and cinema projection; two meeting or lecture



The first proposals for the South Bank, as shown in the County of London Plan, proposed by J. H. Forshaw and Sir Patrick Abercrombie.

rooms; a large restaurant; exhibition space, and a foyer for receptions, dinners and dances. In framing this initial programme, advice was sought from many quarters, both inside and outside the LCC. The LCC vested the entire responsibility of the build-

ing of the Concert Hall, the new river wall, and the Belvedere Road improvement scheme in the General Purposes Committee, which, in turn, appointed a Concert Hall Sub-Committee. In order to minimize delays, special authority was given to the Chief

Engineer, the Chief Architect and the Director of Housing and Valuer to enter into contracts of up to £10,000 in anticipation of the Committee's approval.

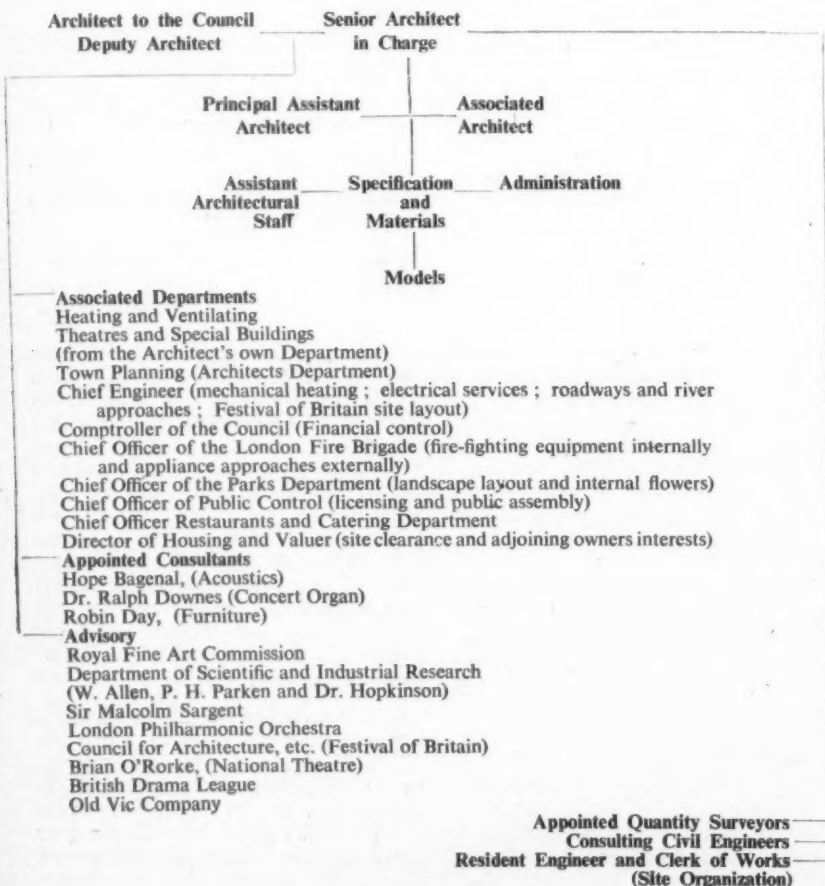
With this broad programme in mind, the architect was instructed to proceed with a scheme, and, in order to do so, a "Concert Hall Division" was set up in August, 1948, within his department, the members of which were selected from both the existing staff and from outside. The organization is complex, and is, therefore, perhaps best shown diagrammatically as below, left:

From August, 1948, onwards the investigation of detailed requirements became the responsibility of the architect. In the great degree of responsibility which rested with him for the ultimate size, shape and character of the hall, the relationship between client and architect was somewhat unusual. Technical considerations in the interest of the final purpose, namely that of good listening conditions for music, dictated many of the decisions about the hall which in this instance had to be made by the architect.

It will be seen from the diagram that there were a number of consultants and advisory bodies to whom the architect referred, and still refers direct, notably those concerned with acoustics, and, of course, with the structural calculations of the building. It was almost entirely due to acoustic considerations that any ideas of a multi-purpose hall were abandoned, and that the present seating capacity of approximately 2,800, with an additional 250 in the choir seats (when not in use for performers) and standing space for 300, was decided upon. Suggestions were also made from various outside sources to make the large hall suitable for dancing and for cinema projection, and there were proposals for a far greater seating capacity. Such proposals were abandoned because, quite apart from site area conditions, it was felt that quality in musical tone would suffer.

Needless to say, these decisions were not made without exhaustive investigations, and with advice from acoustic and musical experts at home and abroad (H. Bagenal, F. Ingerslev of Copenhagen, and Dr. R. H. Bolt of the MIT, USA), and from the field of science (the BRS represented by W. Allen and P. H. Parkin) and from conductors and musicians, notably Sir Malcolm Sargent. Many leading symphony conductors in the country were consulted about the general requirements for music, and a questionnaire was also issued to one of the principal orchestras.

So far as the structure was concerned, stringency in steel supply dictated a concrete framed building, but it is fortunate for posterity that this condition accorded with the acoustic requirements. The difficulties of



isolating the hall from external noise which the proximity of Hungerford Bridge made even more acute, were thought to be better overcome by the present system of construction than would have been possible with a steel framed building.

APPROVED SKETCH DESIGN

Concurrently with the investigations described in the previous paragraph, various ideas for the design and shape of the building were being developed. It is interesting that during all this work models were used to help with the designs and to explain them to the various committees. These designs culminated in one which successfully overcame the circulation problems and which, by positioning the ancillary accommodation round the main auditorium, which was itself poised above the ground, effectively contributed to the means of isolating outside noise.

This design was presented to the special sub-committee on December 6, 1948, and approved. The original approximate estimate excluded the small hall, exhibition space, meeting rooms, and some ancillary rooms, which were not to be built at first. These were necessarily left out at this stage since it was estimated that the whole project could not be completed by 1951 owing to the additional time required for building in concrete as distinct from steel construction.

APPROVALS

Permission to develop was granted by the Minister of Town & Country Planning since the LCC were themselves the Local Planning Authority.

The elevations had already been discussed with the Royal Fine Art Commission, and after several meetings, at which a number of minor points were raised, they expressed a favourable view.

The transport authorities had to be satisfied that the works would not adversely affect either the Charing Cross Bridge or the underground line which runs beneath the site. Further the whole design had to comply with the provisions of the London building acts, byelaws and regulations.

CONTRACT STAGE

A great effort had then to be made to draw up more detailed plans, which would allow the quantity surveyors to prepare approximate quantities and the consulting civil engineers to develop their designs. A target date was fixed

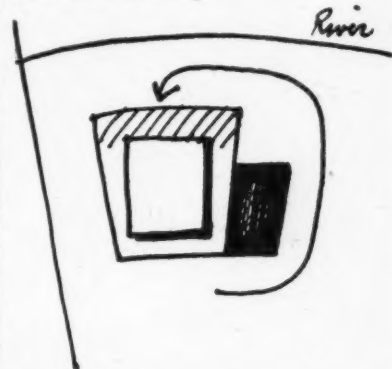
for May 3, 1949, by which time competitive tenders were to have been received and ready for presentation to the Council.

Owing to the shortness of time for the purpose of inviting tenders, no attempt was made to have precise Bills of Quantities prepared from final working drawings and details. In the words of the General Purposes Committee's Report to the Council, prices were invited from selected firms "under very specially particularized conditions of tender. . . . The work will be measured as it proceeds and payment will be based on prices contained in the schedule of prices submitted with the tender, but a considerable number of items in the tenders are prime cost or provisional sums which will be subject to the submission of quotations."

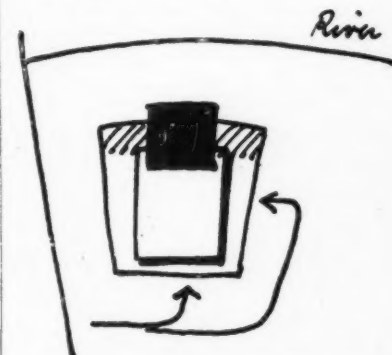
Prior to the invitation of tenders, leading contractors were interviewed and asked to give their proposals for overcoming the exceptional problems involved, particularly those relating to the early completion date. This emphasis on the site methods and organization was carried a stage further as each of the contractors finally selected for competition was asked to submit with his price a detailed programme of construction showing how the tenderer planned to ensure completion of the main auditorium in time for the opening date in 1951.

Out of seven contractors invited to tender, two felt unable to comply with the conditions. The tenders of the remainder which included both stages of the work, were opened by the

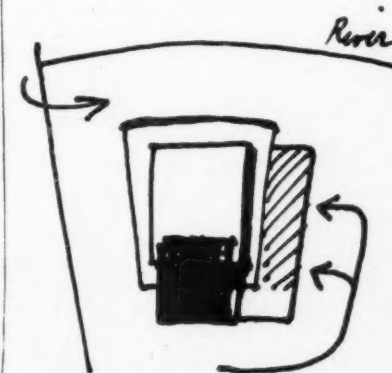
The main points governing the arrangement of the plan were: the disposition of two halls in relation to each other; the provision of large reception and foyer space; convenient access from the present grand level and high level of Hungerford Bridge; advantages of outlook over the river for the restaurant. A number of alternative schemes are clearly possible. The four sketches below, by Dr. Martin, are variants of one particular series.



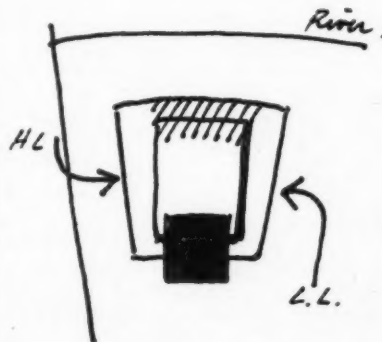
1. Two halls side by side on one level. Difficulties arising are site coverage, small foyer, problems of escape stairs and access for theatre scenery.



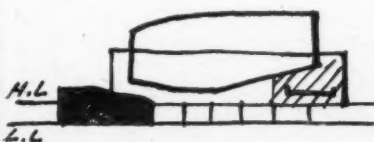
2. Two level arrangement with one hall above another. Convenient access for large hall from Belvedere Road and small hall from side. Difficulty of blocking view at terrace level by theatre stage and of access to this for scenery, etc. High level restaurant.



3. Two level arrangement of halls as above, with side access foyer and restaurant over. Asymmetrical arrangement; some site advantages but unsuited to internal planning where escapes and access are essentially balanced.



4. Selected arrangement with halls above and below spacious common foyer give convenient high level and low level access to centre of accommodation. Restaurant and foyer with uninterrupted views of river. This ensures a balanced circulation. The section, left, shows how this arrangement of halls and foyer are related. Immediately below the auditorium, is the foyer, with the restaurant on two levels on the right and the small theatre on a lower level on the left.





The architects responsible for the Concert Hall. From left to right, Peter Moro, Associated Architect, Robert H. Matthew, Architect to the Council, Edwin Williams, Senior Architect, and Dr. J. L. Martin, Deputy Architect.

vice-chairman of the Council on March 31, 1949, and were as follows:—

Gee Walker & Slater Ltd.	£1,607,774
Holland Hannen & Cubitts Ltd. ...	£1,628,260
Holloway Bros. (London) Ltd. ...	£1,639,068
Trollope & Colls Ltd. ...	£1,720,881
John Mowlem & Co. Ltd. ...	£2,228,101

The General Purposes Committee made its report to the Council on May 3, and in the following words recommended the tender submitted by Holland Hannen & Cubitts for acceptance:—

"Each tender has had to be carefully scrutinized not only as regards pricing, but also from the point of view of the tenderers' proposals for executing the work in time. On this respect, full consultations have taken place between the Engineering Consultants, the approved Quantity Surveyor and the Council's Officers, who have unanimously advised that the scheme submitted by Holland Hannen & Cubitts Ltd. seems to meet most fully the special conditions under which the building will be erected, and its acceptance would enable the Council to look forward with confidence to the completion of the work by the desired date. We therefore propose to accept this tender, the difference between the amount of which, and the amount of the lowest tender, is equivalent to approximately $1\frac{1}{2}$ per cent. of the latter."

The Quantity Surveyor's comparable estimate was £1,800,000.

Provision had also to be made for equipment and furnishing, concert organ, consultants' fees, establishment charges, printing and incidental expenses, which brought the total estimated expenditure to the sum of £1,933,585.

SITE CLEARANCE

During the time that the architects were concerned with the design and tenders, the Valuers' Department had been responsible for clearing the site, working to a target date in April. With the advice of Messrs. Scott & Wilson, the consulting civil engineers, a separate contract had also been let for trial borings.

DRAWING OFFICE WORK

The development of working drawings from the approval of the sketch design on December 6, 1948, has been a continuous process involving three main tasks which are yet to be completed. These are:—

(a) The completion of final $\frac{1}{8}$ th scale drawings, with the collaboration of the consulting civil engineers.

(b) The layout for plumbing drainage and engineering services to ensure the correct position of ducts and holes in the concrete structure.

(c) The development of design details, and the selection of sub-contractors based on the submission of competitive tenders.

Since the whole structure was to be of reinforced concrete the first actual working drawings had to come from the consulting civil engineers, and it was necessary for the scheme to be sufficiently advanced for them to be able to make their detailed calculations.

The closest co-operation was necessary between the architects' drawing office and those of related servicing departments, so that openings and chases should be provided and correctly placed. In practice it has been found that the best way of dealing with the problem is for all openings larger than 6 in. x 6 in. to be marked on the drawings, and for the position of all smaller openings to be decided upon on site by the electrical and heating engineers, in consultation with the resident engineers.

A quantity of steel was earmarked at an early stage to avoid delays, and similarly, where other materials were known to be on long delivery, the LCC placed advance orders. Such items included steel boilers, lifts, pipes, and duct work.

In keeping with the general policy of decentralized organization, the consultant civil engineers have direct contact on the site with the resident engineer representing the architect.

SITE ORGANIZATION

Owing to the large size of the building and the speed at which the work has to be done, the appointment of an efficient supervisory staff on the site was essential. This now comprises the resident engineer supported by the clerk of works who, with a staff of assistant resident engineer, assistant clerk of works and five inspectors, is responsible to the architect. On the contractor's side the job is controlled by the contract manager supported by a supervising engineer, an engineer specializing in reinforced concrete, three assistant engineers and three general foremen. Fortnightly site meetings are held on the site to discuss progress and current problems. Monthly policy meetings are held at County Hall between the architects, consultants, civil engineers, the contractors, and the quantity surveyors. The contractor employs a labour and welfare officer to look after the interests of the men, including the administration of first aid. He also maintains close co-operation with the trade union representatives who are allocated on the normal basis for works of this size. There is a canteen, provided by the contractor, which serves 90 per cent. of the men and staff on the site with a main meal and mid-morning and afternoon tea, with a similar service at night. This canteen is fitted with modern equipment and is run by a domestic staff under a manageress.

