

# THE ARCHITECTS' JOURNAL



## Standard contents

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

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I 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, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
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. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
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. 28, Sackville Street, W.1.	Regent 3613
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
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
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
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 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577

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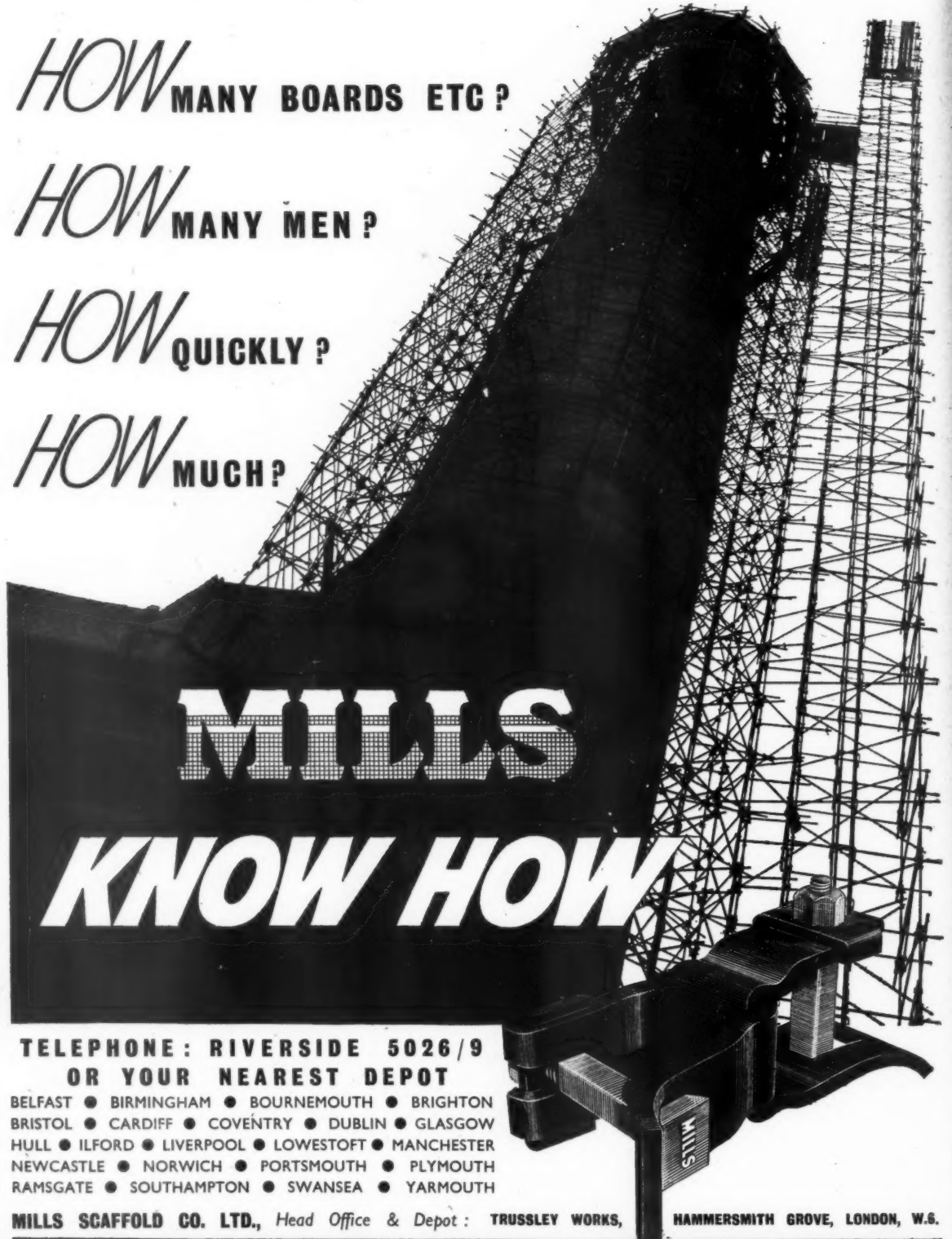
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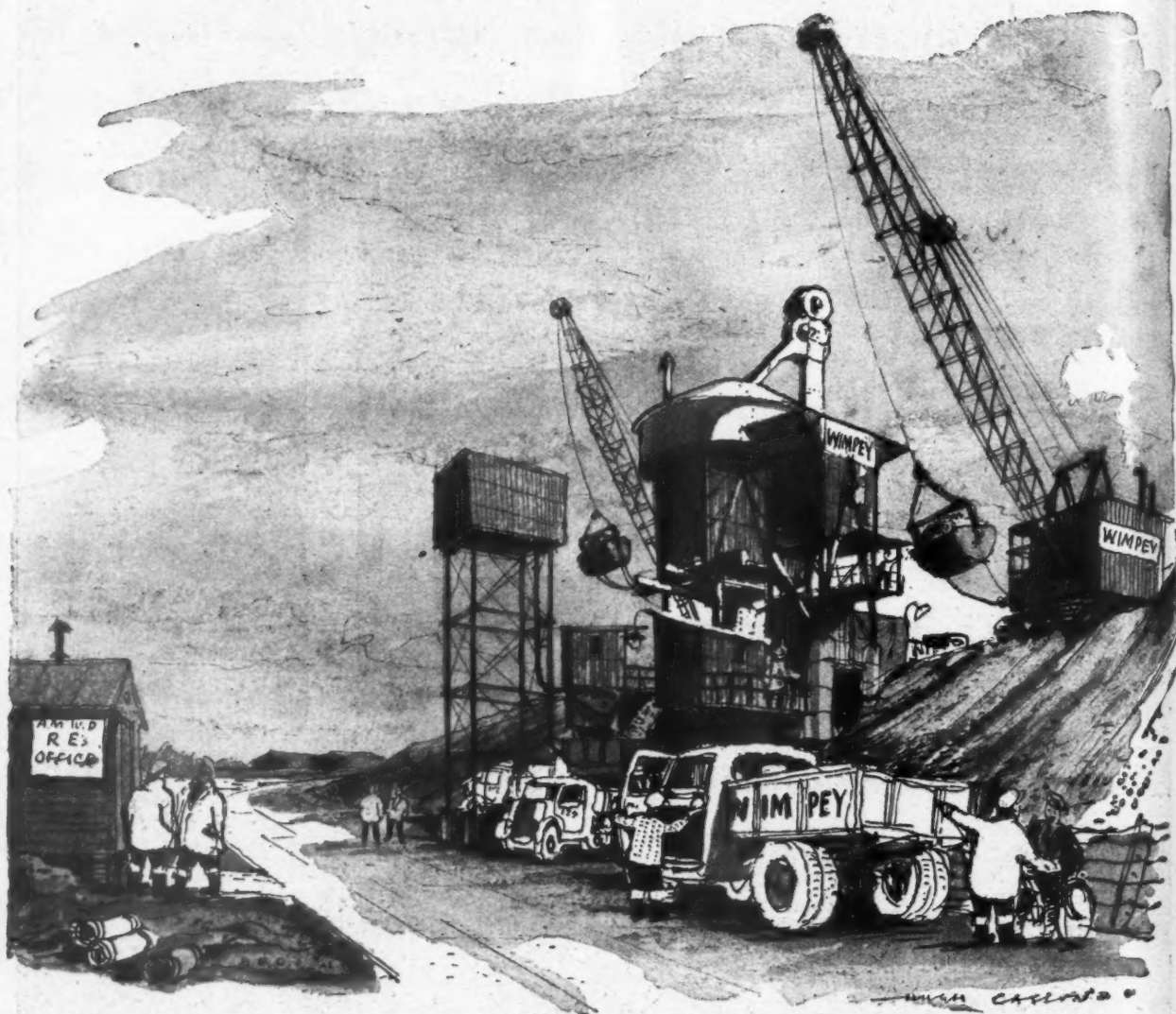
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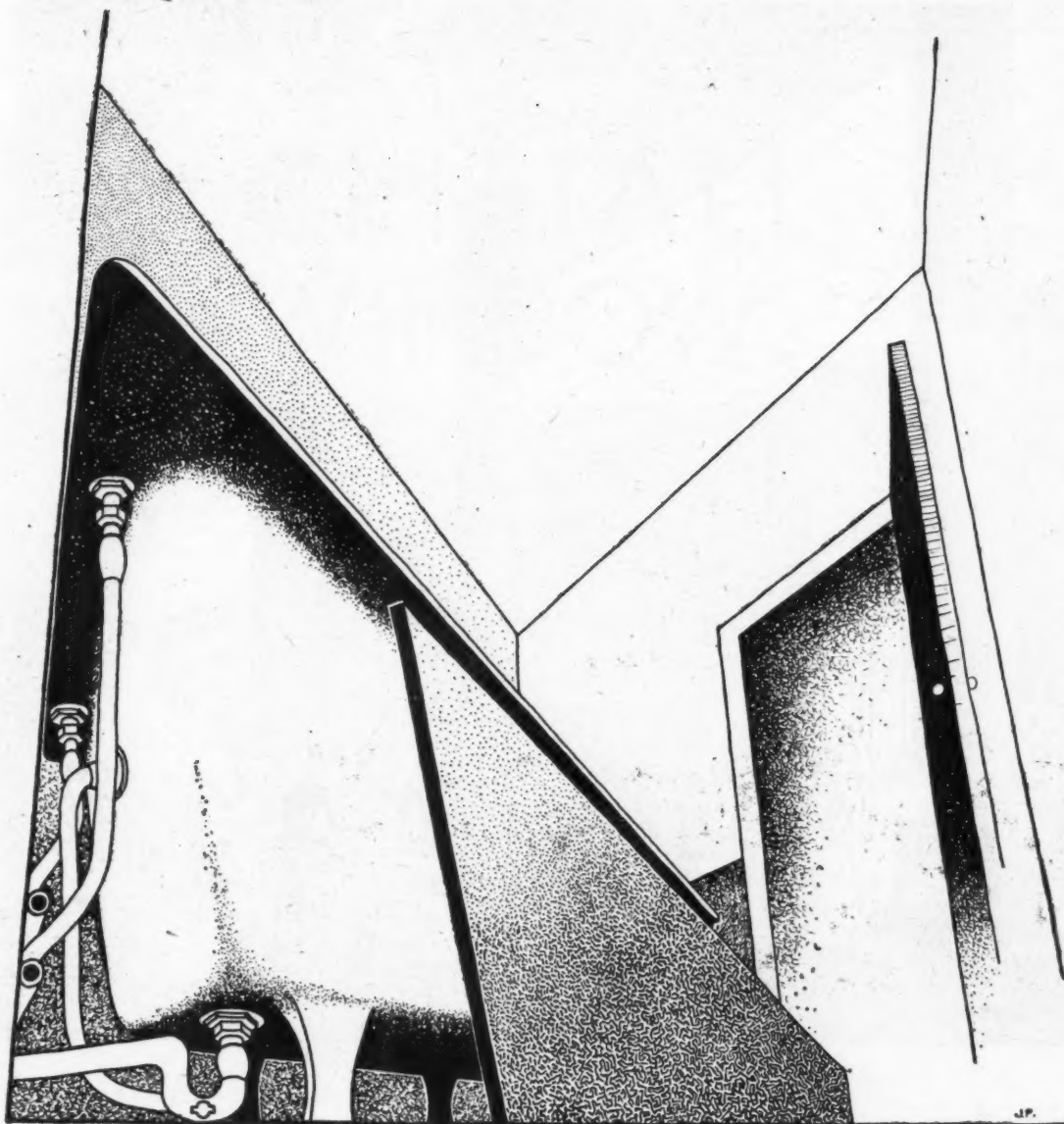
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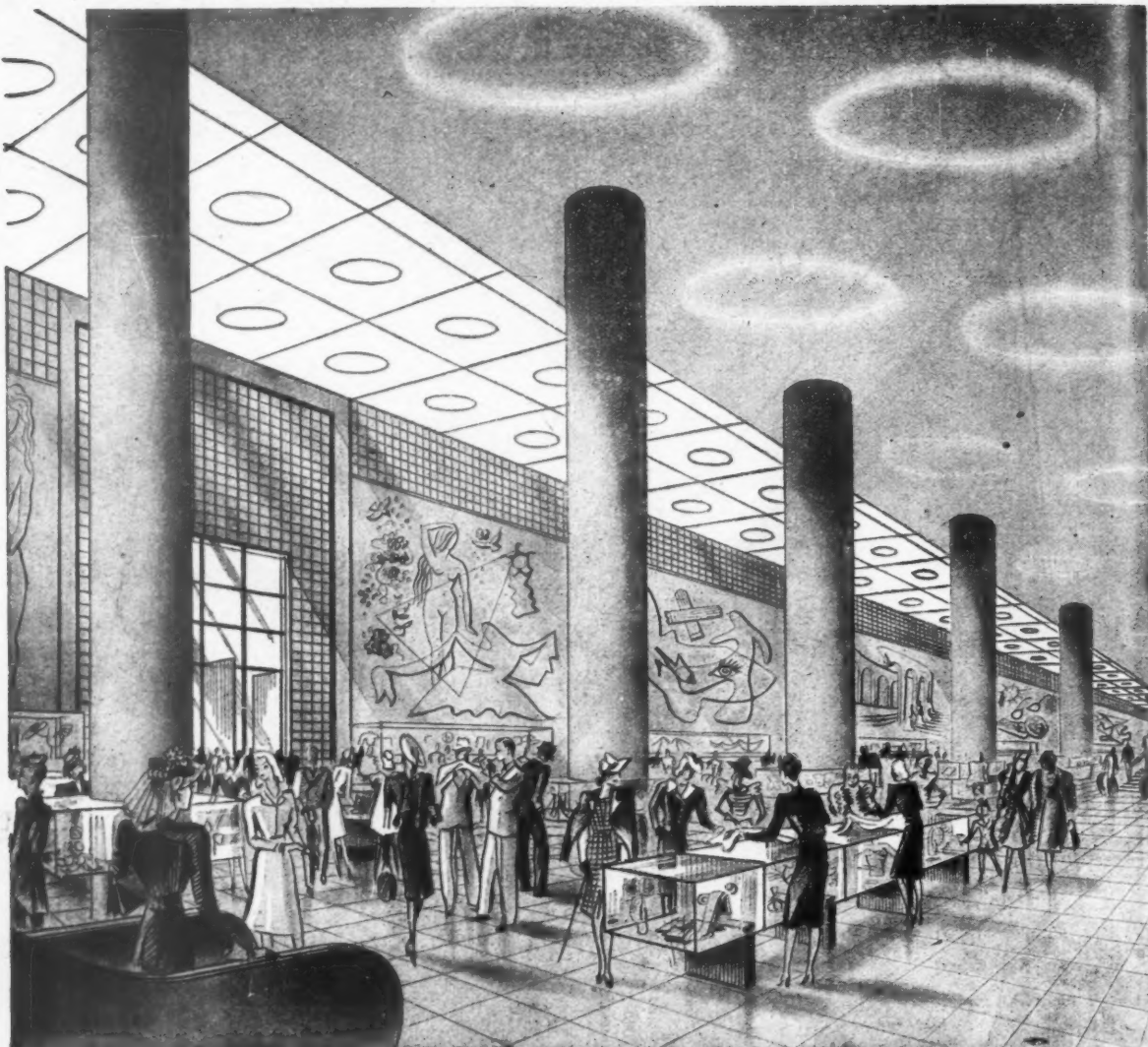
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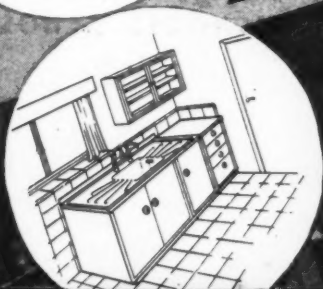
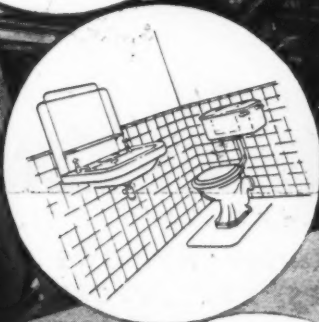
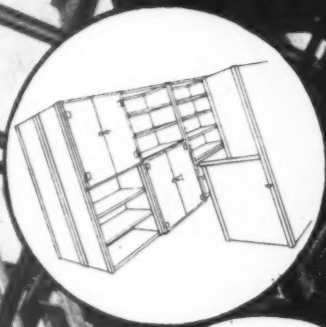
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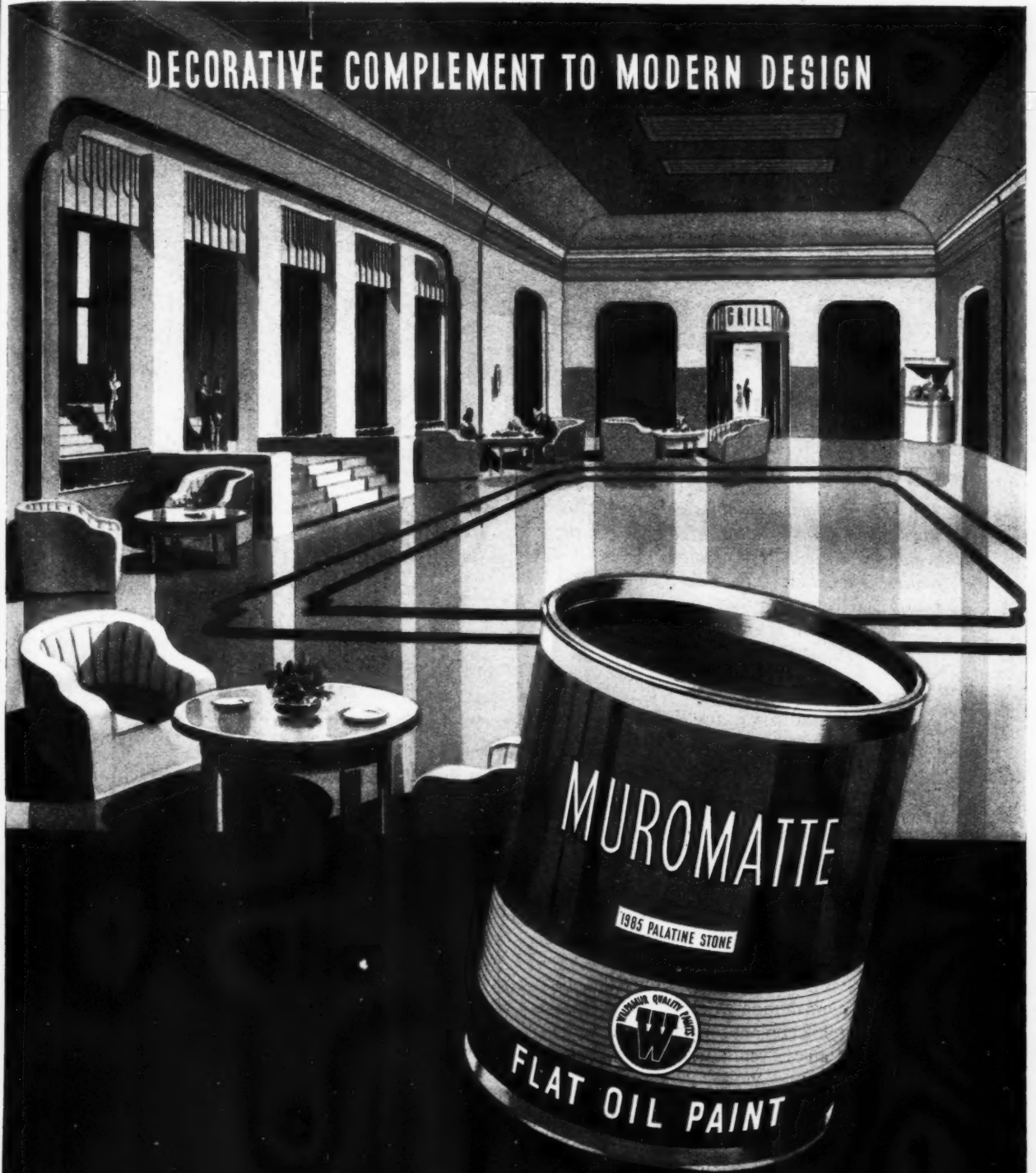
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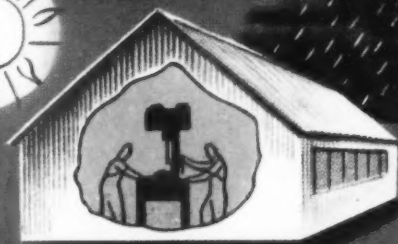
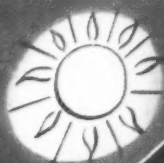
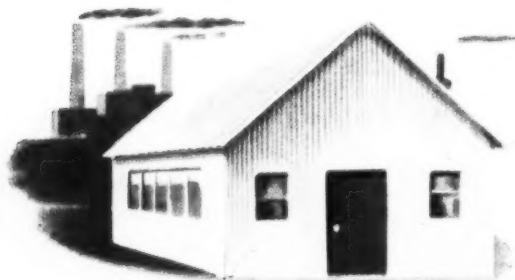