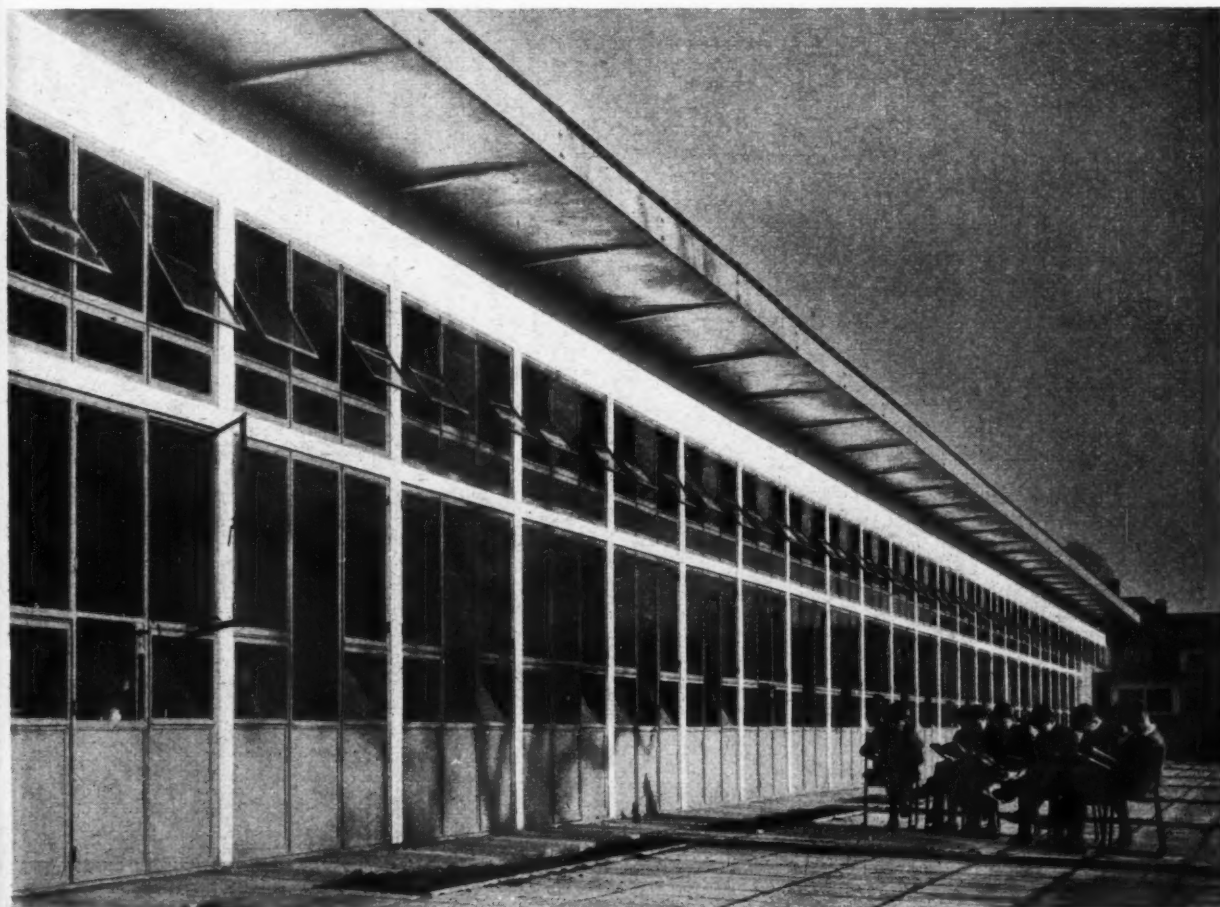
SCHOOL

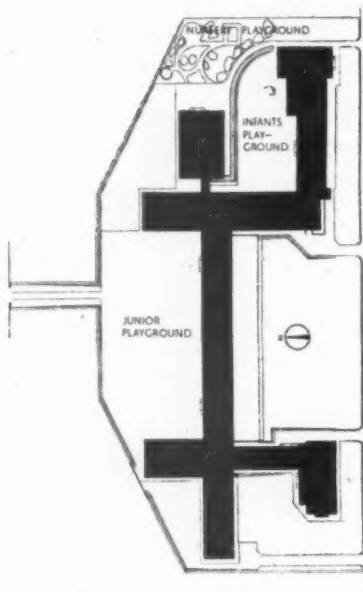
at CHINGFORD, ESSEX

designed by H. CONOLLY, COUNTY ARCHITECT

The Friday Hill Primary School in Longshaw Avenue, Chingford, is a two form entry Junior and Infants' School with Nursery, designed for 360 juniors of both sexes, 200 infants and a nursery class of 40. The site covers an area of four acres and has a noticeable fall from north to south. It is situated on a housing estate which was commenced before the war. Although it was originally intended to provide playing fields on the same site it was subsequently found that owing to a marked change in the local child population, and the provisions of the 1944 Education Act, the site would not be large enough to contain these. They have, therefore, been provided elsewhere.

Junior classroom wing.





SITE PLAN

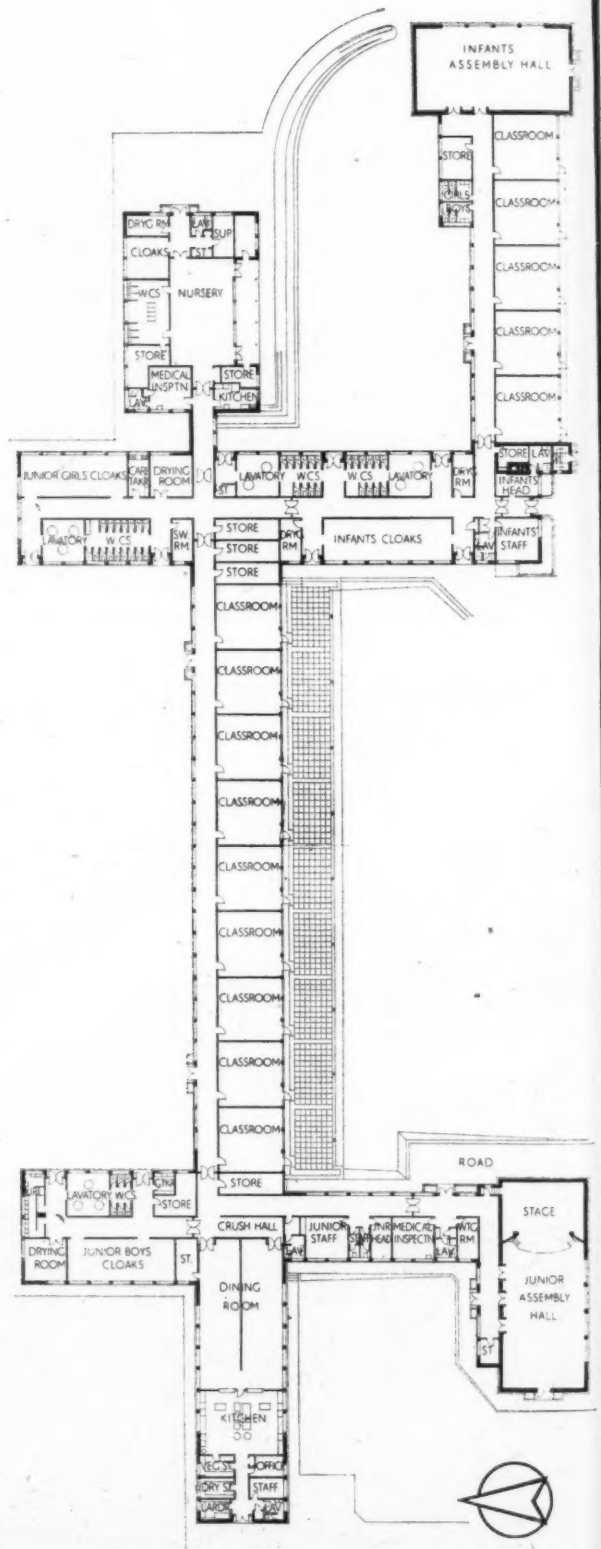
SCHOOL

at CHINGFORD, ESSEX

designed by H. CONOLLY, COUNTY ARCHITECT

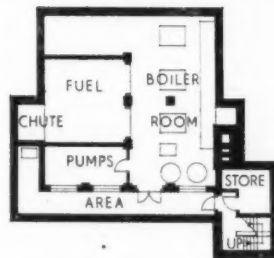
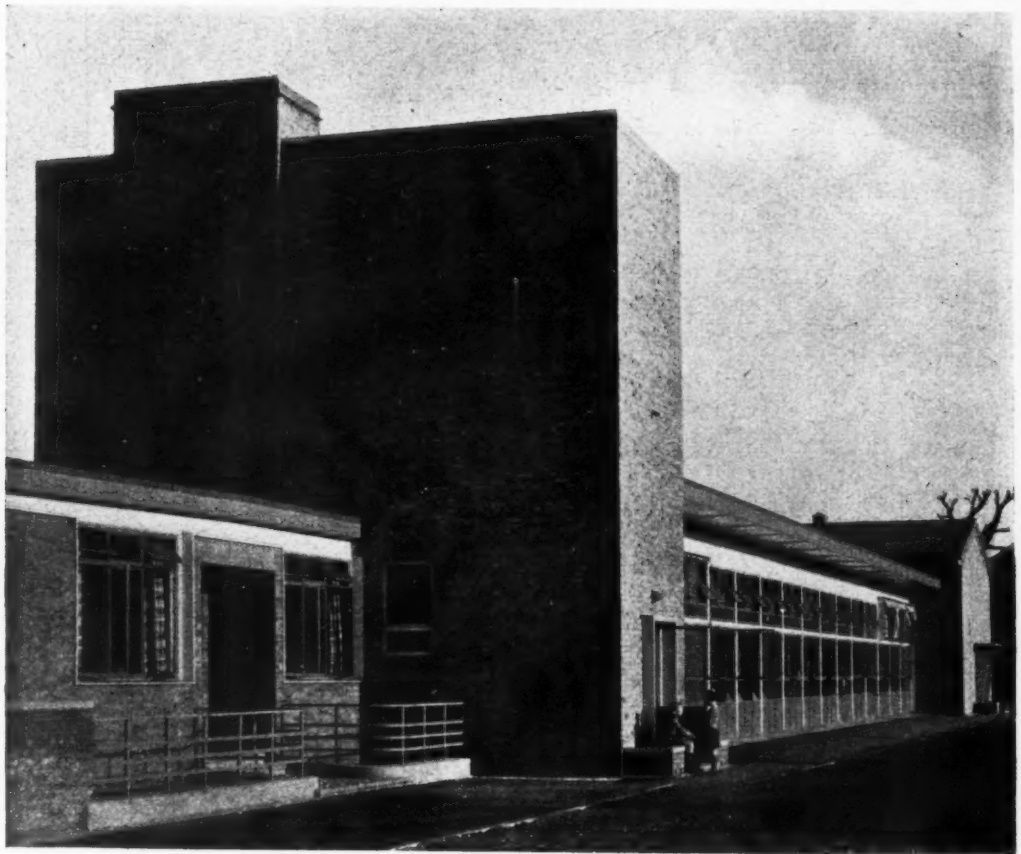
PLAN.—The two classroom blocks are sited in a broken line facing south, and other accommodation is placed to allow suitable playing areas for the children. The junior school consists of nine classrooms opening to the south on to a teaching terrace, with boys' and girls' cloakrooms and ablutions on the north side; the staff rooms and assembly hall form a south wing. The infants' classrooms, which also face south, are connected to the junior school by a block containing their cloakrooms, ablutions and staff accommodation. On the east side of the classrooms is the infants' assembly hall. The nursery is situated on higher ground to the east of the junior school and has a kitchen attached.

CONSTRUCTION.—The building is of light steel framework with London stock brick facings, and the steel deck roof is covered with three-ply bituminous felt. A special feature is the use of pressed steel for trusses and door and window trimmings. Ceilings are of a fibre board suspended system. Ramps are used in place of steps at changes in floor levels. There is clerestory lighting in cloakroom corridors to improve ventilation.



PLAN

[Scale: $\frac{1}{4}$ " = 1'0"]



PLANS OF BASEMENT AND FIRST AND SECOND FLOORS OF TOWER



(Scale: $\frac{1}{8}$ "=1'0")



Above, staff entrance and tower, with infant teaching wing and assembly hall in the background. Left, junior teaching wing with infant wing in the background.



*Main entrance to
infants' assembly hall*

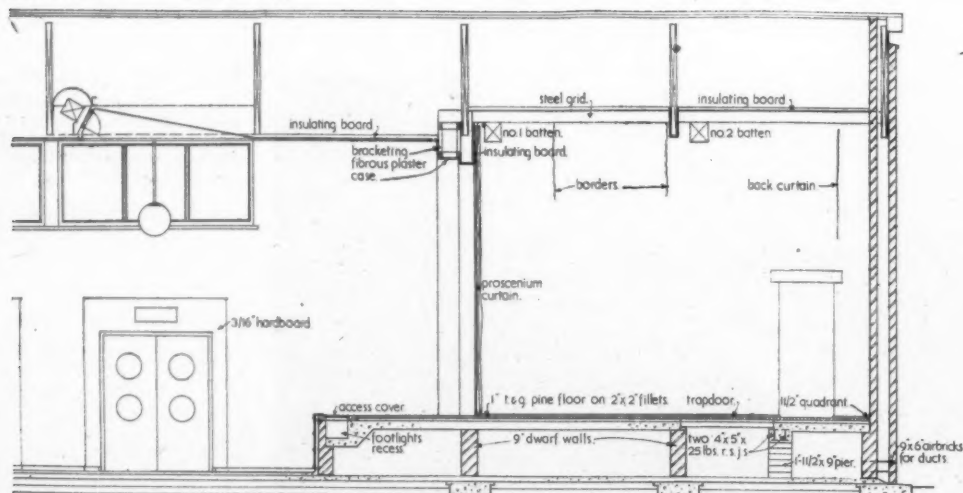
SCHOOL

at CHINGFORD, ESSEX

designed by H. CONOLLY, COUNTY ARCHITECT

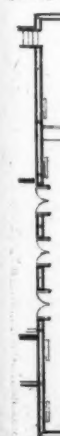
FINISHES.—The internal walls are of fair faced brickwork with paint finishes varying from high gloss to matt and a cold cement glaze finish to all corridors. The internal basic colour is neutral grey. Various brighter colours are added. Externally the colour scheme is in turquoise blue and white. A hood runs the length of the classroom front to reduce sun glare. Allowance has been made for dividing the nursery with a sliding-folding partition at a future date. Lawns are to be laid on the south side of the school and planted with

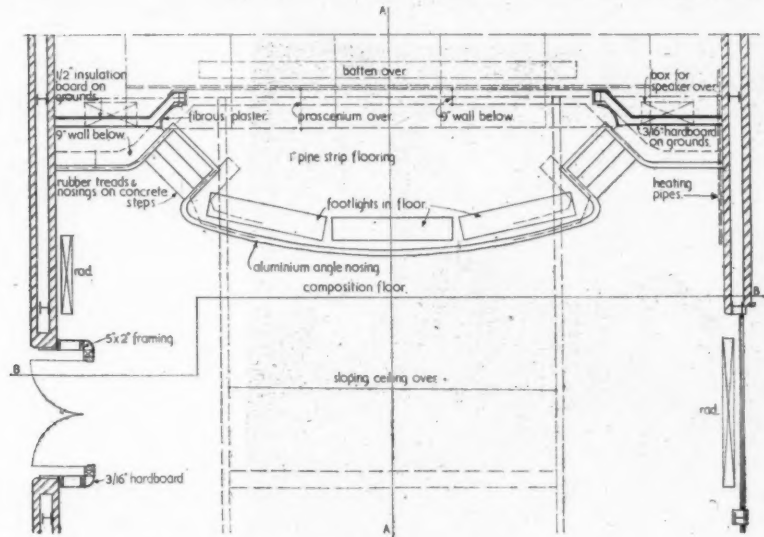
SECTION A-A. [Scale $\frac{1}{4}$ " = 1'0"]



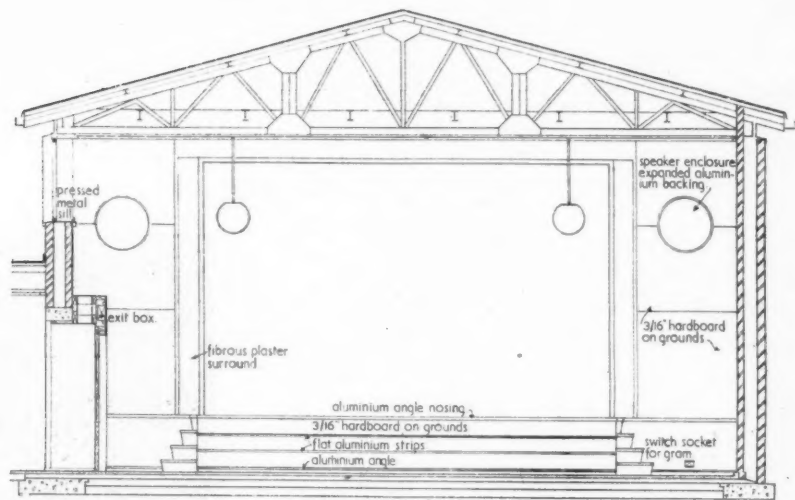
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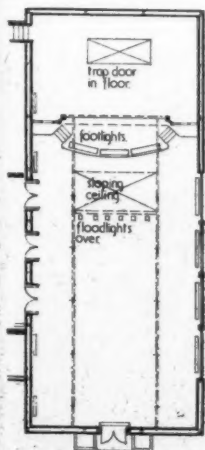
PLAN OF STAGE IN JUNIOR ASSEMBLY HALL



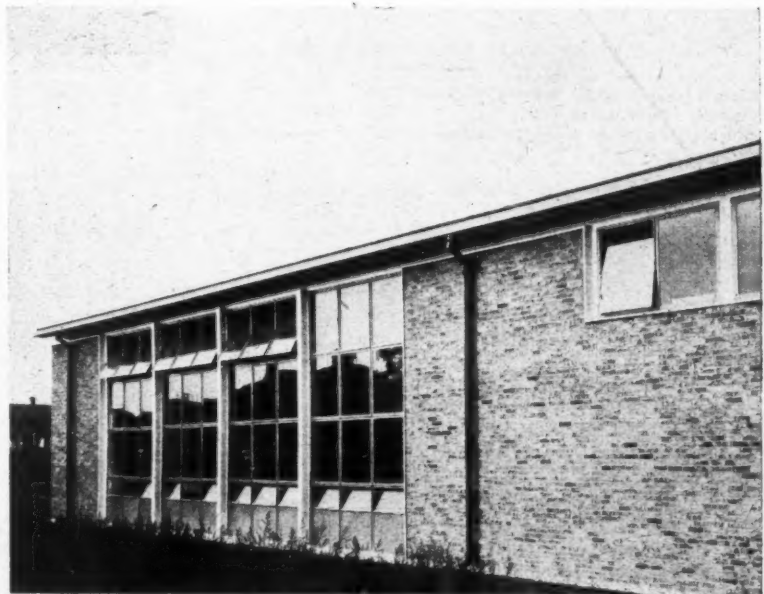
SECTION B-B. [Scale: 1/4"=1'0"]

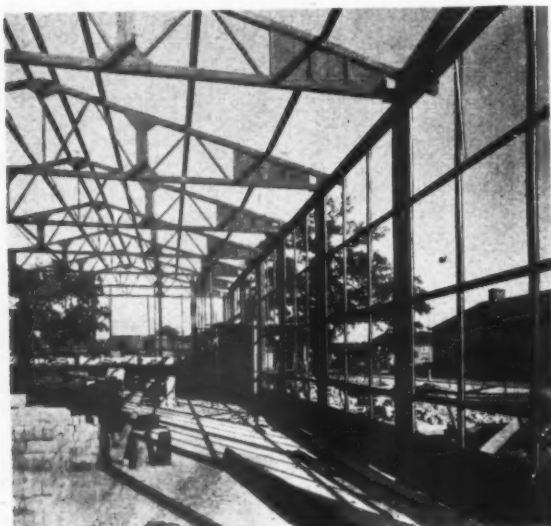
KEY PLAN

[Scale: 1/8"=1'0"]



Junior assembly hall showing full height windows.





SCHOOL

at CHINGFORD, ESSEX

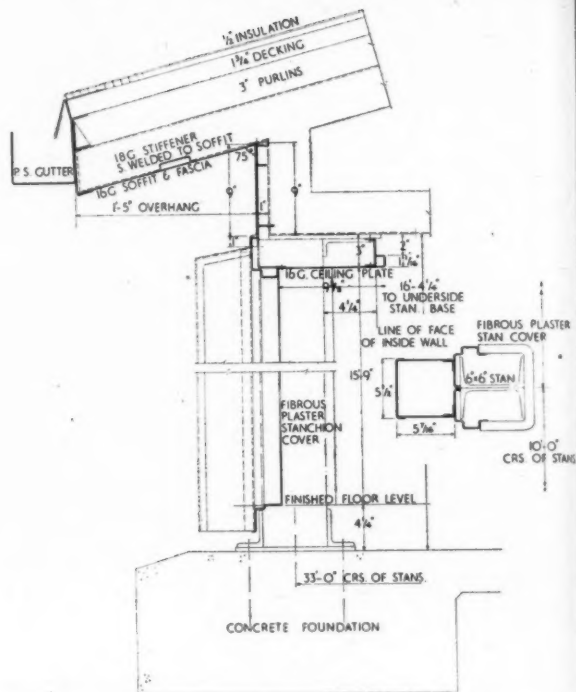
designed by H. CONOLLY, COUNTY ARCHITECT

flowering trees to contrast with the horizontality of the classroom blocks. Flower beds and shrubs will be planted in places where they can easily be seen from the classroom windows.

The Deputy County Architect is Denis Senior and the Assistant County Architect is E. T. Ashley Smith.

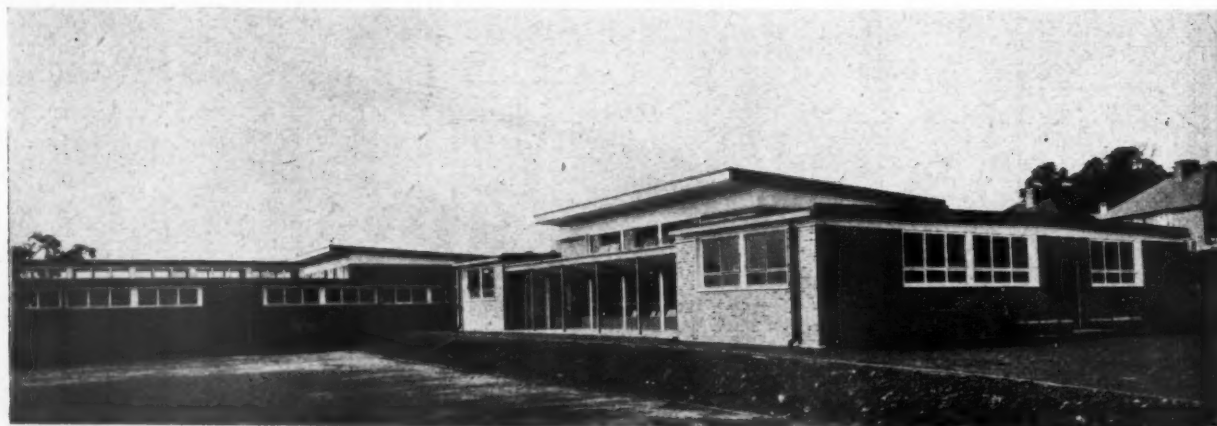
The general contractors were Messrs. Chamberlain Industries, Ltd. For list of sub-contractors, see page 202.

*Above, pressed steel roof trusses.
Right, interior of junior assembly hall.
Below, nursery wing with infant wing on the left.*



SECTION OF FULL HEIGHT WINDOW,
JUNIOR ASSEMBLY HALL

[Scale: 3"=1'0"]





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YK	JET BLACK	JET BLACK
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YJ	TERRA COTTA	TERRA COTTA
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YQ485	CYPRESS GREEN MARBLE	CYPRESS GREEN · SAND · REGENCY CREAM
YE65	REGENCY CREAM MARBLE	REGENCY CREAM · TAN · CYPRESS GREEN
YS248	TAN MARBLE	TAN · ARRAS ROSE · WHITE
YH44	LARKSPUR BLUE MARBLE	LARKSPUR BLUE · WHITE
YJ15	TERRA COTTA MARBLE	TERRA COTTA · SAND · REGENCY CREAM
YR185	ALMOND GREEN MARBLE	ALMOND GREEN · ARRAS ROSE · SAND · REGENCY CREAM
YF34	OLIVE WOOD MARBLE	OLIVE WOOD · TERRA COTTA · WHITE
YM38	PEAT BROWN MARBLE	PEAT BROWN · TERRA COTTA · ARRAS ROSE · SAND
YQ25	SAND MARBLE	SAND · ARRAS ROSE

To carry into effect the advice of the British Colour Council and generally to assist Architects and Interior Decorators, the manufacturers of Semastic Decorative Tiles have named each of the fourteen tiles making up the present range.

It is intended that these names shall convey the colour, or basic colour, of the tile. This, coupled with the existing code number system, will assist in selecting or specifying a particular tile. The details of this new arrangement can be seen in the accompanying chart.

APPROVED CONTRACTORS

ALBA FLOORING CO. LTD.
West Arthurlie Works, Lochlibo Road, Barrhead, Glasgow

J. A. HEWETSON & CO. LTD.
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HOLLIS PROS. LTD.
Craven Hall, Hull

HOLLIS BROS. LTD.
150 Holborn, London, E.C.1

MORSLEY SMITH & CO. (HAYES) LTD.
Dawley Road, Hayes, Middlesex

PILKINGTON'S ASPHALTE CO. LTD.
68 Northiam Street, Hackney, E.8

SEMTEX LTD.
Head Office: 185-187-189 Finchley Road, London, N.W.3
Scottish Headquarters: 53 Kelvin Avenue, Hillington, Glasgow, S.W.2

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.
Steel House, Tothill Street, Westminster, S.W.1

THE PENMAENMAWR & TRINIDAD LAKE ASPHALT CO. LTD.
National Bank Building, Fenwick Street, Liverpool, 2

THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD.
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QUESTIONS AND ANSWERS · CURRENT TECHNIQUE
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TECHNICAL SECTION

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.

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10.68 design: building types HOUSING ESTATES

Modern Housing Estates: A Practical Guide to their Planning, Design and Development. S. Gale (B. T. Batsford, Ltd., 1949. 35s.)

Comprehensive reference book of value rather more in connection with layout of public utility services for housing than with design from a contemporary architectural or town planning point of view. Sections covering legal, administrative and financial housing matters. Fully illustrated and well presented.

An introductory chapter on the choice and design of estates, briefly referring to layout types and building densities, is followed by a detailed account of the design and construction of roads and sewers. Other chapters describe a great variety of urban and rural housing types and give extracts from a number of official housing reports. Legal, financial and administrative aspects are covered in detail but arranged in a rather unintelligible manner instead of providing a methodical digest. A final section of the book is devoted to a fully illustrated description of a variety of private enterprise and local authority housing estates and garden cities based on information supplied by the relevant authorities. There is no critical evaluation of the housing developments thus presented.

10.69 design: building types SWIMMING BATHS

Baths Management: Organisation and Administration. J. A. Davenport. (National Association of Baths Superintendents, Inc., 1949. 10s.)

A textbook for local government baths service personnel rather than for architects, discussing principles of baths management technique and their application to practical examples. Points of possible reference value in connection with planning and design include a short outline of legislation in connection with swimming baths and public wash-houses, and a full account of staff and administrative working routine within a baths establishment.

17.65 construction: general GENERAL CONSTRUCTION

Structural Economy for the Architect and Builder. George Fairweather. (Gilbert Wood & Co. for the Architect and Building News, 1949. 21s.)

Collected sheets of constructional details and notes from articles in the Architect and Building News.

This book aims at making a critical analysis of traditional forms of construction with the following main objectives:—

To identify the main characteristics of building, as these are determined by the materials and methods used for their construction.

To examine these characteristics in relation to the functions and standards of performance required in buildings; and to indicate the main respects in which traditional forms of construction fall short of present-day requirements; and to offer suggestions for improvement.

The traditional forms of construction were selected for this analysis because it is from these forms and the experience already gained by their use that future developments and improved methods of building construction are sure to spring.

For the purpose of this analysis, two basically different systems have been selected to represent the main feature of traditional construction—masonry and light frame construction. These are examined in several of their more common applications, and in each case an attempt is made to identify the limitations inherent in their use.

The building by-laws of the present time are liable to restrict full development of the new knowledge now being brought to bear on construction. The last chapter of this book makes a summary of the regulations now in force, and suggests improvements which arise from the author's experience as a practising architect.

This will prove popular with students as a useful "crib." It has the merit of clear drawings and a critical outlook towards traditional methods. In a few cases the information from the original articles might have been improved by being brought into line with latest information.

18.38 construction: theory FIRE PROTECTION

Fire Research Organization. S. H. Clarke. (FPA Journal Reprint No. 3. Fire Protection Association, 1949.)

The organization of fire research in this country by the Joint Fire Research Organization.

20.168 construction: complete structures AIRCRAFT ASSEMBLY HALL

Aircraft Assembly Hall and Associated Buildings at Filton, Bristol. (The Architects' Journal, Nov. 10, 1949, pp. 517-538.)

Three bays of 345 ft. span between centres, 331 ft. clear. Centre bay 420 ft., outer bays 270 ft. long. Two-pin latticed steel arches tied at the haunches, at 50 ft. centres, each weighing 150 tons. Total steelwork, 7,000 tons. One of the largest steel structures completed in this country since the war.

22.41 sound insulation and acoustics SOUND INSULATION

Noise Reduction in Dwellings. A. London (Architectural Record [USA], Oct., 1949, p.141.)

Principles, sound reduction data, application to single and combined dwellings. Interesting American view. Illustrations and diagrams.

The Americans have slipped a long way behind on sound insulation and their scientists seem to be doing a blitz on their architects to pull things together again. After several years of almost complete acoustical silence in the architectural journals, a sudden noise is to be noticed.

This article describes some principles of insulation treatments and discusses some data from the Bureau of Standards. The principles are now familiar to British readers, and the data go no further than 9 in. brickwork, about 50 d.b. One quotation for cavity walls is given as an estimate because measurements have not been made, which is interesting when one considers the large numbers of houses and flats now built in this country with measured insulation from 55-65 d.b. Also interesting is a figure for the desirable insulation of external walls at 45 d.b. Their frame walls are often so light that passers-by can hear conversations going on.

26.60 services and equipment: miscellaneous INDIRECT CYLINDERS

Galvanized Mild Steel Indirect Cylinders: Annular or Saddle-back Type. BS 1565: 1949. (British Standards Institution. 2s. 6d.)

Copper Indirect Cylinders: Annular Type. BS 1566: 1949. (British Standards Institution. 2s. 6d.)

Two new BS's, dealing with indirect cylinders (storage calorifiers) of between 24 and 100 gallons capacity.

These two BS's cover indirect cylinders of sizes suitable for the smaller type of installation: the first deals with galvanized steel cylinders, the second with copper.

There are seven sizes included: 24, 30, 35, 50, 60, 80 and 100 gallons. These are available in either material; and the principal dimensions are the same for both. All are available in two strengths: one for 40 lb. test pressure, working head 60 ft.; the other, 20 lb. test, working head 30 ft. Steel cylinders above 50 gallons capacity are specified with bolted tops.

Diagrams show the principal dimensions and positions and size of connections, including those for immersion heaters and thermostats.

Details of construction, methods of jointing, thickness of materials and other manufacturer's data are given.

These BS's will be particularly welcome in view of the widely divergent dimensions, strengths and connections of cylinders formerly available.

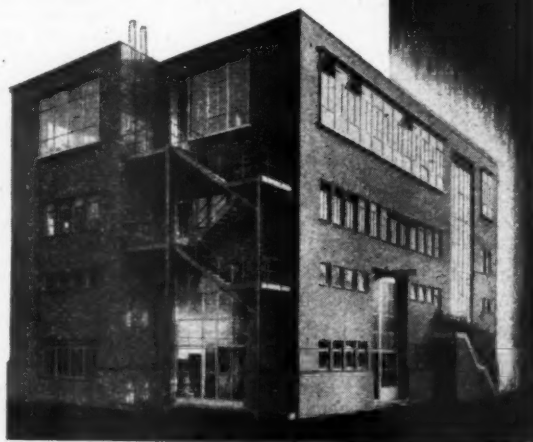


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COUNCIL HOUSES

By Ian Bowen

In its pamphlet on the "Economics of the Council House"* the organization called PEP has revived an old name as well as an old controversy. The pamphlet is confined to a factual review of rents charged by local authorities for both their pre-1939 and post-1945 houses; as such it provides some welcome facts, scarce enough in this field of social enquiry. On the wider issues, it asks (without answering) such questions as:—"Should those who live in municipal houses be helped in preference to, and to some extent at the expense of, those who live in privately owned houses?" or "Is it wise to maintain rents at an artificially low level which does not reflect the cost of production?"

These questions are somewhat naive, since an unequivocal affirmative answer to them has to be given in principle, for political and economic reasons that are well understood by all political parties. They would better have been posed quantitatively. The interesting questions are:—how much will the public tolerate the giving of preference to dwellers in municipal houses; and how great a discrepancy can be imposed upon rents (from their face market level) without serious adverse consequences on supply.

NEW INFORMATION

The facts set out in the pamphlet are new. They were collected for PEP with the help of the Institute of Municipal Treasurers and Accountants. An enquiry form was voluntarily answered by 162 Local Authorities in England and Wales (Scotland is excluded). The authorities included in the sample owned over half of the pre-war stock of local authority houses, and have built about a third of the post-war supply.