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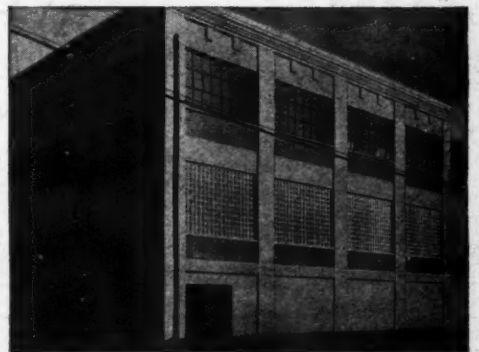
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## POTTERY THROUGH THE AGES · NO. 17



## ENGLISH TIN-GLAZED POTTERY

The art of making tin-glazed pottery was practised in Ancient Babylon. Its development can be traced from Persia to North Africa, and thence through Spain, Italy and the Netherlands to England, where it was introduced about 1550 by Flemish potters.

The Southwark and Lambeth districts of London became the first important centres for making "gallyware", as it was then called. Tin from Cornwall, fused with lead oxide and glass, was used to produce the special opaque white glaze or enamel which, at its best, gave the ware a surface somewhat resembling Chinese porcelain—although the body beneath was an ordinary porous earthenware. The ware was fired, then glazed and painted before being fired a second time. Painting on the friable, absorbent glaze demanded great skill and certainty of touch, but—com-

pared with earlier English pottery—the tin-glazed ware offered far greater possibilities for the use of bright colours, especially blues, greens, purple, red, orange and yellow.

From about 1628 onwards, wine bottles, posset pots, plates, dishes, mugs and drug jars of a distinctive English type were produced in London, Bristol and Liverpool. But the influences on English design and decoration of Flemish pottery, Rhineland stoneware, Italian polychrome maiolica and, above all, of Chinese Ming blue and white porcelain are clearly to be traced.

In the latter part of the 17th century, interchanges of pottery craftsmen between England and Holland took place, and many Dutch potters from Delft settled in Lambeth. Our illustration, based on an old painting by J. Laporte,

shows the arrival of some of these. The horse ferry between Lambeth and Millbank is seen in the foreground and, on the Lambeth side of the river, several potters' kilns.

All English tin-glazed wares eventually became known as delftware—although this type of pottery was being made in Lambeth long before Delft itself became famous. Most of the English delftware was made for practical use, but large dishes or "chargers" were sometimes used for decorative purposes, painted with biblical scenes, royal portraits, coats of arms, floral designs and geometrical patterns. After the introduction of cream-coloured earthenware by Josiah Wedgwood about 1765, the demand for the delightfully painted but expensive delftware gradually declined and the technique had practically disappeared by the end of the century.



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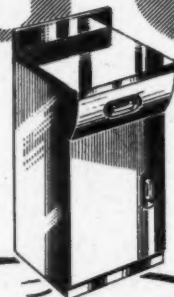
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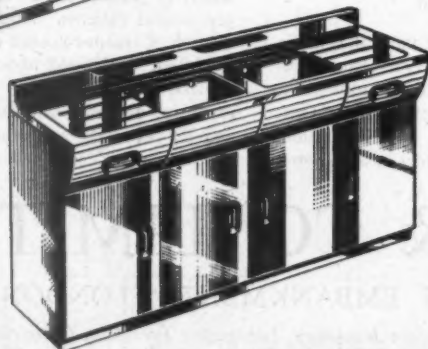
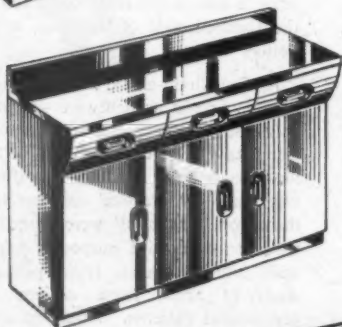
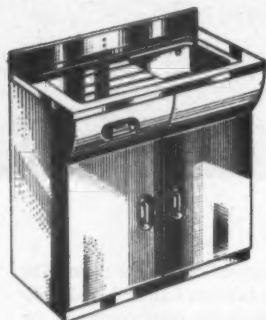