According to this poll the national average gross rent for post-war houses in 1949 was 21s., as compared with Beveridge's over-all average for Great Britain in 1939 of about 10s. Unfortunately the pamphlet gives no supporting table to show how this average was reached, in percentage terms. However, it shows that in some regions (such as the northern and south-western) the percentage of householders with rents of 22s. 6d. or less was far higher than among the thin populations of the south-east and south-west. The old discrepancy between the north and south of England in the matter of rents—reflecting as it does the greater amenities of living in the south and the consequent higher demand and also higher costs obtaining there—has evidently not been eradicated.

Next, in addition to the rise in gross rents of post-war houses there has been, in many places, a rise in the rents charged for pre-war houses. 72 per cent. of the authorities in the PEP's sample do not charge enough rent to cover the expenses of post-war houses; on the other hand about the same proportion charge more than enough to cover expenses on their pre-war houses. Some of the pre-war swings are being made to pay for the post-war roundabouts. 53 per cent. of the authorities were, in fact, found to be meeting their post-war deficit in this way; others were drawing on exhaustible balances in their revenue accounts.

It is worth noting that the average costs of houses in 1949 according to this survey was still rising, in comparison with the Gridwood Committee's estimate for 1947, and so was the average size of house being

built. The average increase in capital cost over the two-years is put at £135, which would add 1s. 11d. a week on to the rent to be found.

Another major economic difficulty of the local authorities is the current cost of repairs. An increase in these from a pre-war £4 9s. to a post-war £9 per house means a further total rent increase of 1s. 9d. a week. As for expenses of management and administration these too must be rising, but the accounting methods of the different authorities are so diverse that it is not possible to say much that is useful about this.

The pamphlet does not quote, as it might well have done, some of the published statistics on this point—the rise in the LCC's repair bill for example, as a proportion of its rental receipts. The rise applies to pre-war properties even more than to post-war, for which the repair bill is at present slight. There is no subsidy from which it can be met, other than the rates themselves, which in turn penalise either (a) the tenants or (b) the private owners of the millions of still older houses that are not in the ownership of the authorities themselves. The acuteness of the problem is becoming worse, for if a substantial share of the burden of rising costs is passed on to the tenants of old property, these tenants will find themselves subsidizing their more fortunate equals who are lucky enough to be council tenants to an even greater extent than before. If, on the other hand, rising rates are "absorbed" by private landlords, they will tend to neglect their own repairs—the cost of which is also rising, and averting another acute problem in respect of rent control. Thus "council housing" cannot be considered alone; it is part of the larger problem.

ATTEMPTED SOLUTIONS

One remedy that the local authorities have been forced to adopt is, as noted above, to increase their rents. This has naturally excited protests, and some agitation against a change; yet the shortage of houses is still so acute that in few cases will applicants on housing lists refuse offers of post-war dwellings on grounds of high rents. And sitting tenants who are aware that they are well housed at a non-economic cost, are likely to become very recalcitrant. But this does not mean that hardship is not caused in many cases. As this pamphlet points out, little is known as to what would be a reasonable proportion of its income for a working-class family to spend on its accommodation; if that proportion is a sixth, then the maximum rent that a family with £6 18s. a week could afford would be 23s.—yet more than one-fifth of the authorities questioned are charging more than this for three-bedroom houses.

Such cases may not be the only ones where hardship is inflicted. There is, of course, another side to the story; many families are over-housed, not only in private dwellings, but in the council houses themselves. Yet it is difficult to see how, without intolerable tests of needs and means, this problem can be resolved. Anomalies which can be ignored when the discrepancies are slight, hardened by degrees into infuriating and almost intricately complicated abuses. This has certainly now happened to the rent problem.

EFFECT OF RATES

Yet another complication is the effect of rates upon gross rents. This problem has been shelved and partly ameliorated by plans for a new valuation of property and by changes in the system of central grants to local authorities. But it is doubtful whether any improvement in rates can be efficient until the great rent muddle has been removed.

The only alternative to this inquisition of tenants is a more moderate survey of needs at the key points; for instance, as the

Kemsley experiment has shown, a careful analysis of incoming tenants' requirements can result in a considerable saving in house-building costs by the simple expedient of providing fewer three-bedroomed houses, and more of the smaller types.

To introduce some economic incentive to tenants not only of council houses, but of all houses so that they do not keep themselves "over-housed" is the first requirement; and equally an economic incentive (instead of the strong disincentives that now tend to operate) to both landlords and local authorities and their tenants to keep properties in a good state of preservation is the second. It should not be impossible to work out systems of rating and rent-charges and income-tax relief that give effect to both these vital principles of policy. But these systems would have to be thought out, in a sense, as complementary to each other. As long as rent, rates and income tax are treated as separately administered aspects of public social policy there is not the slightest hope of any progress; departmentalism, the well-established vice of British administration, will win the day, and the muddle will continue. It is a commentary on the present attitude of administrators that the whole subject of rents charged remains obscure, that published official statistics of the variations in costs and rents are almost wholly lacking, and that such private organizations as PEP on the Labour Research Department (not a Labour Party organization) are at present the only centres where facts from the local authorities on these subjects are systematically collected and analysed.

THE IMMEDIATE CRISIS

Long before a general solution to rent troubles can be found there is bound (in the absence of a general deflation) to be a demand for a new subsidy to satisfy tenants otherwise forced to share the increase in building costs. The figure of £22 per house per annum is not, of course, fixed for all time, and it may be that under pressure the next Government will have to yield to pressure and raise this figure. But this is a solution that can only be accepted for a short time; otherwise history will repeat itself, and reduced building costs will be indefinitely postponed. A far sounder method, and one which may be increasingly adopted, is to provide smaller (not lower standard) houses until the rising trend of wages permits of a more general upward adjustment of rents, following a full-scale investigation of rents.

INFORMATION CENTRE INDEX, 1949

An alphabetical index covering items published during the twelve months ended December 31, 1949, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than February 27, 1950.

Please send me the Information Centre Index for 1949:—

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* Planning : Vol. xvi. No. 308. Jan. 23, 1950.

Announcements

Mr. Ashley S. Ward, who has been chairman of Thos. W. Ward Ltd. since 1941, has resigned from that office. He remains a director of the company and will act in an advisory capacity. He has also been appointed president of the company. Mr. George Wood has been appointed chairman; Mr. Frank R. Stagg, deputy chairman; Mr. H. W. Secker, O.B.E., and Mr. J. Walton, joint managing directors.

Mr. Robert C. Stanley, chairman of the Board of Directors of the International Nickel Company of Canada, Ltd., stated recently that total world consumption of Canadian nickel in all forms for the year 1949 is expected to be about 15 per cent. lower than in 1948, when a new high peacetime record was established. However, because of the very broad diversification of uses of nickel and its alloys in the industrial world and the wide range of their properties, it was expected that consumption would be well maintained during 1950.

Pilkington Brothers, Ltd., of St. Helens, Lancashire, pioneers in the manufacture of many types of structural glass, are to build a factory on the outskirts of Toronto, Canada, for the production of Flat Drawn Sheet Glass. This new factory, it is estimated, will be in production in 1951.

Lieut.-Col. E. Vigor, R.E., has been appointed Managing Director of The Neuchatel Asphalt Co., Ltd., in place of Mr. A. E. Nicholson, who has now relinquished his appointment owing to ill-health but retains his seat on the Board.

Mr. J. Ronald Firth, of the Public Works Department, Hong Kong, is anxious to receive manufacturers' Information Sheets, catalogues and technical literature. He is particularly anxious to receive catalogues

and latest technical information relating to metal windows, sanitary ware, ironmongery, and electric light fittings.

Buildings Illustrated

School at Chingford, Essex. (Pages 193-198.) Architect: H. Conolly, FRIBA, County Architect. General contractors: Chamberlain Industries Ltd. Sub-contractors: Pressed steel frame, metal windows, John Thompson Beacon Windows Ltd.; steel roof deck, bituminous felt roof covering, Ruberoid Ltd.; sanitary fittings, John Boldings & Sons, Ltd.; external facing bricks, Milton Hall (Southend) Brick Co. Ltd.; fair faced internal bricks, sand lime from Stonehenge Brick Co. Ltd. and B. Finch & Co.; ironmongery, James Gibbons, Ltd.; classroom floors, Catesby's (Corbularin) Ltd.; corridor floors, Prodorite Ltd.; ablution floors, Carter & Co. Ltd.; administration rooms, Terradura Flooring Co.; cloakroom equipment, Clark Hunt & Co. Ltd.; cold glaze cement internal finish, Modern Surfaces Ltd.; wash fountains, Wm. Farrer, Ltd.; pavings, Metropolitan Concrete Co. Ltd.

Correction

In a leading article on December 1 we stated that "a large area of floor space (at Olympia) is not strong and can only bear limited weights." We have been asked to point out that, in fact, less than 10 per cent. of the ground floor area has any limitation and that even on this percentage there is ample margin for all but the most exceptionally heavy exhibits.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to *The Architects' Journal* 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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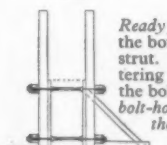


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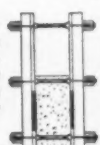
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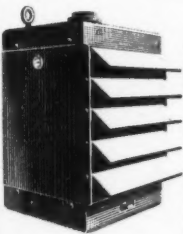
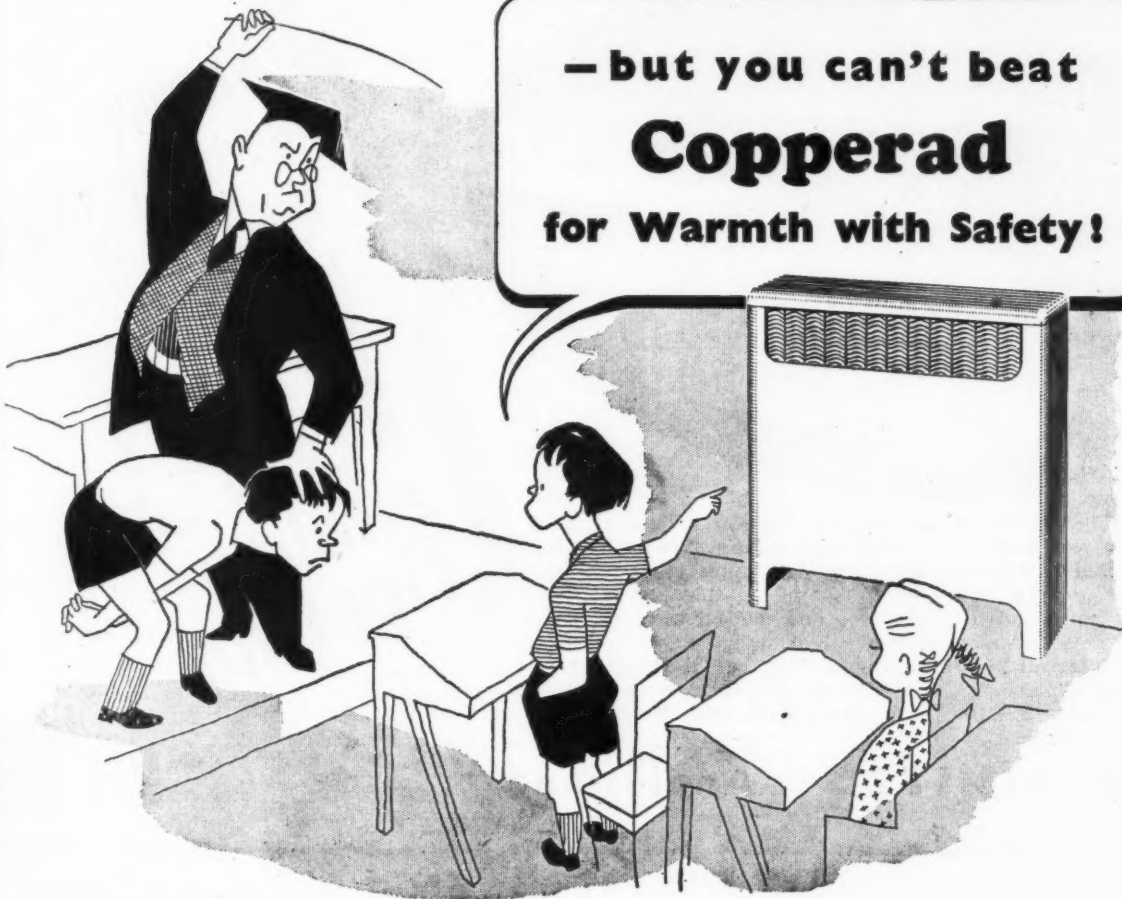
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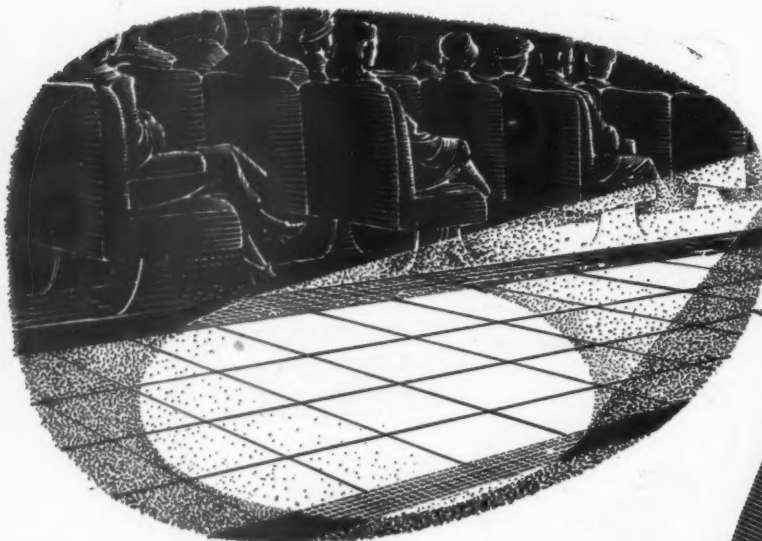
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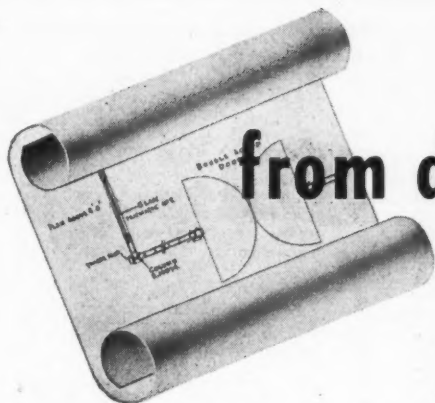
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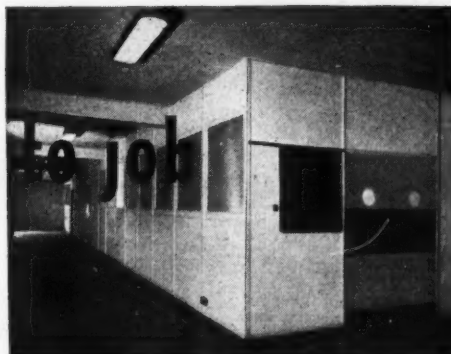
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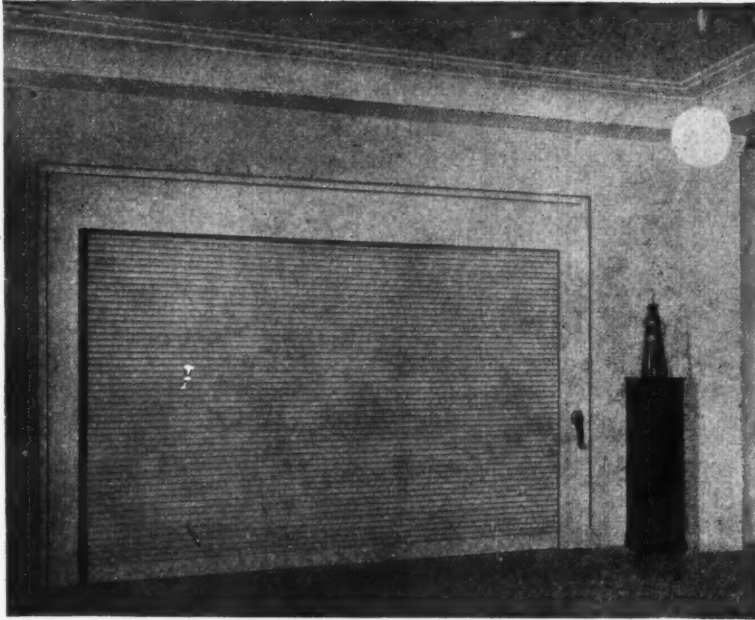
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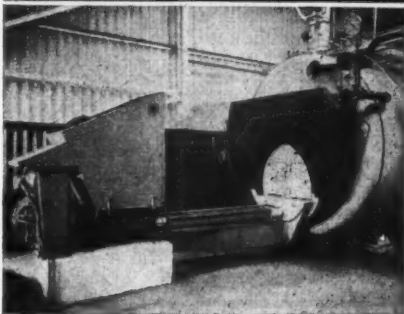
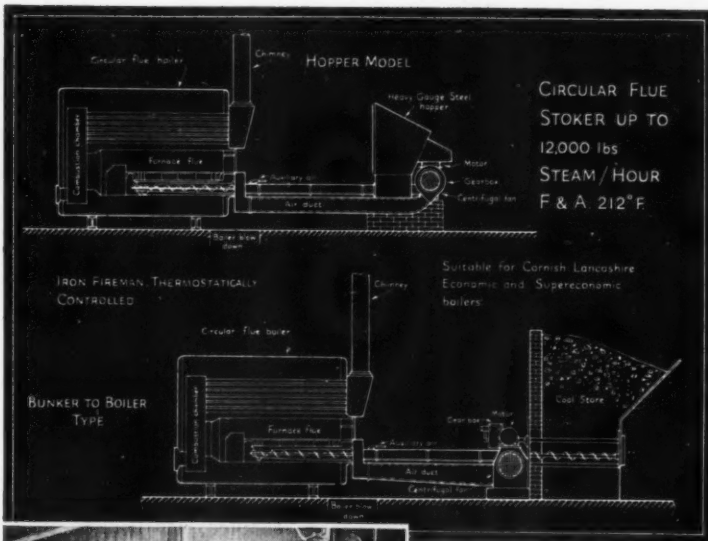
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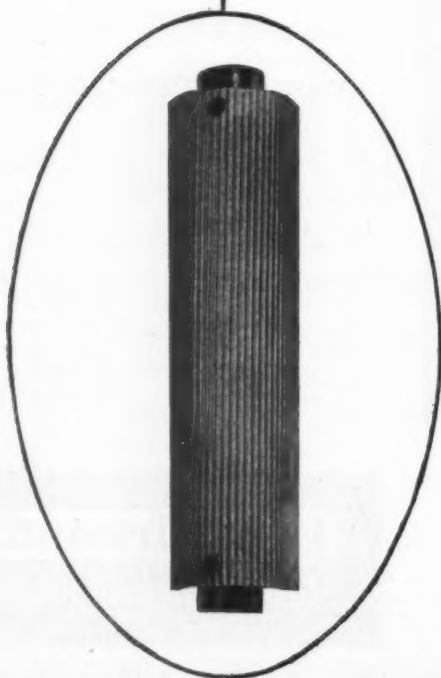
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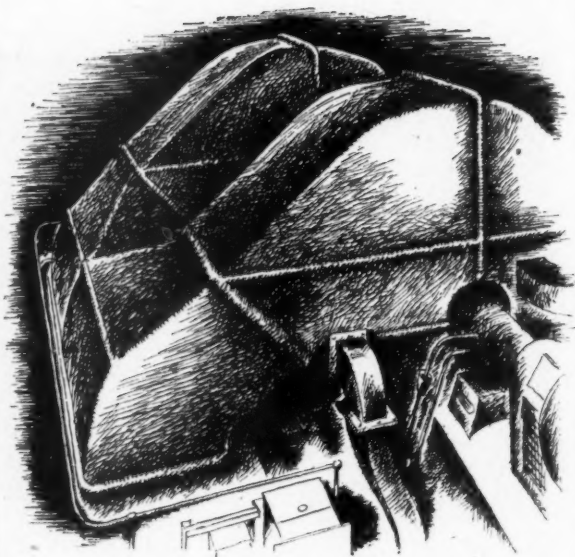
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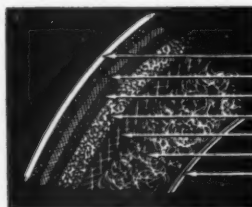
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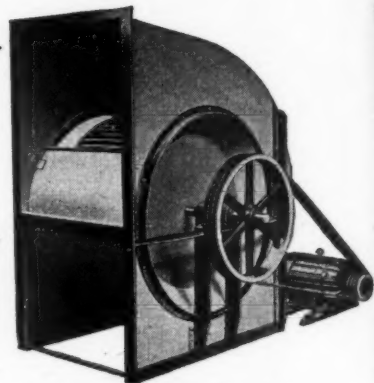
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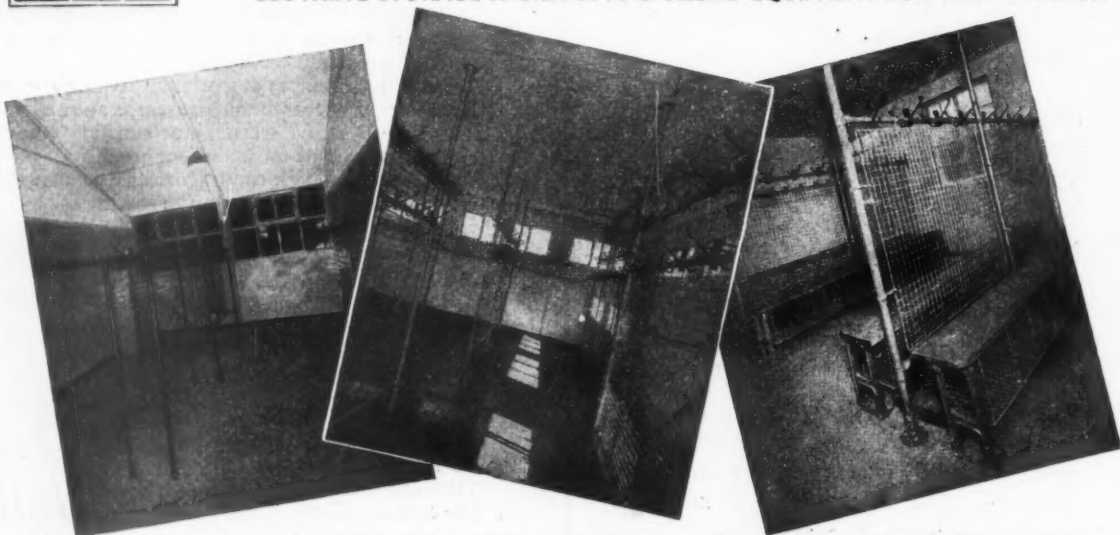
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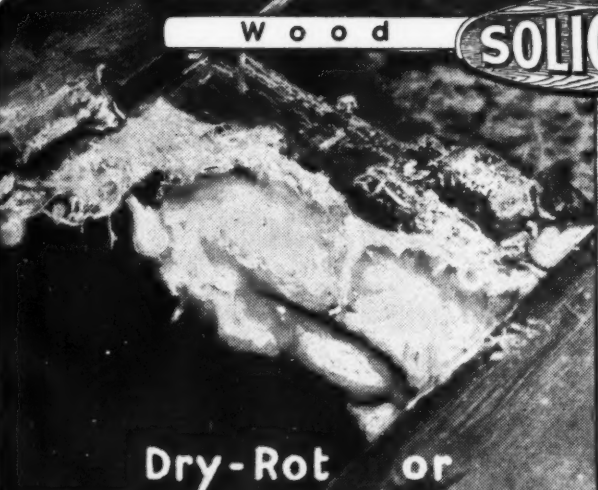

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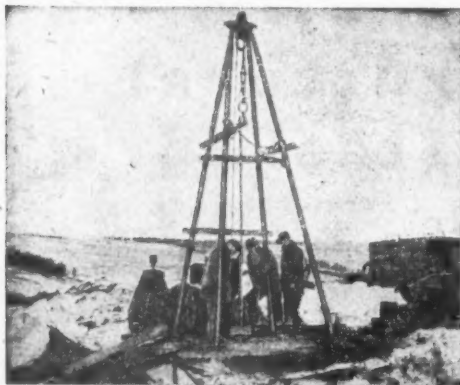
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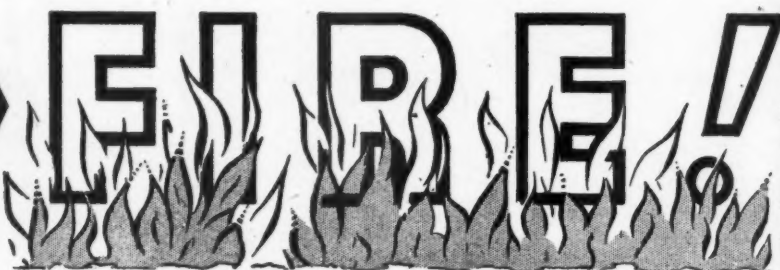
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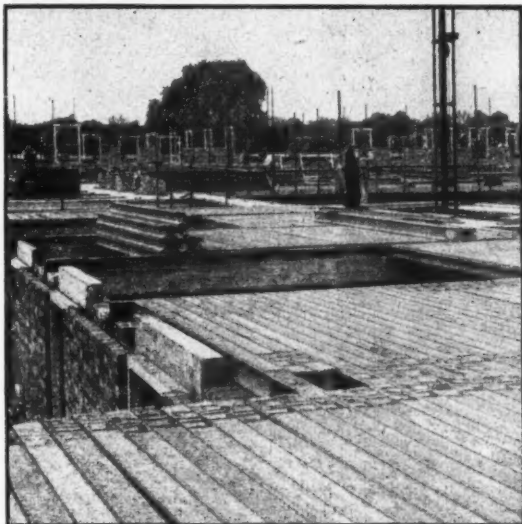
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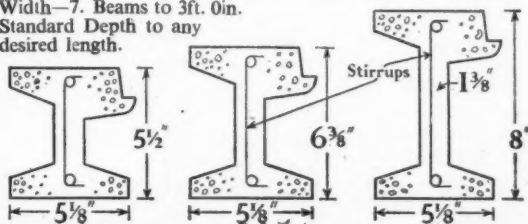
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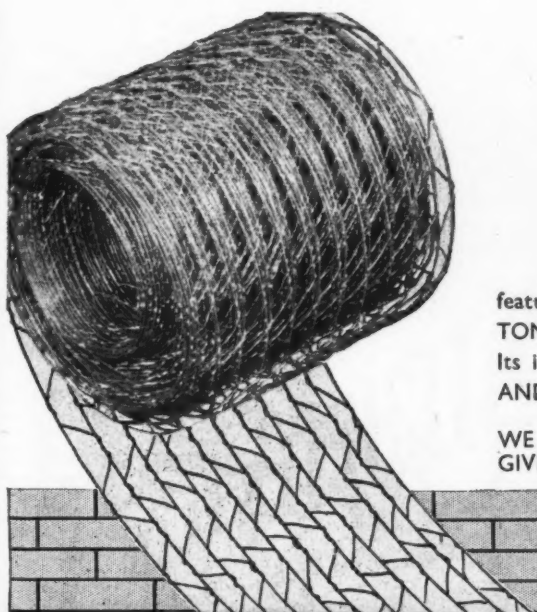
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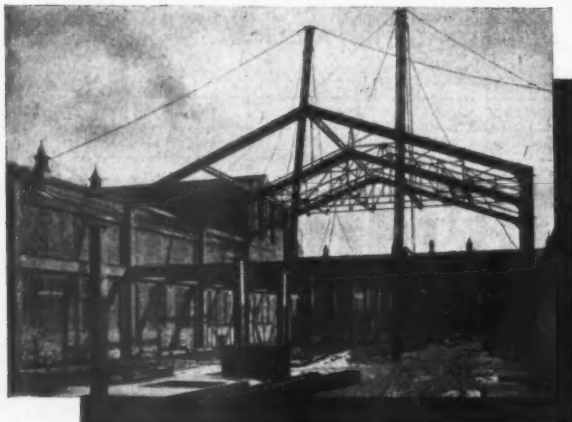
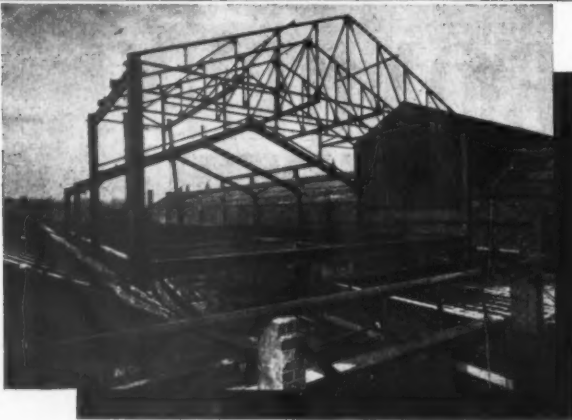


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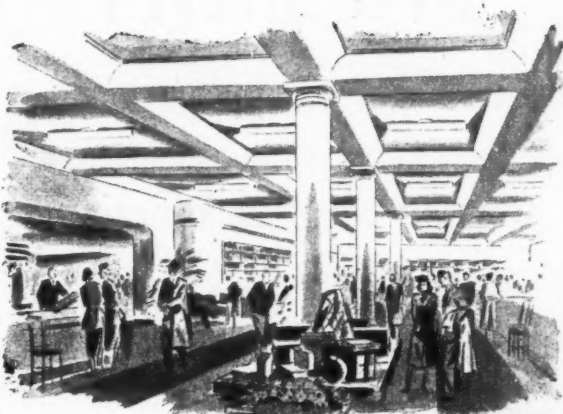
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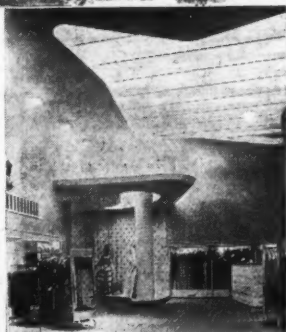
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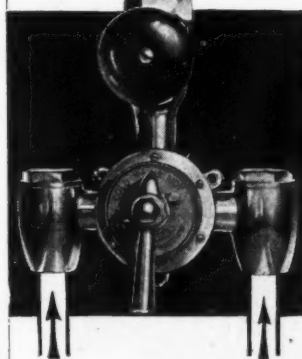
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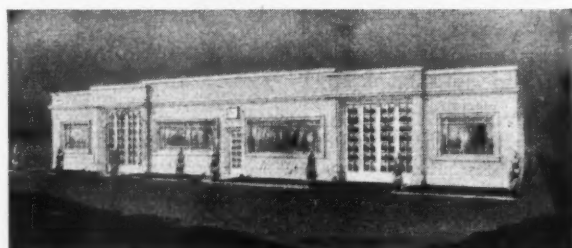
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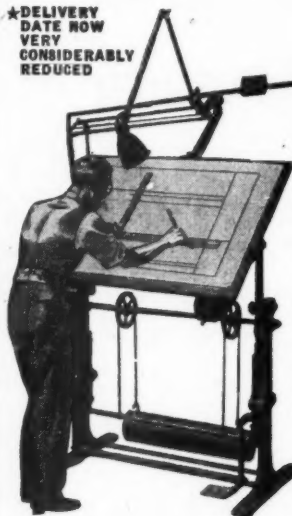


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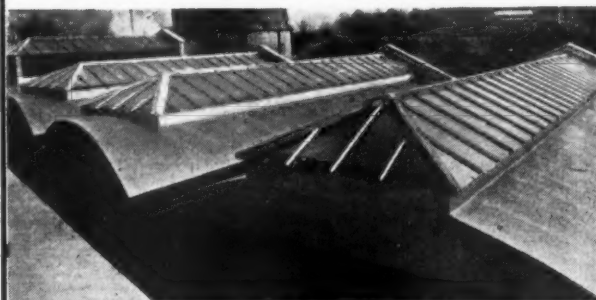


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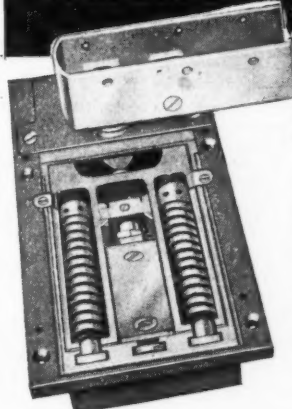
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County Architect.

County Offices, Lincoln. 3344

EBBW VALE URBAN DISTRICT COUNCIL. ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointment on the permanent staff of the Architect's Department:—

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £520-£570 per annum.

Applicants should be Members of the Royal Institution of British Architects or the Royal Institution of Chartered Surveyors (Building Sub-Division), and should have had good general architectural experience, not necessarily in Local Government offices. In addition a working knowledge of quantities would be an advantage.