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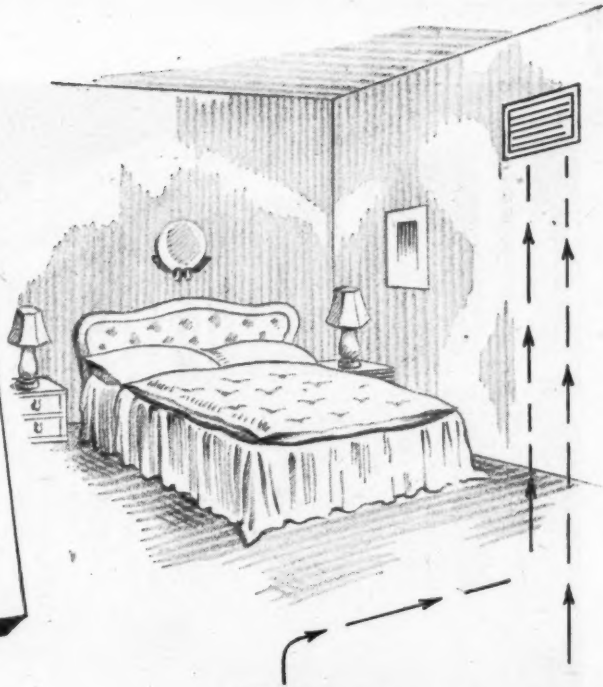
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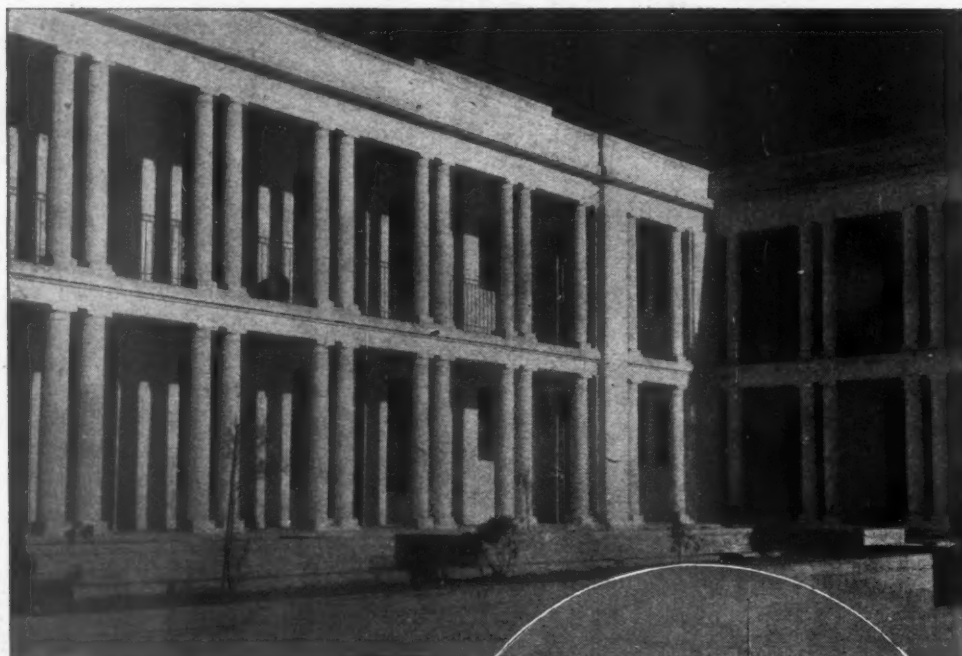
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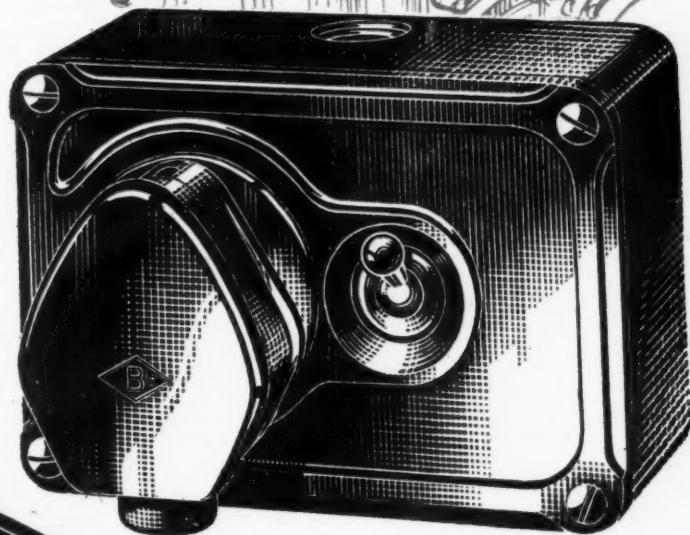
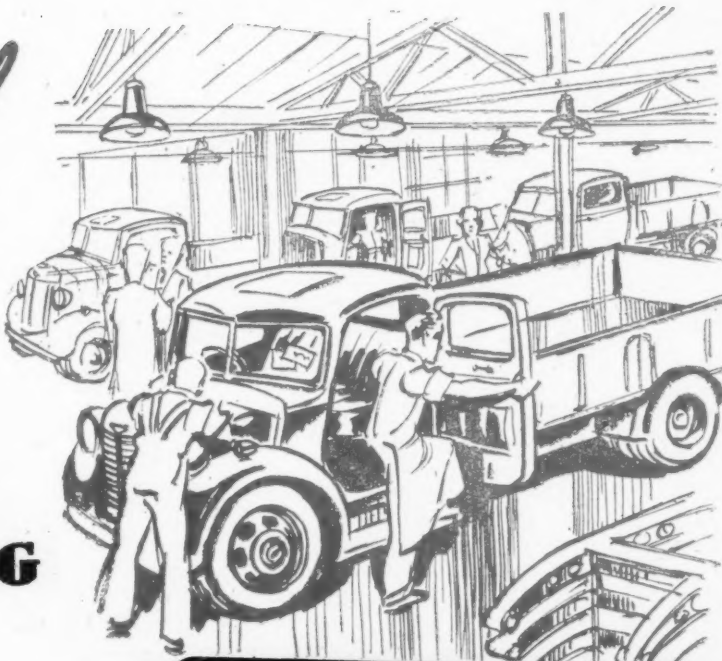
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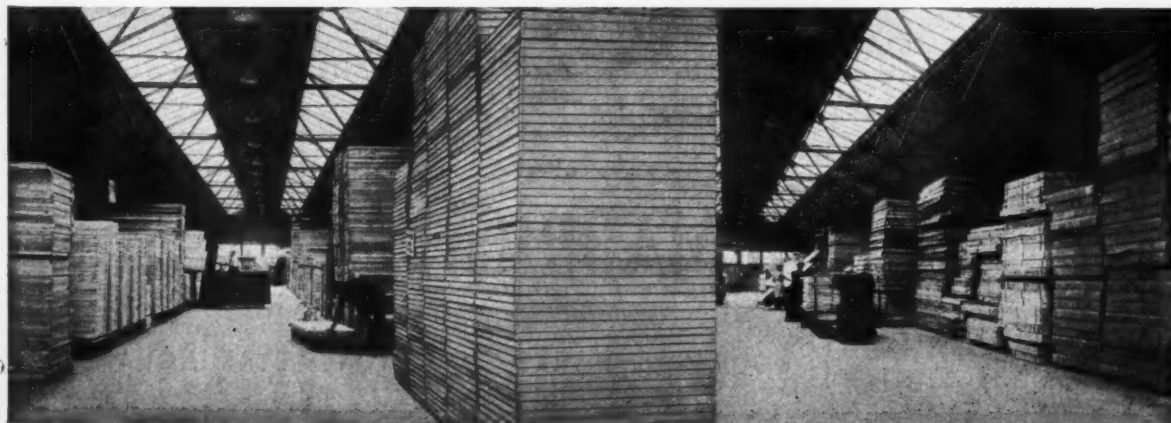