The Architect's Department has a full programme of work covering Housing Estates (Houses, Flats and Sheds), Slum Clearance and Reconstruction Schemes, New Civic Centre, Layout of new parks and open spaces, and general Municipal building work.

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

Applications, stating age, qualifications and experience, together with the names of two referees to whom reference may be made, should be delivered to the undersigned not later than Saturday, the 25th day of February, 1950, and endorsed on the envelope "Architectural Assistant."

Canvassing, directly or indirectly, will disqualify.

R. E. HERBERT,

Clerk of the Council.

District Council Offices, The Walk

Ebbw Vale, Mon.

26th January, 1950. 3339

SURREY COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, Grade VI, at a commencing salary of £595 per annum, rising by annual increments of £20-£25 to a maximum of £660 per annum, plus London allowance of up to £50 per annum, according to age.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division) and who have an adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts.

Full details of past and present appointments should be given.

The appointment will be subject to the provisions of the Local Government Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, full details of experience, and accompanied by copies of three recent testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, to reach him not later than the 17th February, 1950.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful applicant will be required to make his own arrangements in this direction.

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-on-Thames. 3349

NORTH THAMES GAS BOARD. ARCHITECTURAL ASSISTANTS required,

preferably experienced in the design, alteration and maintenance of Industrial buildings, and capable of preparing surveys, working drawings, details and specifications. Salary range £480-£550 per annum, according to age and qualifications. The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age and full particulars of training and experience, should be sent to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9646. 3196

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE. CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).

(b) SENIOR ASSISTANT ARCHITECTS. Salary £520 per annum, rising to £570 per annum (A.P.T., Grade V).

(c) ASSISTANT ARCHITECTS. Salary £480 per annum, rising to £525 per annum (A.P.T., Grade IV).

Applicants for appointments (a) and (b) should be Associates of the Royal Institute of British Architects, and must have had experience on Housing, General Architectural work and/or Educational buildings.

Applicants for appointment (c) should have passed the Intermediate Examination of the Royal Institute of British Architects.

The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, particulars of training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON,

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.

23rd January, 1950. 3288

BOROUGH OF HORNSEY. ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the following temporary appointment:—

Architectural Assistant, Grade VI (A.P.T. Division of the National Scale), at a salary of £595-£660 per annum, plus London weighting allowance of £30 per annum. Commencing salary according to experience.

Candidates should preferably be Associate Members of the Royal Institute of British Architects.

Applications, stating age, present and previous appointments, technical training, qualifications, experience, etc., together with the names of three referees, must be delivered to Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Hornsey Town Hall, N.8, not later than the 13th February, 1950.

Canvassing, either directly or indirectly, will disqualify.

H. BEDALE,

Town Clerk.

Town Hall, Crouch End Broadway, N.8.

24th January, 1950. 3301

COUNTY BOROUGH OF SOUTH SHIELDS. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for permanent appointments as Architectural Assistants in the Borough Engineer's Department.

The appointments will be superannuable, and salary will be paid up to A.P.T., Grade V, according to qualifications and experience, in accordance with the N.J.C. grading decisions.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, South Shields, should be returned not later than noon on Thursday, the 16th February, 1950.

HAROLD ATREY,

Town Clerk.

Town Hall, South Shields.

24th January, 1950. 3327

DURLEY RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with Grade V of the National Scales of Salaries (£520-£570), together with travelling allowance upon the appropriate scale. The appointment will be subject to the National Scheme of Conditions of Service for Local Government Officers and to the Local Government Superannuation Act, 1937. The appointment will be terminable by one month's notice on either side.

Applicants must possess recognised architectural qualifications, and should have had experience in general architectural work, house planning and design including the preparation of working drawings and specifications. Although under the control of the Engineer and Surveyor, the successful applicant will enjoy to some extent the status of a Chief Officer, will not be subject to detailed supervision, and will have scope for exercising initiative.

Housing accommodation will be provided, if required.

Applications, stating age, qualifications, and full details of experience, together with the names and addresses of two persons to whom reference may be made, should be forwarded to the undersigned, to be received not later than the first post on Wednesday, the 22nd February, 1950.

Dated this 24th day of January, 1950, at the Council Offices, Kingshill, Durley, Glos.

H. A. FAYE,

Clerk of the Council.

3356

**GLAMORGAN COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.**
Applications are invited for the following permanent appointments:—
**AT HEADQUARTERS, COUNTY HALL,
CARDIFF.**

(a) **PRINCIPAL PLANNING ASSISTANT (DESIGN).** Grade A.P.T. VIII. Salary £685-£750 per annum.
**AT WESTERN AREA PLANNING OFFICE,
NEATH.**

(b) **GENERAL PLANNING ASSISTANT.** Grade A.P.T. IV. Salary £480-£525 per annum. Applicants for appointment (a) must have had considerable experience in Town and Country Planning, and the candidate appointed will be required to act as joint leader of the development plan team. Candidates must hold a Diploma of Town Planning from a recognised school or university, or have passed the Final Examination of the Town Planning Institute. In addition, the possession of an architectural or other professional qualification would be an advantage. An officer maintaining a home elsewhere and who is unable to obtain suitable accommodation may be granted a lodging allowance of £75 per annum for a period not exceeding six months.

Applicants for appointment (b) should be University Graduates, with at least 2 years' experience in a suitable profession, or have completed indentured articles with a Chartered Architect, Civil Engineer, or Surveyor, or a Planner, and must have passed the Final Examination of the T.P.I., the I.C.E., the I.M.E., or the R.I.C.S. Applicants who have passed the Intermediate Examination only of these bodies will also be considered, but the salary payable will not exceed A.P.T., Grade III (£450-£495 per annum) in such cases.

The appointments are permanent and subject to the National Scheme of Conditions of Service, the staffing conditions of the County Council from time to time in force, and to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, stating age, training, qualifications, experience and present salary, and accompanied by one testimonial, should be sent to the County Planning Officer, Mr. E. John Powell, M.I.C.E., at this address, and received not later than the 20th February, 1950.

A. CLIFFORD WALTER,
Deputy Clerk of the County Council.
Glamorgan County Hall, Cardiff. 3391

**LONDON COUNTY COUNCIL.
ARCHITECTS' DEPARTMENT.**

Applications are invited for positions of **ARCHITECT, Grade III (£550-£700)** and **TECHNICAL ASSISTANTS (up to £580)**, for work on new schools and other buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications. Application forms from the Architect (AR/P/S), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (13) 3155

**COUNTY BOROUGH OF DARLINGTON.
BOROUGH ARCHITECTS' DEPARTMENT.**

Applications are invited for the following permanent appointments:—
(a) **TWO ASSISTANT ARCHITECTS.** Salary Grade Va (£550-£610).
(b) **ONE ASSISTANT ARCHITECT.** Salary Grade IV-V (£480-£570), according to qualifications.

Candidates who have had previous experience on Education and Housing work and are members of the R.I.B.A. will receive preference.

Applications specifying the appointment (a) or (b), together with age, qualifications, present appointment with salary, previous experience with dates, and the names and addresses of three referees, to be sent to E. A. Tornbohm, A.R.I.B.A., A.M.T.P.I., Borough Architect, Central Buildings, Darlington, not later than Monday, 13th February, 1950. 3318

**COUNTY BOROUGH OF GREAT YARMOUTH.
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT.**

Applications are invited for the appointment of Chief Assistant Architect, in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade VII (£635-£710) of the National Conditions of Service. A car allowance of £90 per annum will be paid in connection with this appointment.

Applicants should be Associates of the Royal Institute of British Architects, and must have had considerable experience of design and construction, particularly in relation to housing and public building.

The appointment will be terminable by one month's notice on either side and subject to the provisions of the Local Government Superannuation Act, 1937, and the passing of a medical examination.

Applications, stating age, qualifications and experience, together with the names of three persons to whom reference can be made, should reach me not later than 17th February, 1950.

Canvassing will be deemed a disqualification, and candidates must disclose any relationship to any member of or holder of any senior office under the Council. Candidates who fail to do so will be disqualified, and, if appointed, liable to dismissal without notice.

FARRA CONWAY,
Town Clerk.
Town Hall, Great Yarmouth.
27th January, 1950. 3346

LIVERPOOL REGIONAL HOSPITAL BOARD.
Applications are invited for the following permanent appointments in the Regional Architect's Department, on the Headquarters Staff of the Board:—

(a) **ASSISTANT ARCHITECT,** at a salary in accordance with A.P.T., Grade VI, £596-£660 per annum.

Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience, and ability in design and construction.

(b) **ASSISTANT ARCHITECT (TWO),** at a salary in accordance with A.P.T., IV, £480-£525 per annum.

Applicants should have passed the Intermediate Examination for Associateship of the Royal Institute of British Architects, and must have a good general experience and ability in design and construction.

(c) **ASSISTANT QUANTITY SURVEYOR,** at a salary in accordance with A.P.T., Grade V, £520-£570 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors (Quantities Sub-Division), and should have had considerable experience in a Quantity Surveyor's office in working up, abstracting and billing; also some experience in taking off is essential.

All the above appointments will be subject to the National Health Service (Superannuation) Regulations, 1947/9, and the successful candidates may be required to pass a medical examination.

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, war service, and clearly stating the post applied for, together with the names and addresses of three referees, should be sent to the undersigned at 19, James Street, Liverpool, 2, not later than 16th February, 1950.

VINCENT COLLINGS,
Secretary to the Board.
24th January, 1950. 3350

**NATIONAL COAL BOARD—WEST MIDLANDS
DIVISION.**

ARCHITECTURAL STAFF.
Applications are invited for the following vacancies:—

(1) **TWO ARCHITECTS (Grade II).** Salary scale £450×£25-£700. Candidates must be Associate Members of the R.I.B.A. or equivalent, and should have experience in the preparation of Survey, Sketch Plans, Contract Drawings, Specifications, Site Supervision, etc.

(2) **ONE ARCHITECTURAL ASSISTANT (Grade I).** Salary scale £410×£20-£550. Applicants should be able to prepare Sketch Plans and Working Drawings from rough sketches, and have a good knowledge of construction, and should have passed the Intermediate Examination of the R.I.B.A.

Posts are superannuable.

Selected candidates will be appointed at the minimum of the scales.

Applications, giving age, qualifications, experience, etc., should be made as soon as possible to the

ESTABLISHMENT OFFICER,
National Coal Board, West Midlands Division,
Himley Hall, Dudley, Worcs.

Only those required for interview will be notified. 3345

**CRANBROOK RURAL DISTRICT COUNCIL.
HOUSING ARCHITECT.**

Applications are invited for whole-time ARCHITECT to the Council in connection with the Council's new Housing Schemes. The term of the appointment will, subject to satisfactory service, be for five years, or such longer period as may later be arranged with the Officer.

Applicants (who should not be over 45 years of age) must be Associates of the R.I.B.A., and any other qualifications will be an additional recommendation. Previous experience of supervising and superintending the erection of houses under Contract is essential.

Duties of the appointment are:—
(a) To prepare layouts for site development; plans and types of houses, specifications, and bills of quantities.

(b) To supervise the carrying out of the work under Contract for site development and the erection of the houses, and generally to perform the duties of Architect under the Contracts.

(c) To deal with the final accounts arising under the Contracts in conjunction with the Chief Financial Officer.

The Officer will not be allowed to engage in private practice as an Architect or to undertake private work.

The salary will be at a rate, according to age, qualifications and experience, of between £750 p.a. and £900 p.a., rising, from the commencing salary actually arranged, by five annual increments of £30 p.a. A travelling allowance for the use of the Officer's car on official business will be arranged. The appointment will be determinable by three months' notice on either side.

Housing accommodation will be offered the successful applicant.

Applications, on the form obtainable from the undersigned, and giving the names of three referees, must be received by me, marked "Architect." Application not later than Thursday, 23rd February, 1950.

Canvassing in any form will disqualify.

P. G. BANFIELD,
Clerk to the Council.
Council Offices, Cranbrook.
2nd February, 1950. 3405

**BIRKENHEAD EDUCATION COMMITTEE.
NEW BIRKENHEAD TECHNICAL AND
COMMERCIAL COLLEGE.**
(Estimated Cost £500,000.)

Required **CLERK OF WORKS** to supervise the erection of the New Birkenhead Technical and Commercial College, which will take approximately three years to complete.

The person appointed will also be required to supervise the work nearing completion on the new Bedford Drive School.

The salary will be £650 a year.

Applicants should have had experience as a Clerk of Works and have a thorough knowledge and practical experience of Building Construction, Reinforced Concrete and Steel School Construction, be able to supervise all trades, be capable of setting out all works, and have a thorough knowledge of working to Bills of Quantities and Drawings.

Form of application, which must be returned by the 14th February, 1950, can be obtained by sending a stamped-addressed envelope to the Director of Education, 63, Hamilton Square, Birkenhead.

DONALD P. HEATH,
Town Clerk.
Town Hall, Birkenhead. 3400

**ROYAL BURGH OF ARBROATH.
HOUSING ARCHITECTS' AND TOWN
PLANNING DEPARTMENT.**

Applications are invited for the following appointment in the above department:—
TOWN PLANNING ASSISTANT, Salary Grade A.P.T. V (£520-£570 per annum, consolidated).

Applicants should have had previous experience in the preparation of Planning Schemes under the Town and Country Planning Act, 1947, for Urban Areas.

The successful applicant will be required to pass a medical examination, and will be subject to the provisions of the Local Government Superannuation (Scotland) Acts.

Should the successful applicant be married, housing accommodation will be made available.

Applications, stating age, whether married or single, qualifications present post and salary, previous posts and details of experience, together with copies of two recent testimonials, should be lodged with the undersigned within 14 days of the appearance of this advertisement.

WILLIAM D. SMITH,
Town Clerk.
Town House, Arbroath. 3408

WEST SUSSEX COUNTY COUNCIL.

Applications are invited for the post of **ASSISTANT MASTER**, to teach Architecture at the County School of Art and Crafts, Worthing.

Salary in accordance with Burnham Technical Scale for Assistant Teachers.

Application forms may be obtained from the Director of Education, County Hall, Chichester, on receipt of stamped (2d.) addressed, foolscap envelope, and should be returned within 14 days of the appearance of this advertisement.

T. C. HAYWARD,
Clerk of the County Council. 3413

**CITY AND COUNTY OF THE CITY OF
LINCOLN.**

CITY ARCHITECTS' DEPARTMENT.

Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT**, on A.P. and T. Division, Grade V, of the National Scale of Salaries (£520 to £570), on the established staff of the City Architects' Department.

Candidates should have passed the Intermediate Examination of the Royal Institute of British Architects, and preferably have a good knowledge and experience of Schools or Housing.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Applications, stating age and experience, together with the names of two persons to whom reference may be made, should be delivered to P. F. Burridge, F.R.I.B.A., City Architect, Stamp End, Lincoln, not later than 20th February, 1950.

Canvassing, either directly or indirectly, will disqualify.

J. HARPER SMITH,
Town Clerk.
Town Clerk's Office, Lincoln. 3366
January, 1950.

**BOROUGH OF EALING.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.**

**APPOINTMENT OF ARCHITECTURAL
ASSISTANTS.**

Applications are invited for the permanent appointment of Two Architectural Assistants, in accordance with Grade VI of the A.P.T. Division of the National Joint Council's Scales, at a salary commencing at £595 per annum, and rising by annual increments to £660 per annum, plus £30 London weighting.

Applicants must either be Associate Members of the Royal Institute of British Architects or possess a recognised equivalent qualification. Preference will be given to candidates with Municipal experience.

The Council is unable to provide housing accommodation for the successful candidate.

Forms of application, together with conditions of appointment, may be obtained from the Borough Engineer and Surveyor, Town Hall, Ealing, W.5, and must be returned to me not later than the 27th February, 1950.

E. J. COPE-BROWN,
Town Clerk.
Town Hall, Ealing, W.5. 3377

COUNTY BOROUGH OF ROCHDALE.
SENIOR PLANNING ASSISTANT.
BOROUGH SURVEYOR'S DEPARTMENT.
 Applications are invited for the appointment of a Senior Planning Assistant, at a salary in accordance with Grade VI, A.P.T. Division (£595 to £660 per annum).
 Candidates should have had considerable experience in drafting planning proposals and in planning administration.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and to the selected candidate passing a medical examination.
 It should be clearly understood that the Corporation cannot provide housing accommodation.
 Applications, stating age, qualifications, full particulars of experience, present salary, together with the names of two persons to whom reference may be made, and endorsed "Senior Planning Assistant," must be delivered to the Borough Surveyor, Town Hall, Rochdale, not later than 9 a.m. on Monday, 20th February, 1950.