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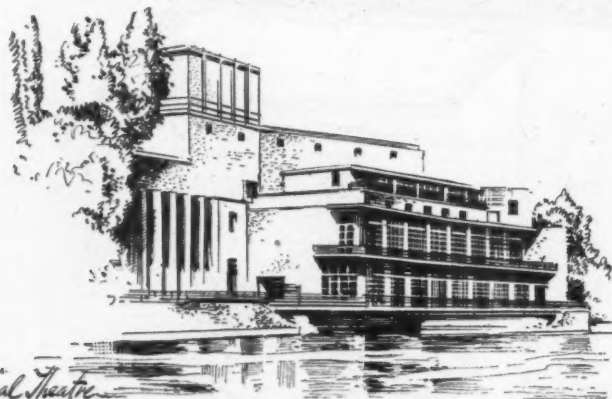
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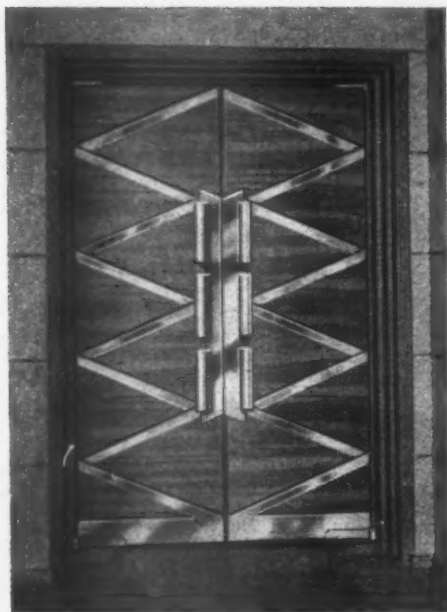
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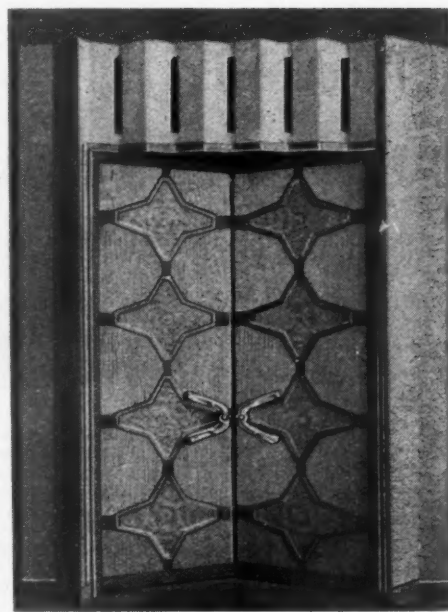
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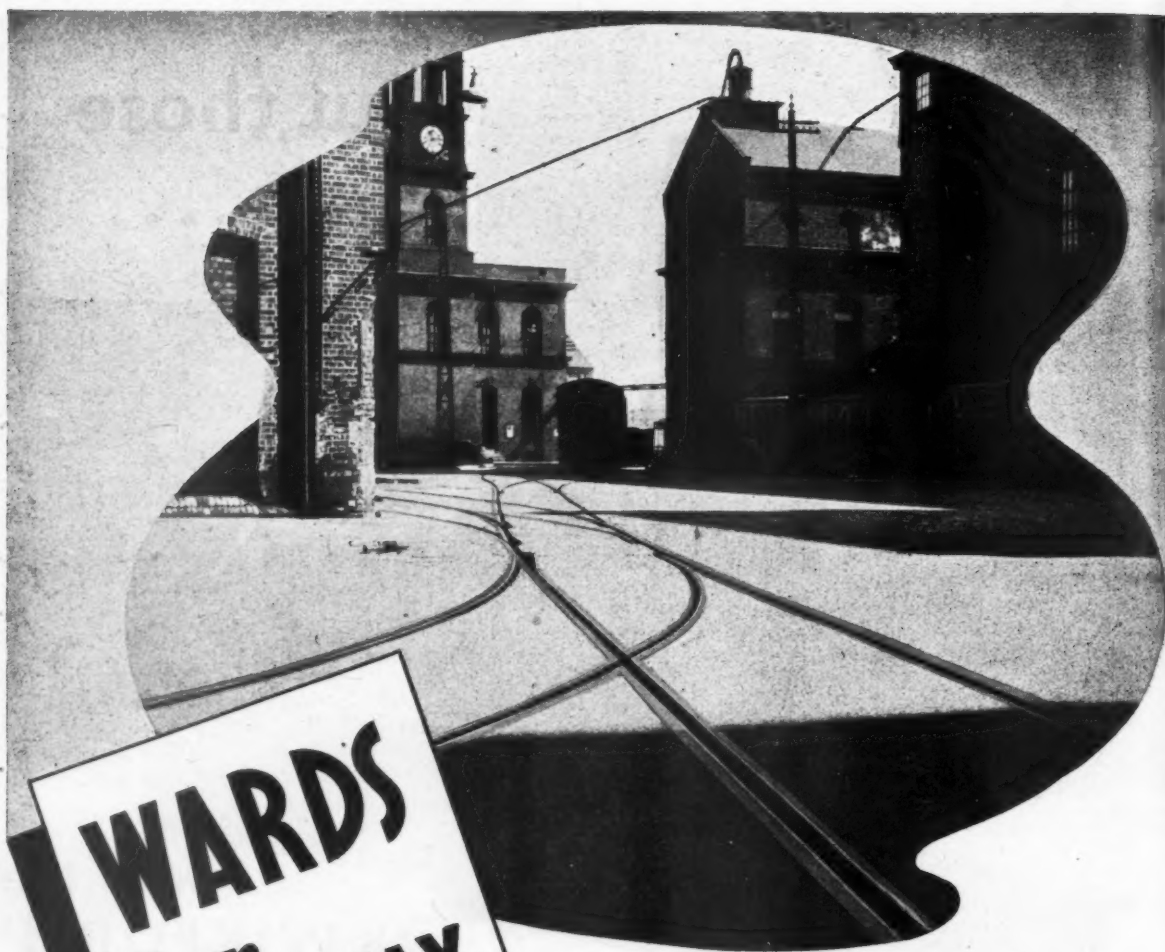
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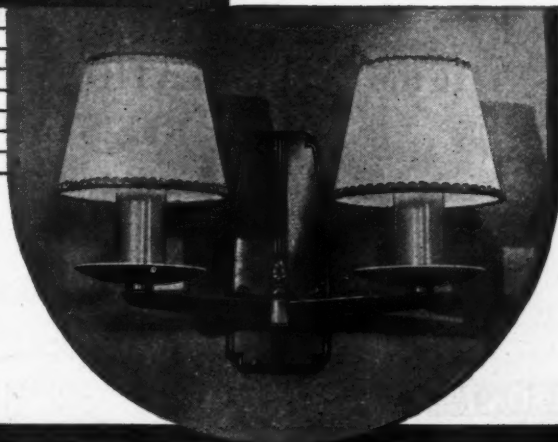
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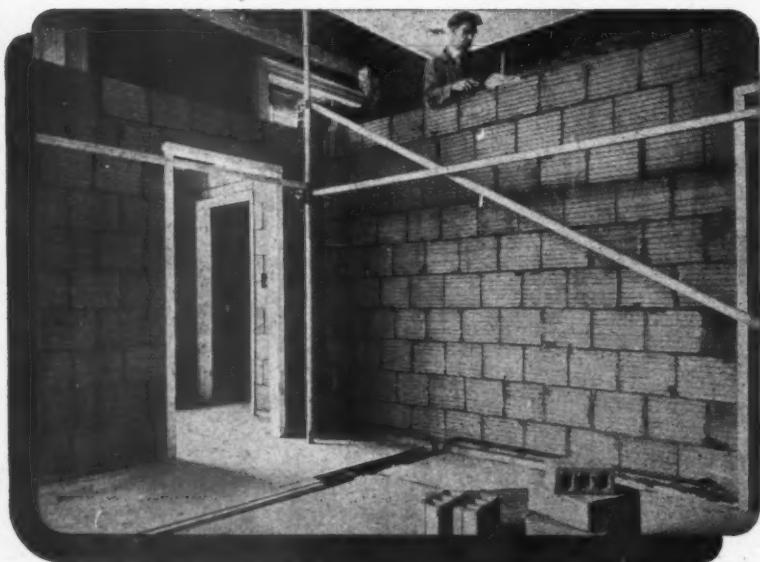
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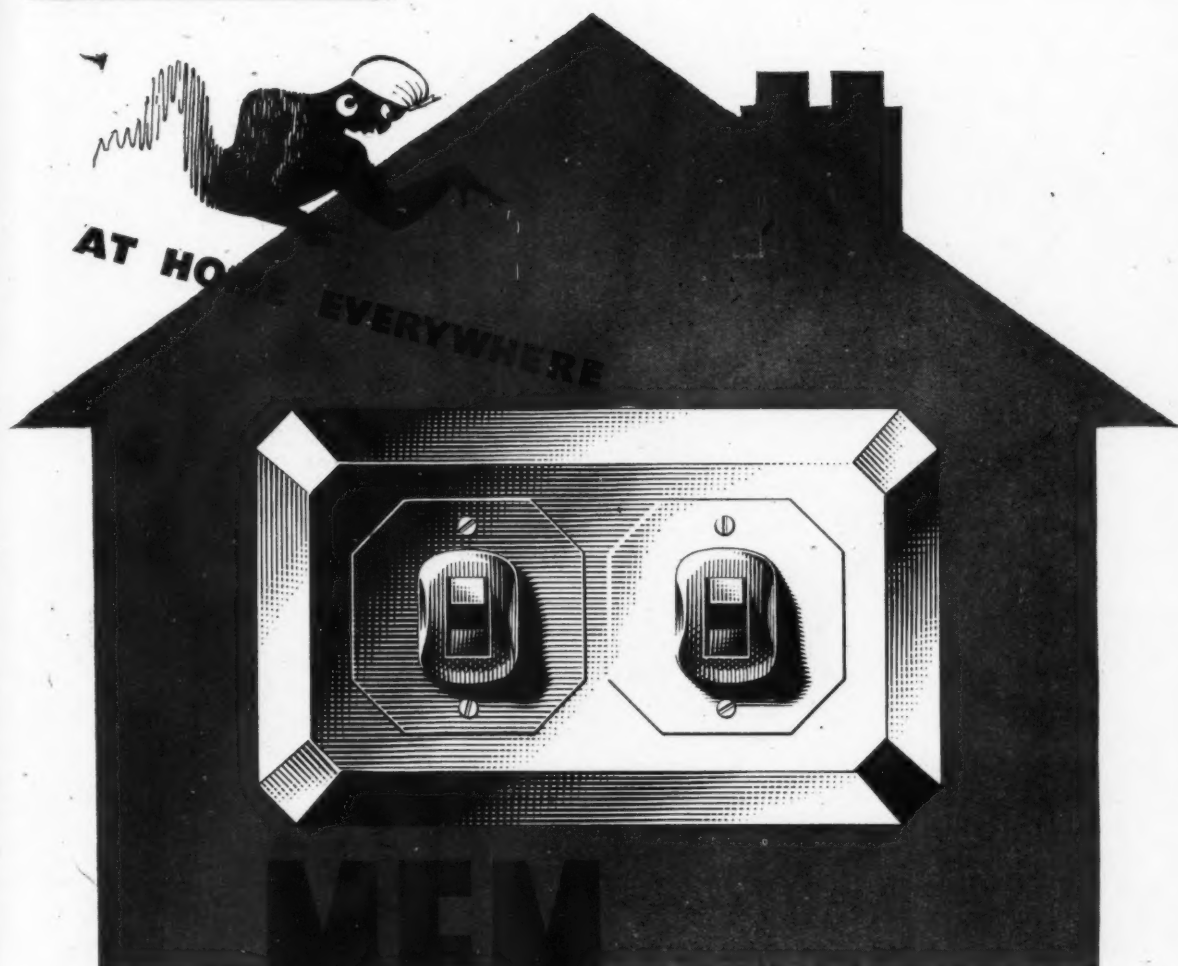
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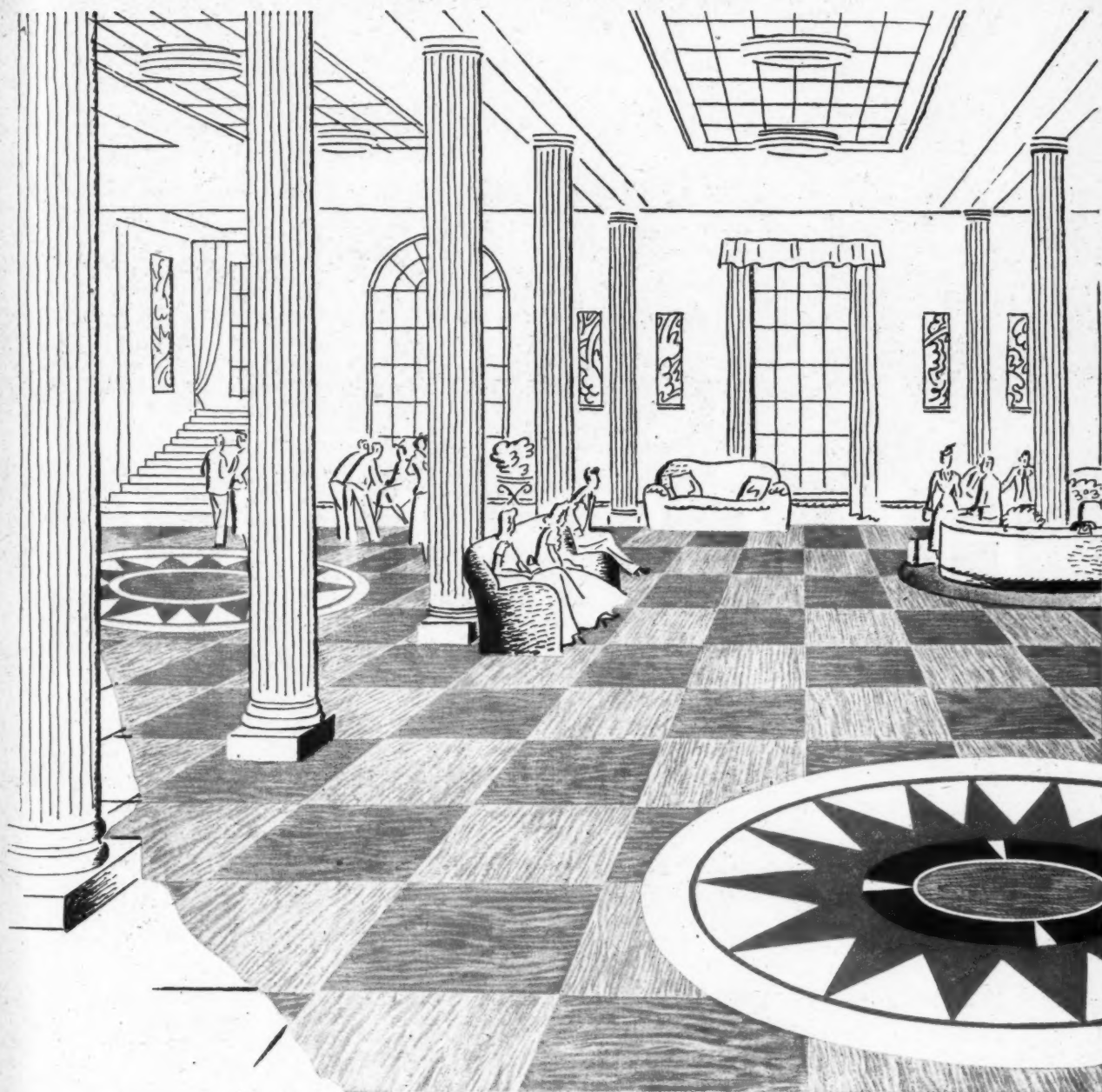
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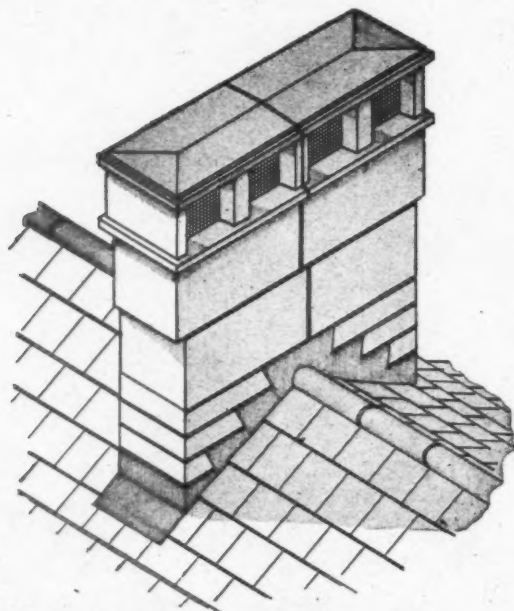
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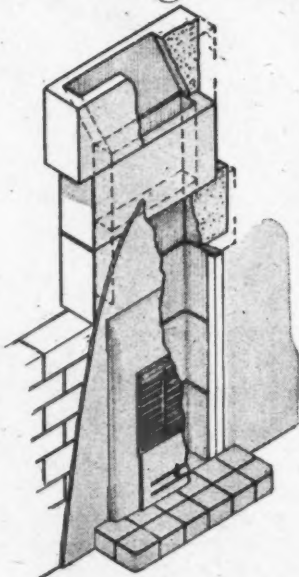