K. B. MOORE,
 Town Clerk.

Town Hall, Rochdale.
 1st February, 1950. 3394

CITY OF STOKE-ON-TRENT.
CITY ARCHITECT'S DEPARTMENT.
 Applications are invited from suitably qualified persons for the following appointments to the permanent staff—
SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Division, Grade VII, £635-£710.
 The selected applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937.
 Previous experience of Local Government work is not essential.
 Suitable housing accommodation can be made available to the successful candidates.

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Piggott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Tuesday, 28th February, 1950.

HARRY TAYLOR,
 Town Clerk.

Town Hall, Stoke-on-Trent.
 1st February, 1950. 3393

HAMPSHIRE COUNTY COUNCIL.
 Applications are invited for the appointment of ASSISTANT ARCHITECT on the established staff of the County Architect's Department (Grade VII). Salary £635-£710 per annum, and the appointment will be subject to one calendar month's notice on either side.
 Candidates should be Registered Architects and Associates of the Royal Institute of British Architects, with good general experience in design and construction of public buildings.

The appointment is pensionable, and will be subject to a satisfactory medical report. In approved cases, the County Council are prepared to assist newly appointed members of the staff to meet removal and other expenses.
 Applications should be made on forms to be obtained from the County Architect, The Castle, Winchester, to whom they should be returned not later than Saturday, the 18th February, 1950.

G. A. WHEATLEY,
 Clerk of the County Council.

The Castle, Winchester.
 27th January, 1950. 3372

SCOTTISH SPECIAL HOUSING ASSOCIATION, LIMITED, which is a non-profit making Company, Limited, by guarantee, and financed by H.M. Treasury, invite applications for the appointment of ARCHITECT, Grade I, £700-£85-£900. The post is superannuable under the Local Government Superannuation (Scotland) Act, 1937. Forms of application, with full particulars, can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12. Applications should be submitted within 14 days of the appearance of this advertisement. 3376

GLOUCESTERSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the appointment of Assistant Architects, in the County Architect's Department, at a salary on A.P. and T. Grade V, £520-£570 per annum. Successful candidates will be eligible for promotion to A.P. and T. Grade VI, according to experience.
 Candidates should be qualified members of the R.I.B.A., with good general experience in design and construction of public buildings, including schools.

Applicants should state whether or not they possess a motor car and/or hold a driving licence. The appointment, which is terminable by one month's notice on either side, will be subject to the Local Government Superannuation Act, 1937, and the candidates, before appointment, will be required to pass a medical examination.
 Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be sent to S. E. Urwin, Esq., F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Wednesday, the 15th February, 1950, endorsed "Appointment of Assistant Architects."

GUY H. DAVIS,
 Clerk of the County Council.

27th January, 1950. 3365

BIRMINGHAM REGIONAL HOSPITAL BOARD.

Applications are invited for the appointment of JUNIOR ENGINEERING ASSISTANT, in the Architect's Department. Salary scale A.P.T., III (£450-£515 to £495). Applicants should have experience in the preparation of plans, designs and calculations for heating, hot water supply and steam installations. Preference will be given to candidates who have passed, or are preparing for, the A.M.I.H. and V.E. examination or its equivalent. The appointment is subject to the National Health Service (Superannuation) Regulations, 1947 to 1949, and is terminable by one month's notice in writing on either side. Applications, stating age, qualifications, previous and present appointments, with the names and addresses of two referees, should be sent to the Secretary, Birmingham Regional Hospital Board, 10, Augustus Road, Birmingham, 15, not later than 25th February, 1950. 3371

SOUTH-WESTERN REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.
 Applications are invited for the post of SENIOR ARCHITECTURAL ASSISTANT to the Board. Applicants must be Members of the Royal Institute of British Architects, and have had considerable experience in hospital design. Salary in Grade A.P.T., VII, £635 per annum, rising by annual increments of £25 to £710.
 The appointment will be subject to the provisions of the National Health Service (Superannuation) Regulations, and the successful candidate will be required to pass a medical examination.

Applications, setting out qualifications and experience, and giving names and addresses of three referees, should reach the Secretary of the Board, at 5/6, Cotham Lawn Road, Bristol, 6, not later than the 20th February, 1950. 3354

COUNTY BOROUGH OF SOUTH SHIELDS.
APPOINTMENT OF PLANNING ASSISTANTS.
 Applications are invited for the permanent appointment of Planning Assistants in the office of the Borough Engineer.

The appointment will be superannuated, and salary will be paid up to A.P.T., Grade VI, according to qualifications and experience, in accordance with the N.J.C. grading decisions. Canvassing will be a disqualification, and applicants must disclose any relationship to members or senior officers of the Council.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, South Shields, should be returned not later than Monday, the 27th February, 1950.

HAROLD AYRE,
 Town Clerk.

Town Hall, South Shields.
 28th January, 1950. 3365

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
 Applications are invited for the appointments of ARCHITECTURAL ASSISTANTS, between the Grades of II, III and IV, with salaries ranging from £420-£525 plus London allowance of up to £30 per annum, according to age. Selection of candidates for individual grades will be in accordance with experience.

Applicants must be of good general training and give full details in their applications, and preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of British Architects.
 The appointments will be subject to the provisions of the Local Government Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 18th February, 1950.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDLEY AUKLAND,
 Clerk of the Council.

County Hall, Kingston-upon-Thames. 3357

MINISTRY OF WORKS.
 Vacancies exist for ARCHITECTURAL ASSISTANTS at Risley (Warrington), Windscale (Cumberland) and Manchester, for drawing office duties in connection with Research Establishments. Candidates should be of British nationality, and have had a recognised Architectural training and fair experience.
 Salary: Architectural Assistants, £283 per annum at age 21, with £20 additional for each year above that age to a maximum of £495 per annum.
 Leading Architectural Assistants, £470-£595 per annum.

Although the posts are not established, some of them have long term possibilities and competitions are held periodically to fill established vacancies. Hostel accommodation for men at reasonable cost is available at Risley and Windscale.

Vacancies also exist in London and other Regional Offices throughout the country. Apply in writing, stating locality desired, age, training and experience, Chief Architect, WG10/AN, Ministry of Works, Abell House, John Islip Street, London, S.W.1. 3397

MANCHESTER REGIONAL HOSPITAL BOARD.

Applications are invited for the undermentioned permanent appointments in the Architect's Department of the Board's Headquarters staff. National Health Service conditions and superannuation apply to each post.

(a) SENIOR ARCHITECTURAL ASSISTANT. Salary A.P.T., VIII (£685-£760).

(b) ARCHITECTURAL ASSISTANT. Salary A.P.T., VI (£595-£660).

(c) JUNIOR ARCHITECTURAL ASSISTANT. Salary A.P.T., IV (£480-£525).

(d) JUNIOR QUANTITY SURVEYOR. Salary A.P.T., IV (£480-£525).

(e) JUNIOR LAND SURVEYOR. Salary A.P.T., IV (£480-£525).

(f) ADMINISTRATIVE ASSISTANT. Salary A.P.T., IV/V (£480-£570).

The commencing salary for this post will be fixed according to qualifications and experience.

Applicants for posts (a) and (b) must be registered Architects and have passed the Final Examination of the R.I.B.A. They should have had wide experience in planning and construction, and in the preparation of working drawings for important hospital buildings.

Applicants for post (c) should be of R.I.B.A. Intermediate Examination standard, and have had good architectural experience.

Applicants for post (d) should be of R.I.C.S. Intermediate Examination standard (Quantities Sub-Division), and should have experience in taking off and working-up Bills of Quantities and the settlement of final accounts.

Applicants for post (e) should have reached Intermediate Examination standard of the R.I.C.S., or equivalent, and should have experience in surveying, levelling and valuation.

Applicants for post (f) should possess sound administrative ability, and a knowledge of shorthand is desirable. Experience in the work of an Architect's Department will be considered an advantage.

Applications, stating age, qualifications and experience, together with the names and addresses of not more than three referees, should be received by the undersigned not later than 18th February, 1950.

J. GIBBON,
 Secretary of the Board.

1, North Parade, Parsonage Gardens, Manchester, 3. 3380

ARCHITECTURAL ASSISTANT required by major industrial organisation, with head office in the West End of London. Applicants should be A.R.I.B.A., age 25-35, and experienced in the preparation of surveys, sketch plans, working drawings, in connection with industrial buildings; also able to supervise work in progress and prepare reports in regard to same.

Apply in writing, stating age, qualifications, full detail of experience, and salary required, to Dept., M.52, Box No. A4140, A.K. Advtg., 212a, Shaftesbury Avenue, London, W.C.2. 3414

BOROUGH OF EDMONTON.
ARCHITECT'S DEPARTMENT.

The Borough Council require an ASSISTANT (Grade A.P.T./VI, £595-£620 (2) and £25 (1) to £660 per annum), plus London weighting.

Candidates should be Associates of the R.I.B.A., or equivalent, and have had experience in Housing, Flats, and General Building work.

Full particulars, forms of application and conditions of service from the undersigned, to whom completed applications must be returned not later than 17th February, 1950.

H. BACKHOUSE,
 Town Clerk.

Town Hall, Edmonton, N.9.
 3rd February, 1950. 3384

FLINTSHIRE COUNTY COUNCIL.
 Applications are invited for the following appointments in the County Architect's Department—

(a) ASSISTANT ARCHITECT (two vacancies). Salaries according to qualifications and experience, up to Grade A.P.T., VIII (£685 per annum, rising to £760 per annum).

(b) QUANTITY SURVEYOR (two vacancies). Salaries according to qualifications and experience, up to Grade A.P.T., VIII (£685 per annum, rising to £760 per annum).

Applicants for (a) should be Registered Architects, and preferably Associates of the Royal Institute of British Architects, and should have had good experience in the Architect's office of a Local Authority, and have a sound knowledge of the design and construction of buildings for local authority services.

Applicants for (b) should be Members of the Royal Institute of Chartered Surveyors (Quantity), and should be capable of preparing Bills of Quantities, Estimates, Measuring Up, and dealing with Contractors' accounts for large contracts, and should preferably have had good experience in the office of a Local Authority.

The appointments will be subject to (a) the National Scheme of Conditions of Service, as modified by the County Council, (b) the provisions of the Local Government Superannuation Act, 1937, and (c) a satisfactory medical examination.

Applications will be considered from registered disabled persons.

Forms of application obtainable from the undersigned.

Closing date 27th February, 1950.

W. HUGH JONES,
 Clerk of the County Council.

County Buildings, Mold. 3415

STEVENAGE DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons for the temporary appointment of CLERK OF WORKS, to supervise the erection of 12 Flats and Ancillary Buildings at Stony Hall, Sish Lane, Stevenage (Architects, Messrs. Yorke, Rosenberg and Mardall), at a salary of £600 per annum.

The duration of the contract is likely to be 18 months to two years, and the appointment will be terminable by one month's notice on either side. While, in the first instance, this appointment is for the duration of one contract only, it may lead to a permanent appointment for a suitable candidate.

The selected candidate will be required to contribute to a Local Government Superannuation Fund, or an insurance scheme.

Relationship to any member of the Corporation or staff must be disclosed by applicants.

Canvassing, directly or indirectly, of members of staff of the Corporation will disqualify.

Forms of application may be obtained from the Chief Administrative Officer, Stevenage Development Corporation, Aston House, Aston, near Stevenage, and should be returned not later than 26th February, 1950. 3389

WILLENHALL URBAN DISTRICT COUNCIL.

HOUSING ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL STAFF.

Applications are invited for appointments to the Architectural Staff of a recently established Architect's Department. Appointments will be made in A.P.T. salary Grades I-V, and will be subject to one month's notice on either side and to the terms of the National Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, full details of training and experience, and giving two referees, should be sent to R. T. Chappelle, A.R.I.B.A., Housing Architect, Town Hall, Willenhall, not later than 20th February, 1950.

Canvassing will disqualify.

JOHN R. RIDING.

Clerk of the Council.

Town Hall, Willenhall. 3388

COUNTY BOROUGH OF BURY.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Borough Engineer's Department. Applicants must have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent. Salary A.P.T., II (£420-£465); A.P.T., III (£450-£495), or A.P.T., IV (£480-£525), according to experience.

The appointment is 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 referees, must reach me not later than the 24th February, 1950.

EDWARD S. SMITH.

Town Clerk.

Municipal Offices, Bank Street, Bury. 3382
31st January, 1950.

NORTHERN IRELAND HOUSING TRUST.

Applications are invited for the post of ASSISTANT ARCHITECT, on the salary scale £500-£750. The commencing salary will be determined by experience and qualifications.

Applicants must be fully qualified and experienced.

Preference will be given to ex-Service candidates.

Particulars regarding these appointments and forms of application (which must be completed and returned not later than Monday, 27th February, 1950), may be obtained from The General Manager, Northern Ireland Housing Trust, 5, Donegall Square South, Belfast. 3381

COUNTY BOROUGH OF ROCHDALE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Borough Surveyor's Department—

(1) SENIOR ASSISTANT ARCHITECT (A.P.T. Grade VA).

(2) ASSISTANT ARCHITECT (A.P.T. Grade V).

The salaries are in accordance with the National Joint Council's Scales, and are—

(1) £250, rising to £610 per annum.

(2) £220, rising to £570 per annum.

Applicants must be Registered Architects, and in the case of (1) have passed the Final Examination of the R.I.B.A. They should have a thorough knowledge of architectural work, with practical experience in the design of public buildings of all types.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, and to the selected candidates passing a medical examination. Canvassing is prohibited, and candidates must disclose whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications and full particulars of experience, together with the names of two persons to whom reference may be made, and endorsed "Senior Assistant Architect" or "Assistant Architect," must be delivered to the Borough Surveyor, Town Hall, Rochdale, not later than 9 a.m. on Saturday, the 11th March, 1950.

K. B. MOORE.

Town Clerk.

3386

COUNTY BOROUGH OF NORTHAMPTON.

DEPARTMENT OF BOROUGH ARCHITECT AND TOWN PLANNING OFFICER.

APPOINTMENT OF TOWN PLANNING ASSISTANT, GRADE A.P.T., V (£520-£570).

Applications for the above permanent post, stating age, qualifications, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving the names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 16th February.

Applicants should hold a qualification in either Town Planning, Architecture or Surveying, and should have a good knowledge of modern planning technique. The successful applicant will be required to work on survey, social and general architectural problems arising from the preparation of the Development Plan and on redevelopment schemes for the Central Area.

Canvassing will disqualify.

C. E. VIVIAN ROWE.

Town Clerk.

3378

COUNTY BOROUGH OF BLACKBURN.

ARCHITECTURAL ASSISTANT (GRADE VIII).

Applications are invited for the post of Senior Architectural Assistant, on the permanent staff of the Borough Engineer, on Grade VIII of the National Scale of Salaries, *viz.*, £685-£765 per annum.

Applicants must be registered Architects and have had considerable experience in the design and construction of school buildings. Preference will be given to Associates of the R.I.B.A.

Sympathetic consideration to the provision of housing accommodation will be given.

Applications, endorsed "Senior Architectural Assistant," with copies of recent testimonials, should be submitted to the Borough Engineer and Surveyor, Town Hall, Blackburn, by Friday, 24th February.

CHAS. S. ROBINSON.

Town Clerk.

3358

Partnership and Financial

6 lines or under, 10s.; each additional line, 1s. 6d.

JUNIOR PARTNERSHIP offered to young Associate in busy West Riding Office. Write, stating age, training, and experience, to Box 3387.

Architectural Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

ARCHITECTURAL ASSISTANTS, with sound experience in design and construction, required immediately; capable of preparing working drawings, details and specifications for industrial and commercial projects; salary commensurate with qualifications. Apply to Mackintosh, Beecroft & Partners, 11, Orchard Street, Bristol. 1. 3230

SENIOR ARCHITECTURAL ASSISTANT required by MacKeith, Dickinson & Partners, Blackpool; Final R.I.B.A. standard. Apply, stating age, experience, qualifications and salary. 3285

ARCHITECTURAL ASSISTANT. Inter. R.I.B.A. standard; good prospects. Box 3284.