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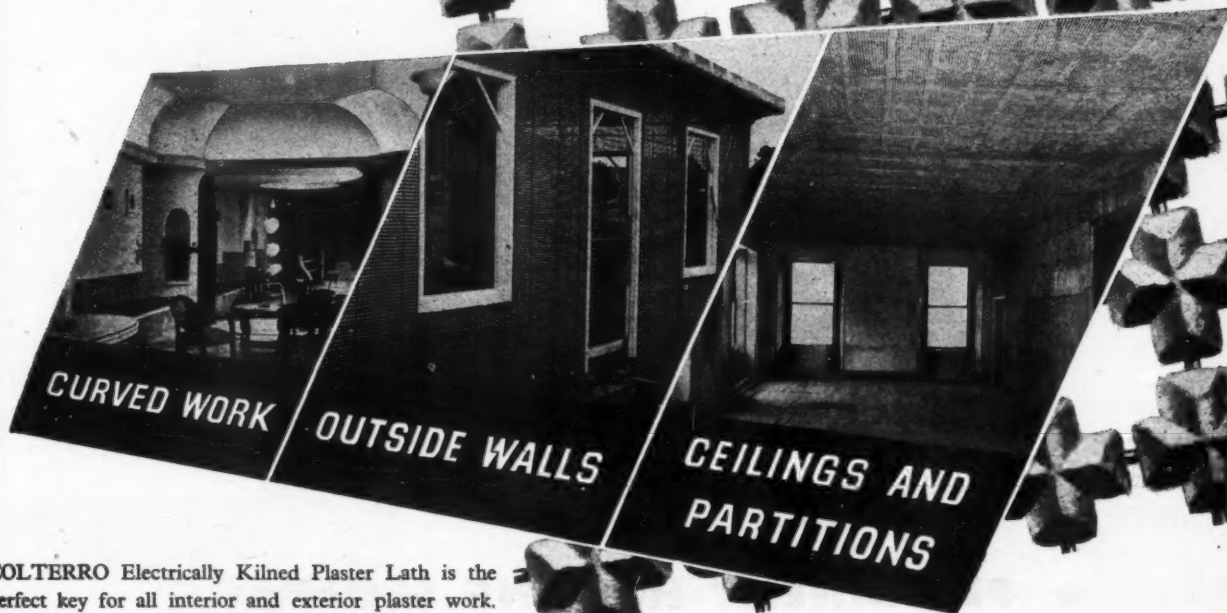
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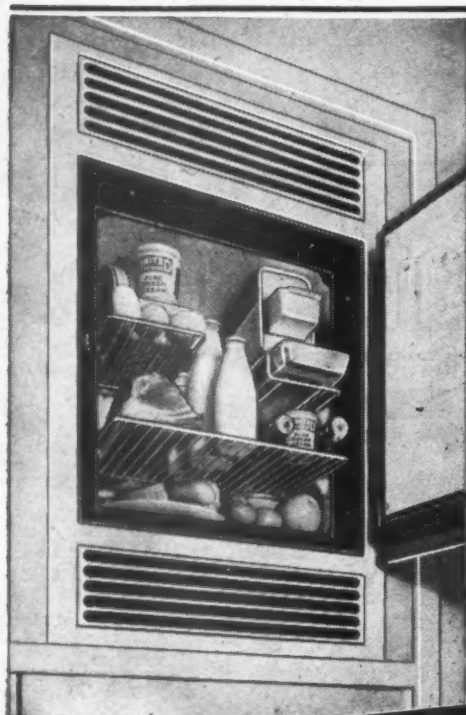
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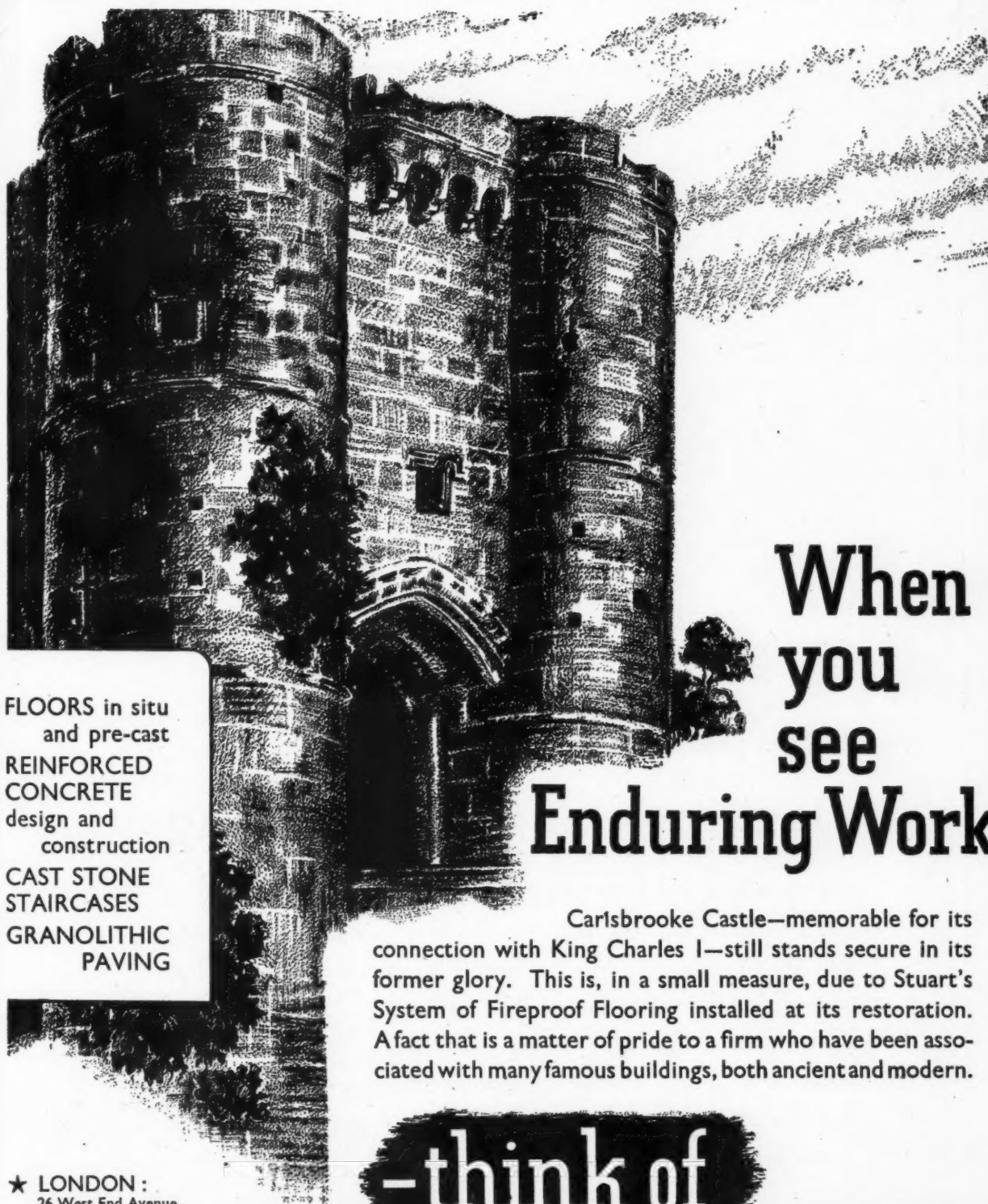
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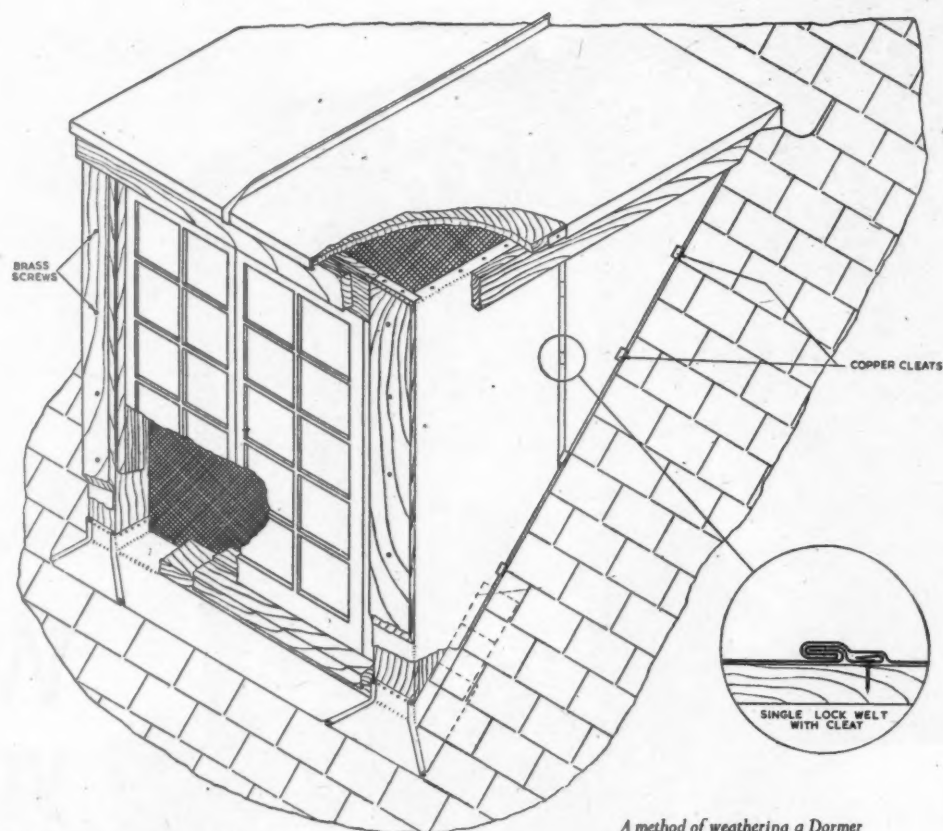
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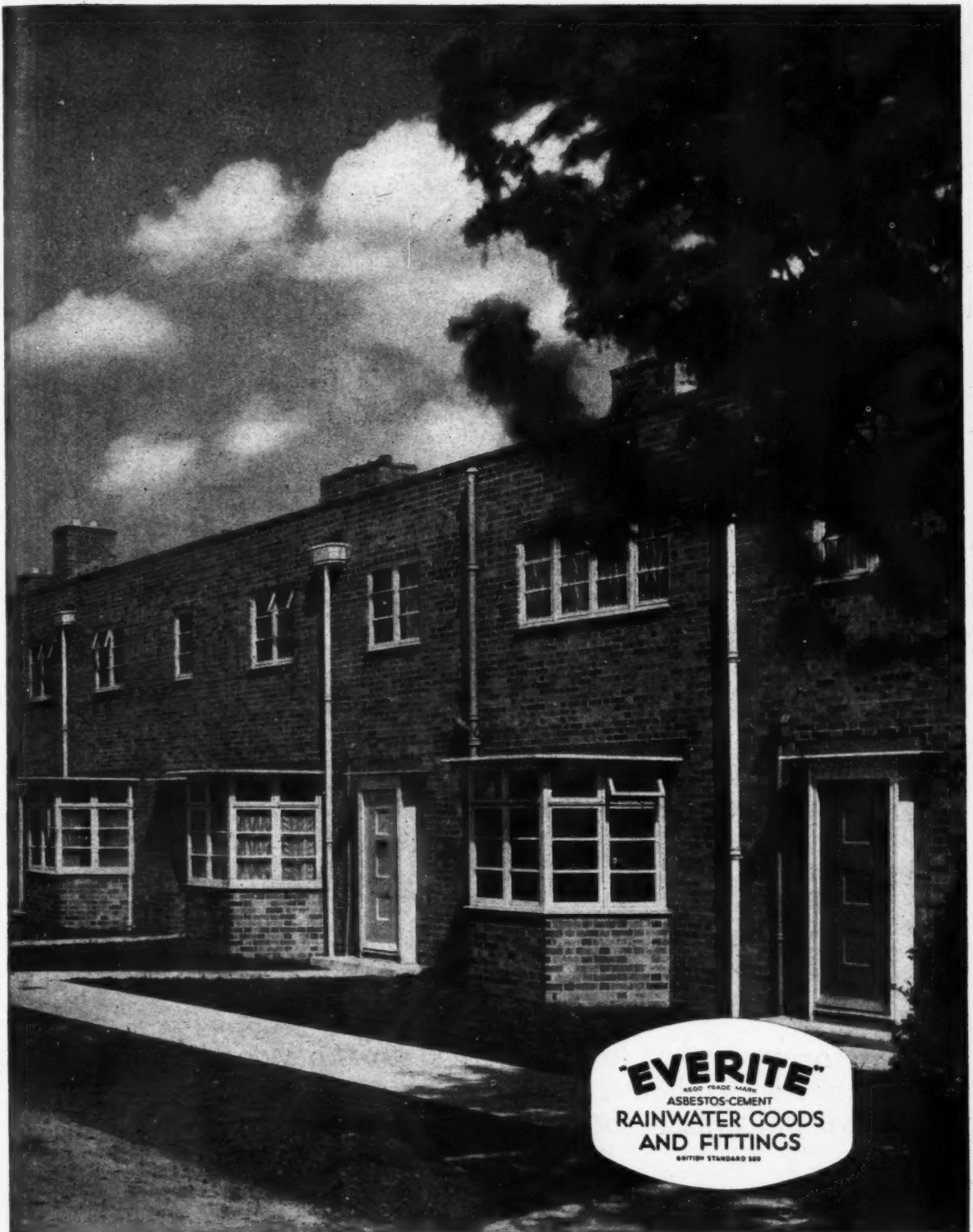
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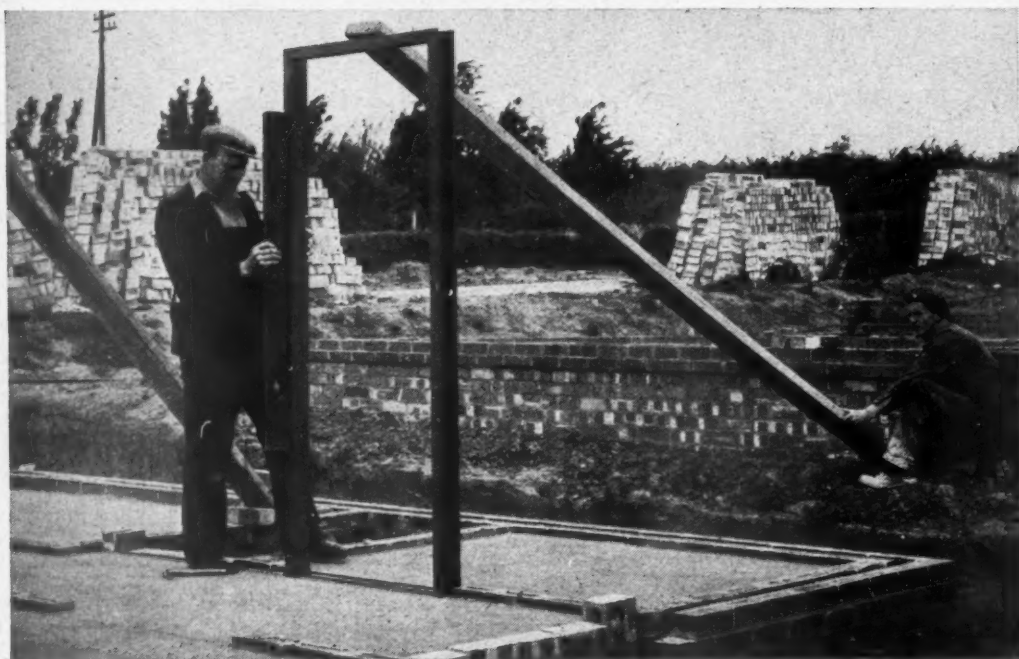
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## DIARY FOR MARCH APRIL AND MAY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials given in the glossary of abbreviations on the front cover.

**BBC John Betjeman.** *The Church of St. John, Mildenhall, Wilts.* Third Programme. 9.50 p.m. MARCH 18

**John Betjeman.** *The Church of St. Mark's, Swindon.* Third Programme. 9.55 p.m. MARCH 19

**BIRMINGHAM.** Dr. J. C. Weston. *Recent House Heating Experiments at Abbots Langley.* At the Digbeth Institute, Digbeth, Birmingham. (Sponsors, BRS, MOW and IHVE Birmingham Branch.) 6.15 p.m. MARCH 22

**CARDIFF.** *Allied Ironfounders' Exhibition Train.* No. 2 Bay Platform, Cardiff (Queen Street) Station. (Sponsor, Allied Ironfounders.) MARCH 21-26

**DUMFRIES.** *Trade Exhibition.* At the County Hotel, High Street, Dumfries. (Sponsor, D. A. Anderson & Son Ltd.) MARCH 29-31

**GLASGOW.** *Exhibition, "Glasgow Today and Tomorrow."* Kelvin Hall, Glasgow. (Sponsor, Scottish Committee of the CID and the Glasgow Corporation.) UNTIL APRIL 9

**HULL.** *Eric Ravilious Memorial Exhibition.* At the Ferens Art Gallery, Hull. (Sponsor, A.C.G.B.) UNTIL MARCH 26

**LIVERPOOL.** Dr. J. C. Weston. *Recent House Heating Experiments.* At the City Technical College, Byrom Street, Liverpool. (Sponsors, BRS, MOW and the Liverpool Architectural Society.) 7.15 p.m. MARCH 24

**LONDON.** *The Kind of Architecture We Want in Britain.* Chairman: Prof. W. G. Holford. Symposium and Discussion arranged by the Architectural Group of the Society for Cultural Relations with the USSR, at 14, Kensington Square, London, W.8. 6.30 p.m. MARCH 17

**James Holland.** *The 1951 Festival Project.* At the Artists' International Association, 15, Lisle Street, W.C.2. (Sponsor, Artists' International Association.) 7.30 p.m. MARCH 17

**Planning the Hartlepoons Exhibition.** At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) MARCH 17-31

**Building Teachers' Conference.** At the Willesden Technical College and School of Art, Denzil Road, N.W.10. 10.45 a.m.-5.30 p.m. MARCH 19

**Exhibition of Interior Design.** At the Building Centre, 9, Conduit Street, W.1. (Sponsor, LCC Central School of Art and Crafts.) UNTIL MARCH 19

**Max Lock.** *Planning the Hartlepoons.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. MARCH 22

**T. P. Hoar.** *The Protection of Metals against Corrosion.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. MARCH 22

**Lt.-Col. B. C. Shore.** *Dry Rot.* At the Tudor Room, Caxton Hall, Westminster. (Sponsor, IAAS.) 6.30 p.m. MARCH 23

**S. Rowland Pierce.** *The Architect and Planning.* At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. MARCH 23

**Sir Lancelot Keay.** *Ways and Means of Housing.* Address at the annual meeting of the Shoreditch and Hackney Association, at the RIBA, 66, Portland Place, W.1. 5.0 p.m. MARCH 23

**Exhibition of Pre-stressed Concrete Construction.** At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, MOW.) UNTIL MARCH 25

**Ideal Home Exhibition.** At Olympia. (Sponsor, The Daily Mail.) UNTIL MARCH 26

**Exhibition of Industrial Architecture.** At the RIBA, 66, Portland Place, W.1. Week-days 10 a.m.-7 p.m. Saturday 10 a.m.-5 p.m. UNTIL MARCH 26

**Dr. J. C. Weston.** *The Efficiency of House Heating.* At the Institution of Mechanical Engineers, Storey's Gate, S.W.1. (Sponsor, Institute of Fuel.) 5.30 p.m. MARCH 29

**J. Webb.** *Interim Report on the Rural Housing Survey.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 1.15 p.m. MARCH 29

**Edgar Kaufmann.** *Museums and Industrial Design.* At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. MARCH 30

**NOTTINGHAM.** *University Theatre Exhibition.* At the Chapel Bar Art Gallery, Nottingham. (Sponsor, A.C.G.B.) MARCH 18-26

**SWANSEA.** *Allied Ironfounders' Exhibition Train.* No. 1 Platform, Swansea (High Street) Station. (Sponsor, Allied Ironfounders.) UNTIL MARCH 19

**THE POTTERIES.** *Design Week* organized by the Council of Industrial Design. Details to be announced locally. UNTIL MARCH 19

### COMPETITIONS

**Fleet Air Arm Memorial of the 1939-45 War,** at Lee-on-Solent, for the Imperial War Graves Commission. Premiums, £100, £60, and £30. Assessor, Edward Maufe, R.A. Conditions from the Secretary, Imperial War Graves Commission, 32, Grosvenor Gardens, London, S.W.1. Closing date, May 20, 1949.

## NEWS

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*Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.*

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.



### INFORMATION SHEETS. APPLICATION FORM FOR RE- PRINTS.

New subscribers who wish to complete their sets of Information Sheets by the addition of those Sheets published before they began to subscribe should fill in the form below, stating the date their subscriptions commenced. Readers wishing to order copies of individual Sheets may identify them either by the classification number, or the sequence number which is printed on the face of each Sheet immediately below the main title. The price of Information Sheets is 3d. each, post free.

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..... A.J. 17.3.49

# FUEL FOR AGA COOKERS IS IN PLENTIFUL SUPPLY

*ALL MODELS OF THE AGA COOKER  
BURN EFFICIENTLY ON COKE...  
AND SUPPLIES OF DOMESTIC COKE  
ARE PLENTIFUL*

RECENT REPORTS about difficulty in obtaining suitable fuel for cookers of slow combustion or heat conserving types have been misleading.

Aga owners and prospective purchasers should not be concerned by these reports — the Aga burns coke!

## THE AGA DESIGNED FOR COKE

In fact, all models of the Aga cooker have been designed specifically to burn coke—the cooker and water heater models for a minimum of 10 hours unattended, other models for a longer period.

Domestic coke is in plentiful supply. One ton of this fuel will last as long in an Aga as a ton of anthracite, and costs considerably less.

The special design and construction from high-duty chrome iron of the Aga firebox makes the Aga cooker suitable for burning all qualities of domestic coke of the correct size.

Many present Aga owners know from their own experience that coke is an efficient fuel for the Aga.

The Aga was designed, originally, in Sweden to burn coke.

With no natural coal resources of their own, the Swedes have always imported their fuel and they have always used coke for Aga cookers.

## AUSTRALIANS USE COKE

The steady and increasing demand for Aga cookers in overseas markets substantiates still further the efficient performance of these cookers when fuelled with coke. In most of these countries, coke is the only available fuel.

In Australia, one of the best Aga export markets, Aga owners get satisfactory performance using coke even of inferior qualities. The increase in sales demands for the Aga proves further its success with this fuel.

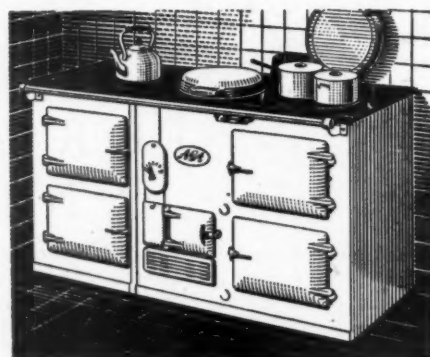
## NO HARDSHIP FOR AGA OWNERS

It is in national interests that export demands for anthracite should be satisfied.

The export of this fuel, however, need not cause any hardship to present or prospective Aga owners.

Both in this country and abroad, the reputation of the Aga for efficiency and economy has been established by its performance as a coke-burning cooker.

The Aga saves fuel for the householder and the nation.



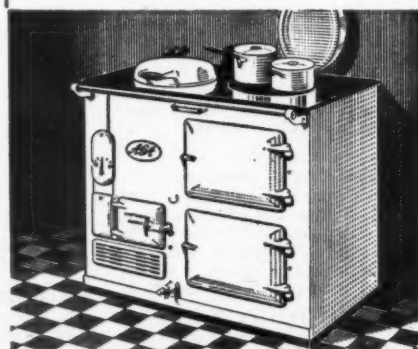
*This is the Aga Model B Cooker for the larger household. Its guaranteed maximum fuel consumption per year is 3 tons using COKE or "Phurnacite".*

## ALL AGA MODELS BURN COKE

Night and day, the Aga is ready to cook. Using coke, its continuous burning fire needs fuel only twice in 24 hours, or 3 times for cookers with water heater and the heavy duty models.

Coke is the most economical smokeless fuel for all Aga models. It costs 20% less than anthracite. Any quality of the correct size is effective fuel for both domestic and heavy duty models in use in schools, hotels, hospitals, etc.

Domestic Aga models are priced from £85 to £115.



*This is the Aga Model CB Cooker and Water Heater for the medium size family. Its guaranteed maximum fuel consumption per year is 3½ tons using COKE or "Phurnacite".*

## AGA HEAT LIMITED

Orchard House, Orchard St., London, W.1

(Proprietors: ALLIED IRONFOUNDERS LTD.)

## From AN ARCHITECT'S Commonplace Book

**THE RESPONSIBILITIES OF THE ELECTORS.** [*From Building for The People, by Richard Sheppard (George Allen & Unwin, Ltd.).*] Towns and villages, houses and schools are largely under the control of the local authorities and these authorities are directly controlled and closely in touch with the electors. The electors are therefore in a position to influence and control the standards of these buildings, and if this is to be exercised beneficially the essentials of good design must be widely understood. To judge and understand these buildings it is necessary to know the physical standards which determine health and comfort, and how these may govern design. The legislative history of these buildings must also be considered—the form in which housing subsidies have been made has affected the planning of houses—and so on. This book is therefore intended for those who are interested in our national task of rebuilding and planning and who wish to know more about building than can be seen on the façade. . . . The aim has been to provide a basis of knowledge of the fundamental needs in housing, education, and health, and to represent the evolution of these needs and the means of improving them.

### STEEL PRODUCTION in February was higher than ever before in this country.

The annual rate, according to the British Iron and Steel Federation, was 16,176,000 tons, compared with a rate of 15,002,000 tons in January. The best previous month was last November when the annual rate was 15,760,000 tons. This year conditions have been particularly favourable, and the advance on the January figures was greater than last year. In 1948 output increased continuously from January until May, when the holidays checked any further rise. Pig iron output also increased in February. The annual rate was 9,422,000 tons, compared with 9,262,000 tons in January. The largest monthly output was in November, when the rate was 9,620,000 tons.

The industry's supplies of raw materials are being maintained. The scrap drive at home is still going well, and the flow of imported scrap has greatly improved.

★

### Steel for RECONSTRUCTION WORK IN THE CITY OF LONDON was one-third of the total amount allocated to bombed cities in Britain.

This was disclosed in the report of the Improvements and Town Planning Committee presented to the Court of Common Council at the Guildhall on March 10. The MOW had granted building licences for reconstruction work which will cost £2,448,000. Further redevelopment schemes to cost £3,000,000 were awaiting building licences. It was estimated that the cost of development, excluding site values, for which permission had been granted before the Planning Act, totalled £4,597,000, making an estimated total prospective expenditure of £5,524,000.

### Report of the TDA Conference on the ECONOMICS OF TIMBER SUBSTITUTION.

The campaign against the continuing tendency to use substitutes for timber in building which was launched by the TDA at the beginning of the year, was carried a step farther when representatives of the timber trade and the principal timber-using industries—including trade unions—held a conference in Church House, Westminster, on March 8.

Lord Dunmore, who presided emphasized that the conference was in no way intended as an attack on the Government.

Sir Archibald Harris, who was Timber Controller from 1939 to 1947, spoke of the "present calamitous situation" in regard

to the timber industries. The trade contended that the continuance of the present policy, involving the maximum substitution of timber by any and every other material, irrespective of suitability and economic considerations, was unnecessary and harmful both to the industries concerned and to the national economy. The timber shortage boggy, so sedulously propagated, was tending to become a national habit of thought.

Mr. T. A. Storey, chairman of the TDA, said that it was no part of their case that production of steel, concrete, and other substitute materials should be reduced and that more timber should be imported to take their place. It must be true economy to export steel at anything from £50 to £500 a ton, according to the form in which it was exported, rather than use it to save an import cost of £16 a ton on the timber it supplanted.

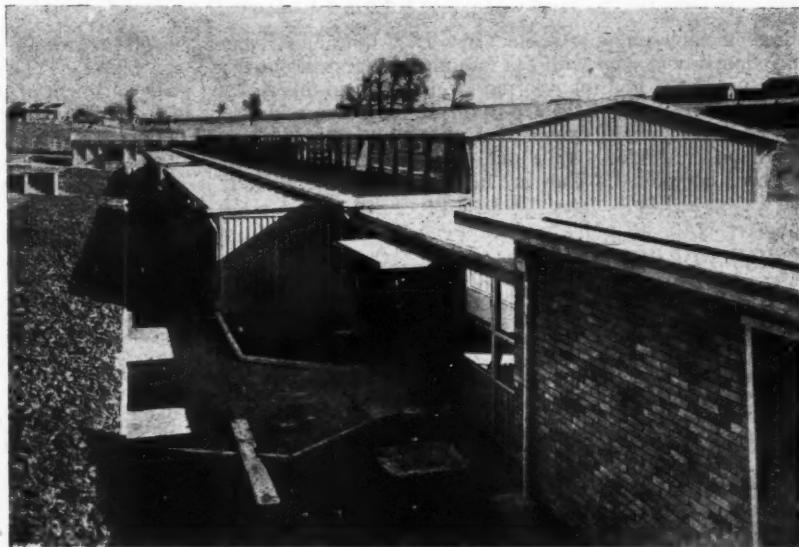
Sir Herman Lebus, president of the British Furniture Trades Confederation, said that the timber allocated to each designated furniture firm was only about one-half of that allocated in the middle of 1946, yet the number of firms now designated by the Board of Trade was three times the number in 1946. At the same time, the stocks of hardwood in the country were very high.