ARCHITECTURAL ASSISTANT required; preferably experienced in design of industrial buildings and capable of preparing surveys, working drawings and details. Write, stating age, education, experience, salary required, Men's Employment Dept., Cadbury Brothers, Ltd., Bournville. 3304

ILFORD, LIMITED.

ARCHITECTURAL ASSISTANTS.

Chief Staff Architect's Department require Architectural Assistants, to Intermediate standard of R.I.B.A. The work, which is concerned with factories, offices and laboratories in the Home Counties, is both varied and interesting.

The Department is located in a country house at Havering, near Romford. A pension and life assurance scheme is in operation, and meal facilities are available. Suitable applicants may qualify for staff appointment.

Write, stating age, training, experience and salary required, to The Chief Staff Architect, Ilford, Limited, Romford, Essex. 3319

ARCHITECTURAL ASSISTANTS (Senior and Junior) required by Ronald Ward & Partners, 33, St. George's Drive, S.W.1. Telephone Victoria 5531, 0603, 5310. 3328

ILFORD, LIMITED.

ASSISTANT ARCHITECT.

Chief Staff Architect's Department require an Assistant Architect; preference given to Associates of the R.I.B.A.; the work, which is concerned with factories, offices and laboratories in the home counties, is both varied and interesting.

The Department is located in a Country House at Havering, near Romford. A pension and life assurance scheme is in operation and meal facilities are available.

Applications in writing, stating age, experience and salary required, to the Chief Staff Architect, Ilford, Limited, Romford, Essex. 3338

ARCHITECTURAL ASSISTANT required by Gollins, Melvin & Partners, A./A.R.I.B.A.; capable working drawings; salary £400-£500; office experience essential; five-day week. Telephone Museum 0883 for appointment. 3329

ASSISTANT required in busy Berkshire office with work in all parts of the country; an opportunity for a man with initiative and drive to show his capabilities; good prospects for a capable man. Apply, with full particulars of experience and salary required, to Box 3342.

ARCHITECTURAL ASSISTANT required in Maidenhead for large Practice of London and Provincial work; applicants must be capable of supervising work and conversing with by-laws. Reply, with particulars of experience and salary required, to Box 3343.

EXPERIENCED ARCHITECTURAL ASSISTANTS, preferably A.R.I.B.A., required at Rugby; basic salary scale equivalent Local Authority; staff superannuation scheme in line with Local Authority; profit sharing scheme; variety of experience private practice. Apply first place, stating age, experience, qualifications, and salary required, The Grenfell Baines Group, 10, St. Matthew's Street, Rugby. 3340

FIRST-CLASS ASSISTANT required immediately in Cork, Ireland; salary £9-£14 per week, according to ability and experience; large varied practice, and possible permanency for the right type of man; pleasant working conditions and lower income tax. Apply Box 3395.

EDWARD ARMSTRONG & FREDERICK MACMANUS, F.R.I.B.A., of 19, Manchester Square, W.1, require SENIOR and INTERMEDIATE ARCHITECTURAL ASSISTANTS; office experience essential. 3353

MIDLANDS. — ARCHITECTURAL ASSISTANTS wanted for private office; one Senior or semi-Senior, with experience of Industrial Buildings; one Junior, preferably with same, but not essential; good salaries. Please write Box 3355.

ASSISTANT, Intermediate standard, with some office experience, required; small general practice, London; varied and interesting work alternate Saturdays; salary by arrangement. Box 3359.

ARCHITECTURAL ASSISTANTS required. Intermediate to Final standard, in busy office, with all-round practice; very good prospects for suitable applicants. Send details of age, experience, training and present salary, to Naylor, Sale & Widdows, St. Mary's Gate, Derby. 3367

ARCHITECTURAL ASSISTANT, recently qualified from wholesome school of architecture, required for permanent appointment, with opportunities for interesting experience. Harry S. Fairhurst & Son, 55, Brown Street, Manchester, 2. 3368

ARCHITECTURAL ASSISTANT, with about 3 years' experience, required to work under Senior in busy office; permanent post, with variety and interest for ambitious man. Harry S. Fairhurst & Son, 55, Brown Street, Manchester, 2. 3369

ARCHITECTURAL SENIOR ASSISTANT, with about 7 years' experience, required to take charge of Industrial, Commercial or Hospital jobs; interesting work in busy office, and plenty of scope for man with initiative. Harry S. Fairhurst & Son, 55, Brown Street, Manchester, 2. 3370

ASSISTANT, with good office experience, required for Housing and General Practice; about £400 p.a. C. H. James, R.A., F.R.I.B.A., 5, Bloomsbury Street, W.C.1. 3374

ARCHITECTURAL ASSISTANT, with previous office experience and up to Intermediate standard, required for an office with varied general practice; able to work up schemes and details under supervision; salary by arrangement. Apply Herbert Ward & Partners, Architects and Surveyors, 4, Bute Street, South Kensington, S.W.7. Telephone KENSINGTON 8826. 3379

WANTED immediately, in office of Architect dealing with domestic work for London Housing Company, ARCHITECTURAL ASSISTANT, of Inter. R.I.B.A. standard; able to prepare designs and working drawings from sketches; salary £400 to £600 per annum, according to experience and capabilities. Write Box 3390.

ARCHITECT'S ASSISTANT required in London office for Schools project; high standard of draughtsmanship and sound knowledge of construction essential. Write, stating experience, qualifications and salary required, Box 3360.

SOUTH BANK RESTAURANT, 1951.—Experienced ASSISTANT required immediately to assist for three or four months in preparation of working drawings; ability to detail rapidly essential. Apply, giving particulars, telephone number, salary required, to Leonard Manasseh, A.R.I.B.A., 20, Buckingham Street, Strand, W.C.2. Tel.: Temple Bar 0658. 3381

ARCHITECTURAL ASSISTANT required for Bank Architect's office in Edinburgh; good training and sound knowledge in the preparation of working and detailed drawings essential; permanent situation. Apply, in writing, stating age, experience, etc., to Box No. 567, Keith & Co., Advertising Agents, Edinburgh. 2411

REQUIRED, as Service Inspector, an active **STRUCTURAL** or **CIVIL ENGINEER**, who has had considerable experience in responsible supervising capacity in the erection of Reinforced Concrete Structures, preferably with some design experience; will be required to travel extensively in the British Isles, but must live in the London area; attributes required are agreeable personality, sound judgment on erection problems, and able to write concise factual reports. Write, giving full details and salary required, to Box A.J.660, at 191, Gresham House, E.C.2. 3396

SENIOR and **Intermediate ARCHITECTURAL ASSISTANTS** required; interesting and varied work. Apply, stating age, experience, and salary required, to Farmer and Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 3399

ASSISTANTS urgently required; interesting work, including large housing projects; Senior Assistants must have had good practical experience of architectural work, and should preferably be Associates R.I.B.A.; Juniors will be accepted down to Intermediate standard if capable; applicants should state age, qualifications and experience. A. H. Gardner, F.R.I.B.A., 11, Eaton Road, Coventry. 3402

ASSISTANT required in busy country Architect's office; progressive position for man interested in Agricultural and Domestic work; Inter. standard or above, and capable in preparation of working drawings and details. Smith-Woolley & Co., Architects, Collingham, Newark, Notts. 3403

ARCHITECTURAL ASSISTANT, up to R.I.B.A. Intermediate standard, for small, busy office in South-East London. Box 3406.

DAVID STOKES, F.R.I.B.A., 32, Victoria Street, S.W.1 (Abbey 2491), requires one **JUNIOR ARCHITECTURAL ASSISTANT**, of Intermediate standard, for work on schools. 3410

Architectural Appointments Wanted

EDINBURGH, LOTHIAN OR BORDERS.—**ARCHITECTURAL ASSISTANT**, 3 years' school training, Inter. R.I.B.A., 18 months' office experience, requires position in any of above areas; working for Finals. Box 456.

ARCHITECTURAL AND SURVEYING ASSISTANT (Student R.I.C.S. Building Sub-Section) seeks position in Midlands or Southern Counties; competent draughtsman; Cambridge-Bedford area preferred. Box 458.

JUNIOR ASSISTANT (20), 3 years' office experience (in third year of evening course), requires position in London office. Box 457.

SURVEYOR, Registered Architect, for many years both Secretary and Assistant to Ecclesiastical Surveyor, requires similar appointment with Estate Architect or Maintenance Surveyor. Box 459.

ARCHITECTURAL ASSISTANT seeks responsible position; car driver; Final standard R.I.B.A.; used to all classes of work; last 5 years specialised in Industrial and Commercial projects; used to carrying out work from sketch plans to final accounts; salary by arrangement. Box 460.

REGISTERED ARCHITECT, naturalised, over 20 years' experience, last 10 years in England, able designer, knowledge of construction, desires position offering scope for initiative and responsibility in design; London area; salary by arrangement.—Box 3398.

Other Appointments Vacant

4 lines or under, 5s.; each additional line, 1s. 6d.

INTELLIGENT and enthusiastic, young man, with some knowledge of building construction and materials, wanted for unusually interesting selling job, mainly in London (full-time). Write, with full particulars of age, training, experience, salary required, to Box 366.

CONTRACTS MANAGER required by well-known Specialist Building Firm to organise and build up Contract Department; experience estimating and control essential; excellent opportunity for man of technical and administrative ability. Apply in first instance to Box 377E.

DRAUGHTSMEN wanted; used to Metal Windows and Brakepress work. Apply Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 2141

REPRESENTATIVE required by an old-established firm manufacturing Metal Windows; internal partitioning, etc., for London and the Home Counties; must be thoroughly experienced, and have full knowledge of the trade; salary £1,000 p.a. and commission, plus expenses. Full particulars in strict confidence to Box 3409.

FOREMAN (General) required for London; experienced in building high class Houses. Apply by letter, stating qualifications, John Heagerty, Ltd., 36, Walpole Street, S.W.3. 3404

ESTIMATORS wanted; used to Brakepress work. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 2143

MANAGER required for London head office of old-established Terrazzo Contractors; must possess sound experience of trade, be competent estimator, able take-off quantities, conduct relevant correspondence, etc. Write full particulars of experience, salary required, to Box 3287.

JUNIOR ARCHITECTURAL DRAUGHTSMAN required for Industrial Concern near Maidstone, Kent. Write, stating qualifications, Box 3305.

REPRESENTATIVES required by large and old-established firm of Paint Manufacturers, to call on Architects, Municipal Authorities, etc., in Midlands and North; must be well educated, and previous experience in paint industry and of this type of work an advantage. Write, giving age and full details, to Box 3307.

DETAIL DRAUGHTSMAN required for Architect's London office; salary according to qualifications. Write Box 3361.

ESTIMATOR required by Persian Gulf Oil Company; should be A.R.I.C.S., and have 5 to 10 years' experience in taking off quantities and estimating; experience of mechanical and electrical estimating, and knowledge of costing an advantage, though not essential; age about 35; salary according to age and experience, but not less than starting £910, tax free; kit allowance. Write, giving brief details age, experience, etc., and quoting £975, to Box "K.C.", c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2. 3348

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DUPLICATING.—All Duplicating and Type-writing requirements undertaken—experienced service offered for Bills of Quantities, Specifications, Estimates, etc.; moderate terms. Price list on application from The Woodford Duplicating and Typewriting Agency, 3, Chigwell Road, South Woodford, E.18. W.A.N. 0241-6106. 3276

CHARTERED ARCHITECT (43), University qualified, desires change; seeks responsible position with scope in London; extensive first-class experience in large-scale modern Housing, Commercial and Industrial schemes; complete charge. Box 3294.

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A.R.I.B.A. (35), now holding senior official appointment, seeks permanent and responsible position with private Architect; Hampshire area, or near; small general practice preferred, or branch office of larger concern. Please write Box 3299.

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	PAGE		PAGE		PAGE
Accrington Brick & Tile Co., Ltd.	lxiii	Galve (Wire Netting), Ltd.	lvii	Mumford Bailey & Preston, Ltd.	
Adams, Robt. (Victor), Ltd.	lxix	Gent & Co.		National Federation of Clay Industries, The	xxxv
Allied Builders	lxix	Gillott, Joseph, & Sons, Ltd.		North British Chemical Co., Ltd.	lxviii
Anderson Construction Co., Ltd.	lxviii	Greenwoods & Airvac Ventilating Co., Ltd.	ii	Ohmlite Installations, Ltd.	xl
Anderson, D., & Son, Ltd.	ii	Griffiths Bros. & Co. (London), Ltd.	viii	Parkinson Stove Co., Ltd., The	lxviii
Ashwell & Nesbit, Ltd.	xxv	Hall, J. & E., Ltd.	vii	Patchett & Co.	lxix
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Fordham Pressings, Ltd.	lxiii			Zinc Alloy Rust Proofing Co., Ltd.	lxix

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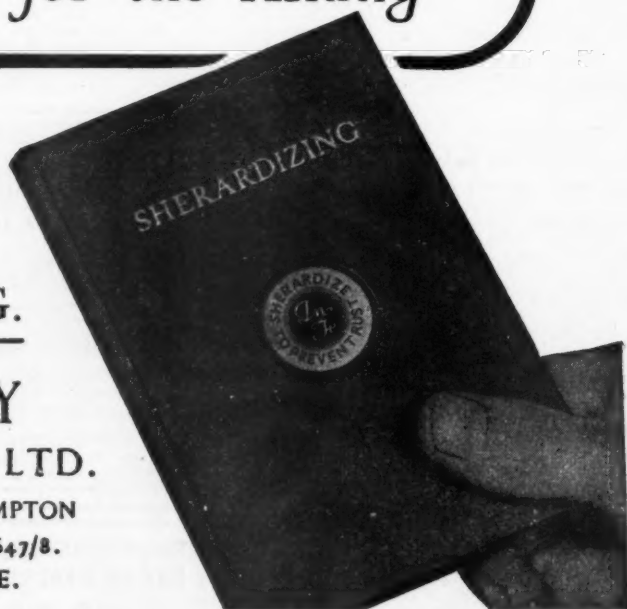
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xcx

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vii

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liii

liii

liii

xcii

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xcii

liii

liix

xcvii

lxxx

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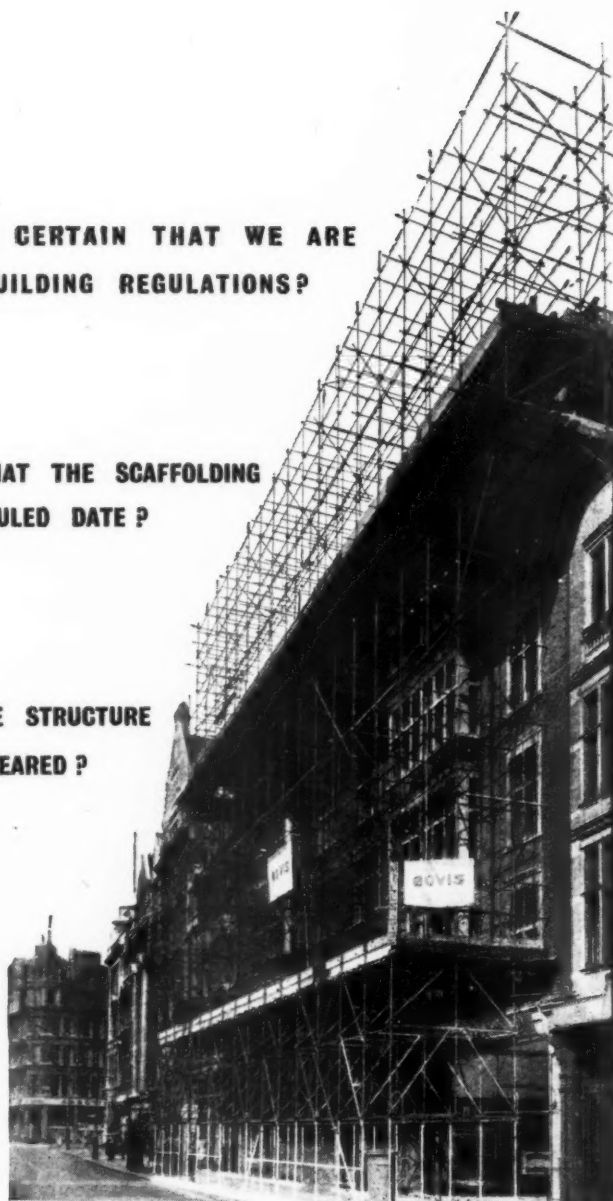
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