A resolution was unanimously adopted urging the Government to review the present level of imports and allocations of softwood, hardwood, plywood, veneers, and mining and other timbers with the object of seeing in what manner and to what extent adjustments could be made which would provide greater supplies of these essential raw materials without adversely affecting, but rather assisting, the balance of payments between sterling and dollar areas.

★

### PRIVATE MEMBER'S BILL to amend the War Damage Act, 1943.

The Bill seeks to amend Section 31 of the War Damage Act which provides that regulations concerning notification of war damage may specify limits of time for the giving of such notification and empowers the War Damage Commission to extend the limit of time for notification in particular cases. It is proposed to amend this so that the Treasury, after consultation with the Commission or the local authority in whose area the property is situated, may in their discretion extend any limit of time in particular cases.



Britain's first permanent prefabricated aluminium school, opened last week at Lockleaze, Bristol. It has accommodation for 480 pupils and was built in approximately nine months, at a cost of 1s. 11d. per foot cube. The system of prefabricated construction was developed by Richard Sheppard and G. Robson, Consulting Architects to the Bristol Aeroplane Co. (Housing) Ltd. The planning of the Lockleaze School was under the supervision of J. Nelson Meredith, City Architect of Bristol.





## LCC Housing: The Newest Example

The official opening of another new LCC housing scheme has almost coincided with the radio controversy about the quality of LCC housing referred to elsewhere in this issue. Here is a photograph of a portion of the Flower House Estate at Lewisham, which was opened by Mr. Herbert Morrison on Friday. Five out of fifteen blocks have so far been completed. They are in monolithic concrete and

will eventually accommodate 330 families at a cost of £600,000. The scheme has been designed in the Housing Department of the LCC, under the direction of the Valuer. Its architectural quality seems to the JOURNAL to substantiate the criticisms recently made. Some comments on the principles raised by these criticisms and an invitation to readers to contribute their views begin on page 251.

### ★★ APRE-STRESSED CONCRETE DEVELOPMENT GROUP is to be formed in Great Britain.

At a meeting convened by the Cement and Concrete Association it was agreed to form the Pre-Stressed Concrete Development Group for the purpose of promoting the development of pre-stressed concrete in this country and for the pooling of information. A. Kirkwood Dodds, Managing Director of the Pre-Stressed Concrete Company Ltd., was elected Chairman of the Group and an Executive Committee, to be elected annually, was formed consisting of two engineers, two architects, two contractors, two concrete products manufacturers and two representatives of the Cement and Concrete Association. This Executive Committee is now actively engaged in investigating the possibility of future co-operation with Government Department, Research Organizations and other bodies, in recording the type and availability of technical ser-

vice within the Group, in preparing statistics relating to pre-stressed concrete jobs in all parts of the world, and in framing a programme of investigation and research into the subject of pre-stressing. P. Gooding of the Cement and Concrete Association, 52, Grosvenor Gardens, London, S.W.1, is acting as Secretary of the Pre-Stressed Concrete Development Group, and applications for membership or for further information concerning the Group's activities and objectives should be addressed to him.

### ★ The first public exhibition on PRE-STRESSED CONCRETE was opened in London on March 16.

The Exhibition, which will later tour Britain for 18 months, illustrates by models and diagrams the principal systems of pre-

stressing now in use and shows how this technique is applied to a wide range of structures, bridges, aircraft runways, water reservoirs, factories, oil storage tanks, railway sleepers, purlins, joists and floor units for housing and agricultural buildings, etc., with substantial savings in cement and steel. Many actual specimens and models are on view, including a concrete spring-board, demonstrating the "unconcrete-like" properties of the material, which visitors may test for themselves. The largest exhibit is a 36-ft. transmission pole, intended to replace both steel and timber poles in overhead electricity distribution systems. A special gallery of photographs and drawings shows some of the structures for which pre-stressed concrete has already been used at home and abroad, and a portfolio of plans shows some of the future structures for which it is to be used in Britain. The Exhibition will be open at the Institution of Civil Engineers from 10 a.m.—5 p.m. daily, until March 25.



★ **The first ALUMINIUM PREFABRICATED SCHOOL has been opened in Bristol.**

Constructed from prefabricated units developed by the Bristol Aeroplane Company (Housing) Ltd., Lockleaze Primary School, Bristol, is the first permanent prefabricated school to be erected in Britain. The Lockleaze estate in which it stands consists almost entirely of houses built since the end of the war, and development was so rapid that by the end of 1947 it became imperative to find a speedy method of school construction to meet local educational needs. Solution was found in the new "Bristol" prefabricated unit system. An order was placed for a 12-classroom school to accommodate 480 pupils and, within a year of preliminary designs being approved by Bristol Education Committee, the first pupils were admitted. At the opening of four new schools built by the City and County of Bristol Education Committee, Mr. Tomlinson, the Minister of Education, said steel was likely to be short for years and any form of construction which economized in its use would help to produce schools more quickly. During the past few years local education authorities had been taking an average of 15 months to get work started on the site after the Ministry had approved sketch plans. He was not criticizing them, for they had been faced with enormous difficulties, but we could not solve the problem of building schools unless we reduced the time spent on preparation. The schools opened by the Minister were the aluminium prefabricated school at Romney Avenue Primary School, Lockleaze; Penpole Secondary School; Embleton Road Primary School, Southmead; and Begbrook Primary School (see page 245).

## NEWS IN BRIEF

**Mr. W. P. Clayton, Deputy Borough Architect**, of Wallasey, has been appointed to the newly-created post of Borough Architect in charge of a separately constituted architectural department. The duties of Borough Architect were previously carried out by the Borough Engineer.

**A public inquiry will be held** at Richmond on March 21 into Orders made by the London and Surrey County Councils for the compulsory purchase of about 68 acres belonging to the Ranelagh Club at Barn Elms Park, including 29 acres of allotments. It is proposed to use the land for playing fields and housing.

**The Ministry of Fuel and Power** are claiming a further 432 acres of land at Wentworth Woodhouse for open-cast coal operations. Wentworth Woodhouse has so far lost 2,527 acres, including 359 acres of woodland, and some 956 acres are under requisition notice.

**The Poster and the Community** is the title of a booklet issued by the British Poster Advertising Association and addressed mainly to the local planning authorities which, under the Town and Country Planning Act, will exercise control over outdoor advertisements.

**Sir Ben Lockspeiser is to succeed** Sir Edward Appleton as secretary to the Committee of the Privy Council for Scientific and Industrial Research. An announcement from the Lord President's Office says that Sir Edward Appleton will relinquish the appointment on April 30.

# CHALLENGE TO THE BUILDING INDUSTRY

**I**N a leader under this heading the JOURNAL for August 1, 1946, drew attention to the significance of the Second Report on House Construction by the Burt Committee from the point of view of the traditional building industry. It was pointed out that the heat and sound insulation of houses built by unorthodox methods is far superior to that of traditional houses and that consequently non-traditional houses will offer more comfort to tenants (e.g., saving in fuel, less noise). It was expected that "the present competition between old and new methods will benefit the ordinary man and will stimulate the creation of new ideas by architects, technicians and builders."

The picture given in the Third and Final Report by the Burt Committee\* is a further illustration of the gap that exists between the performance of traditional and non-traditional houses. The standards of strength and stability, recommended in the First Report, have been reached without difficulty in nearly all the schemes submitted to the Committee and "the recommended degree of sound insulation and protection against fire has in most cases proved obtainable at an economic cost without drastic modification of the system. The additional amenity resulting from the increase in sound insulation represents an important improvement in building practice." "As far as alternative systems of construction are concerned, a serious attempt has been made by promoters to conform to the standards recommended in our first Report, *but we have been concerned at the lack of progress that has occurred in the sphere of traditional construction.*"†

It may be seen from these remarks that the challenge by the non-traditional methods of house construction has not been met by the traditional building industry. The Report goes on to stress the desirability of an even higher standard of thermal insulation than was recommended in the First Report, in order to save fuel. The economic justification of this suggestion is confirmed by several numerical examples. The heat loss (generally known as the U-value) of a boarded floor on joists on sleeper walls could be reduced from 0.35 B.Th.U. per sq. ft. per hour for each 1 deg. Fahrenheit, by which the temperature on the underside of the floor is lower than that on the topside, to 0.20 B.Th.U. if the joists were draped with building paper faced on both sides with aluminium foil. The cost of this would be £5 per house. If, at a cost of £8, the joists were draped with a mineral wool quilt the heat loss could be reduced to about 0.15, which is the recommended standard.

Even more striking is the case of the external walls. The U-value of an 11-in. cavity brick wall is 0.34, as against a recommended standard of 0.15 to 0.20. If the inner leaf of the 4½-in. brickwork is replaced by 3-in. thick clinker

\* HMSO, 1948, see Inf. Centre No. 17.50. † Our italics.

concrete slabs (at a *saving* in cost of £15) the U-value is reduced to 0.27. A further reduction to 0.17 can be achieved by the provision of ½-in. fibreboards on battens to replace the internal plaster, at an additional cost of about £10. Thus, the loss of heat through the external walls of a building can be reduced to one half of the loss occurring through the traditional 11-in. cavity wall at a *saving* of £5.

Great improvement of the thermal insulation of a traditional pitched roof is equally possible at a negligible cost.

In spite of the MOH Circular of September 3, 1946, to local authorities, in which the need for improved thermal insulation in all new houses was emphasized, and in spite of the higher standards now available in practically all non-traditional systems of houses, traditional building still continues to disregard the comfort of the individual and the economic necessity of the country to save fuel.

Each of the three Reports of the Burt Committee is a valuable contribution to the problem of house construction, and it must be regretted that the series will not be continued.



*The Architects' Journal*

9, 11 and 13, Queen Anne's Gate, Westminster S.W.1

Phone: Whitehall 0611

N O T E S  
&

T O P I C S

#### MORE ABOUT THE LCC

I have been allowed to look at the pages about LCC housing that are appearing in this issue, and I shall be very interested to see what kind of comments they evoke from readers. Architects are always complaining that there is not enough criticism of current work. Here is their chance of showing they really mean what they say.

By a coincidence, Chitty's flats in Holborn are illustrated in this issue, too. They occupy part of the site that was criticized for its terrifying density by J. M. Richards in his radio talk.

They seem to me to be a prize example of an admirable scheme ruined by site conditions over which the architect has no control. Mr. Gibson, when speaking for the LCC, admitted that this area was being built up to a higher density than that laid down in the County of London Plan, but it is worse than that. The density figures he gave were, of course, those of the residential population, but the density of *building* is far greater. Rising alongside Chitty's flats are huge blocks of closely-packed offices. What is wanted round high blocks of flats is open space, not other buildings. The LCC, as the statutory planning authority, must surely accept responsibility for this.

#### BRACKNELL AND THE OTHERS

The current' disagreements over the land which ought to be used for a new town in the Bracknell area will add to the number of believers in new towns who also believe that the chances of several new towns being built would be improved by changes in MOTCP's policy.

The policy is quite logical. Now is the time, the Ministry believes, to choose sites, recruit staff, make all surveys and prepare drawings, so that when the building shortage ends, large contracts can be placed and the towns grow up quickly. The general public feel differently. They were really interested in Stevenage and, if there had been some

concentration of effort on Stevenage and a special allocation of materials, and had the town been one-third built by this time, new towns might have been high in public esteem. As it is, people are fed up with them and do not believe that any of them will succeed.

\*

Architects and planners have much more sympathy with the Minister's dogged progress, but even among us doubts increase rather than grow less as general housing progress improves. It is not at all an easy thing to create a new town. The easiest way, if houses are generally very scarce, is to build houses in existing towns. To wait until a great many people who want houses have got them, before offering houses in new towns, is to risk missing the more energetic people who would have made the towns a success. One hopes that Mr. Silkin will convince his colleagues that the new towns, or two or three of them, must be given some priority in labour and materials.

#### HERTS LEADS AGAIN

The Hertfordshire County Council, which has already shown itself to be



Windsor House, Westminster, designed by Frederick Pilkington, and referred to by Mr. Goodhart-Rendel in his paper at the RIBA on March 8. See Astragal's comment on the opposite page.

## LETTERS

{ A. D. Geach, A.R.I.B.A., A.A.Dip.  
 A. I. N. Russell, F.R.I.B.A.  
 "Pro Bono"  
 R. A. Jensen, F.R.I.B.A.

## Herd and Ego

SIR.—Your editorial entitled "Herd and Ego" in the ARCHITECTS' JOURNAL for February 17, 1949, raises points of considerable interest, not only to planners, but to many who live in this over-organized age. Surely the crystalline attitude towards which you suspect the planners are leaning "in their search for mechanical perfection" is a very natural reaction against the state of affairs which existed before planning became so much in the public eye. By all means preserve us from unimaginative bureaucrats, obsessed with their tidy plans, but let us face the very real problems which are forcing planners towards the crystalline attitude.

This is a densely populated island, and this inescapable fact precludes any Broad-acre Cities if we are to save what is left of our agricultural land and natural beauty, apart from such considerations as nearness to existing public utility services. Undoubtedly there are thousands of people who, like Mr. Roberts, have a very natural desire to live alone with some space about them, but to permit these thousands, who may have equally good cases for doing so, to spread across our precious acres is, with our present population, surely the negation of good planning.

Newton Abbot. A. D. GEACH

SIR.—You tell us, in your issue of February 17, about Mr. Roberts who wanted to build a lonely bungalow, and to live a lonely life, at Stratton Strawless. The County Planning Committee suggested that he should find a less lonely site and live "nearer to a communal centre."

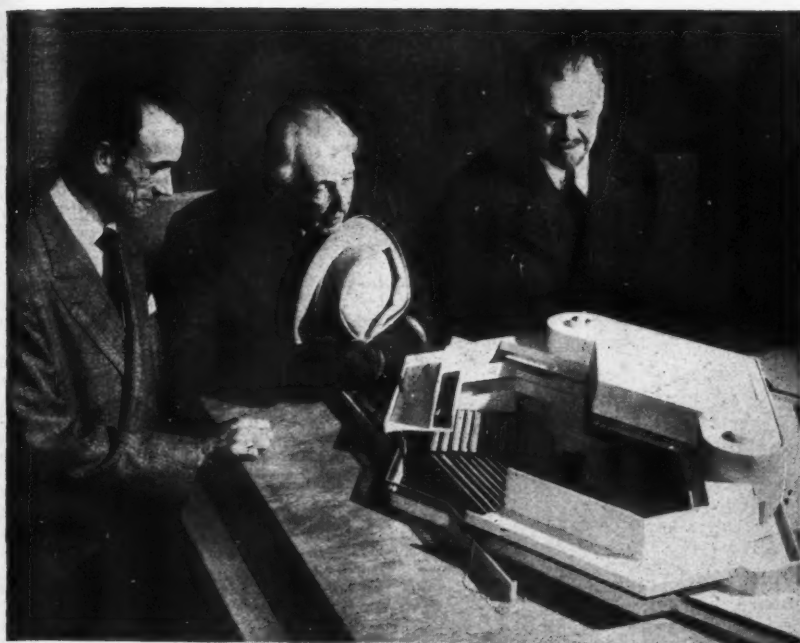
The incident may well suggest most terrifying thoughts, and cause us all to shudder and protest. But it is easy to over-simplify the issue. Through shortage of labour and of materials, every local authority finds itself with a quota of plans which it can license. The lonely bungalow is not only to be Mr. Roberts' home—and it is important to consider the possibility that, being mortal, he might not live to inhabit it—but it becomes part of the national stock of houses. Is it, therefore, unreasonable for the Local Authority to say: "We feel that this licence should be issued to a plan which provides a house in the sort of position where it will suit the requirements of the ordinary house-holder"? Assuming that this is the real basis of their objection, we should perhaps not be too hasty in our judgment of the Planning Committee.

London. A. I. N. RUSSELL

## Future of Architects and Planners

SIR.—In the firm belief that "LGO Architect" has hit on a vital topic, and one that should be followed to a satisfactory conclusion, may I refer to some remarks made in the Parliamentary Debates on the Town and Country Planning Bill during the Third Reading (May, 1947)?

The Bill, we were told, created "a number



Today, at the American Institute of Architects' Conference, Houston, Texas, Frank Lloyd Wright will receive the Institute's Gold Medal. Above, Wright examines a model of his New Theatre which will be erected in Hartford, Conn., this summer. With him, left, is Paton Price, who has commissioned the building, and right, Henry-Russell Hitchcock, the architectural critic and historian.

an enlightened patron of architecture, has decided to provide funds for sculpture and paintings to adorn its schools. I understand one-third of one per cent. of the contract is to be earmarked for this purpose. This may seem a small amount, but school building is expensive, and I am sure that the Council will not spoil this particular ship for a ha'porth of tar.

The difficulty, the plunge being taken, will not be in finding the money, but in finding the sculptors and painters. There are to be many schools in Herts alone and, if the idea should catch on (which I hope it will) hundreds of artists will be needed. The painter and the sculptor have for so long been divorced from architecture that the essential mutual sympathy and understanding must by now be well-nigh lost.

There is a great opportunity here for the County Council to give some point to the too often abstract exercises of art schools. Could not the adornment of the schools also provide an opportunity and an education for the pupils and teachers who work in the schools themselves?

## GOODHART-RENDEL NEVER FORGETS

The trouble about Goodhart-Rendel's brilliance of style—both in composing a paper and delivering it—is that discussion afterwards becomes inhibited, because everyone, rightly, feels incapable of competing with him. That is what happened at the RIBA last week, but nevertheless the large crowd that came along, drawn by his intriguing title "Rogue Architects of the Victorian Era," enjoyed themselves hugely.

They heard Goodhart-Rendel in his best vein, speaking (as he seemed to be convinced) to a mixed audience of architects and elephants. The rogue architect he defined as one who has strayed or been driven away from the herd and is of savage temper. Some of the specimens whose work he showed us had strayed very far indeed. Even the names of Lamb, John Shaw, Bassett Keeling and the others are only familiar to specialists. My own favourite figure in this rogues' gallery is Pilkington, designer of that fantastic building in Victoria Street, once the Windsor Hotel, with outsize details and a ludicrously outsize portico. It was a very educational evening.

ASTRAGAL



## AT THE IDEAL HOME EXHIBITION



At the Ideal Home Exhibition the MOH shows four types of housing accommodation designed by the Ministry's architects: the single-room flat; the three-storey terrace house; the two-storey maisonette; and the two-room flat. The decoration and furnishing of the interiors were carried out under the direction of the CID. The photographs show the living-rooms of three types of accommodation. Top: the living room of a single-room bachelor's flat, designed by Robert Nicholson, M.S.I.A., and Roger Nicholson, A.R.C.A. Centre: the living-room of a two-room flat for a dress-designer, by Jacques Groag, F.S.I.A. Left: the living-room of a solicitor's chief clerk's house. The house is a three-storey terrace house. The furnishings were designed by Frank Austin, M.S.I.A., and Neville Ward, A.R.I.B.A.

of new planning instruments." But who are wielding these instruments? Mr. Medland, of Drake, during the debate, suggested to his right honourable friend (Mr. Silkin, I presume) that "there was one way in which he could pour a little oil on the creaking machinery," and that was: to "take notice of the fact that there is an abundant amount of planning (not to mention architectural) ability in the country which could be made available to him, if he would use it and pay for it. The trouble is that the Civil Service rates of pay for technical officers and technical people are perfectly ridiculous. I believe that that is the greatest deterrent to our getting proper planning officials, either at the Ministry or in the regions. I suggest to my hon. friend that he should go to the Treasury once more . . . and appeal for a proper staff, in order to enable him to make what is a very fine measure, a success."

Mr. Walker-Smith also made a very shrewd comment at the time: ". . . This Bill seems to me to be so concerned with stopping up every gap or crevice through which the possibility of bad development may creep that it is creating an atmosphere in which the possibility of good development will be largely stifled, and that is contrary to the function of true planning."

It would appear that part of the answer to the problem is a little more mutual confidence among the professionals and a little less cautious worship of that "god" Rigid Economy, among the Government officials.

PRO BONO . . .

## Lambeth Flats Competition

SIR.—You publish a letter in your issue of February 17 from Mr. Braxton Sinclair in connection with the recent Lambeth Competition, in which your correspondent discusses the suitability of certain types of construction in multi-storey flat housing schemes.

The categorical statement is made that structural steel-work, fire-proof construction and central heating and hot water systems cannot be provided within the permitted cost. I am not sure that Mr. Sinclair appreciates exactly how this permitted price "ceiling" operates in London, especially where the density requirements make it obligatory to build in the form of multi-storey flat construction. In fact, it may be said that there are very few of us who are concerned with housing work who do know precisely what is and what is not permissible within the "ceiling" figure. Suffice it to say, however, that in respect of the matters to which Mr. Sinclair has referred, I am afraid that he is entirely in error, as a scheme based on 8-storey blocks with structural steel skeleton, fire-resisting construction and central-heating, hot water, etc., is being constructed at the present moment in this Borough within the Ministry of Health permitted cost. I would also add that to my knowledge, there are a number of other schemes with similar provisions being erected in various other parts of the Metropolis.

Far be it for me to argue the case either for or against architectural competitions; but, in fairness, it must be said that in this instance the assessor, in advising his clients, was entirely in accordance with the best current practice for schemes of the type he was concerned with. In fact, it would be of very great interest to learn of any successful multi-storey flat scheme based on orthodox methods of construction only, with, it is presumed, load carrying brick walls, timber floors and pitched roofs, together with the necessary conglomeration of fire-places and flues. Obviously, where density requirements necessitate six or eight storeys, this type of construction is quite impracticable.

Paddington.

R. A. JENSEN,  
Director of Housing.





HILLDROP ESTATE, ISLINGTON *Work on this estate was started in March, 1946, and the last block was completed by August, 1948.*

# LCC Housing

## THE NEED FOR A CRITICAL ASSESSMENT

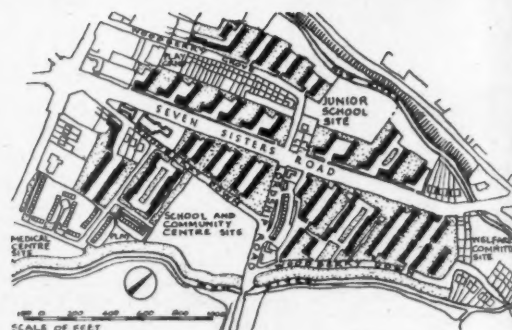
In last week's JOURNAL, Astragal commented on a recent radio discussion about the quality of London's post-war housing, and some observations by Mr. J. M. Richards, which had initiated the discussion, were printed at the same time. Mr. Richards was particularly severe on the recent work of the Housing Department of the London County Council, but Mr. C. W. Gibson, Chairman of the LCC Housing Committee, said in his reply that he did not wish to discuss questions of architectural merit and confined himself to justifying the Council's town-planning policy, some aspects of which Mr. Richards had also criticized.

It is certainly difficult to discuss questions of design over the radio, unless listeners are wholly familiar with the objects

being discussed. And most listeners will not have been sufficiently familiar with the latest LCC housing, so there was something to be said for leaving aesthetics out of it on that occasion. Nevertheless, the quality of design with which the LCC seems to be satisfied is the subject of the gravest concern in the architectural profession. On this and the following pages\* the JOURNAL therefore reproduces a number of typical post-war LCC housing schemes, in order that the discussion Mr. Gibson felt unable to pursue over the radio can take place with the necessary evidence in full view.

The JOURNAL invites the comments of readers on the merits, as architectural designs, of the work illustrated. It regards

\* Also on the frontispiece of this issue, page 246.



**WOODBERRY DOWN ESTATE, STOKE NEWINGTON**  
Left, one of the five-storey blocks of traditional brick construction with concrete floors. Top, the first eight-storey blocks (more fully illustrated in the JOURNAL for March 3). It is of monolithic concrete construction, with access by lifts and stairs. Above, the site plan. Altogether 1,765 families are accommodated on a site of 64 acres.

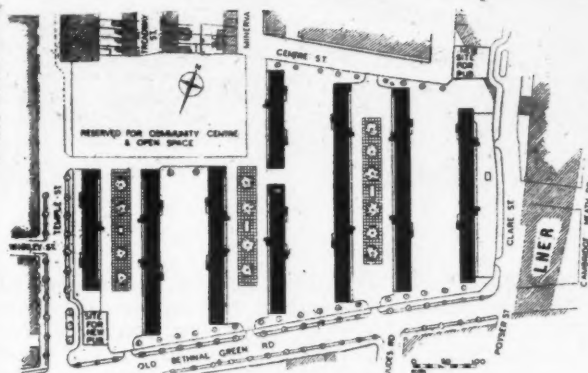
**MERSEY ESTATE, ISLINGTON** The site is of 14 acres, with a density of 54.6 dwellings per acre. The blocks, which were opened in November, 1947, are of five storeys and contain 82 flats. Traditional construction was used throughout.

a general expression of opinion as especially desirable in this instance, because Mr. Richards's close connection with the JOURNAL might otherwise make any editorial support of his criticisms seem less disinterested than it ought to be.

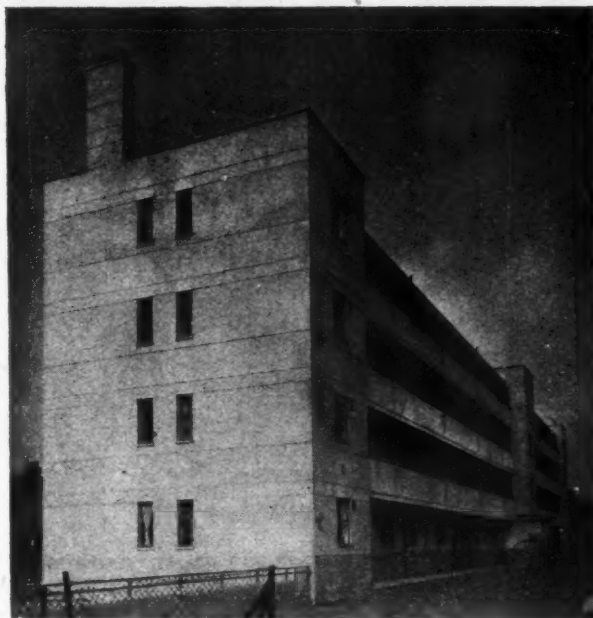
The JOURNAL believes in frank criticism of architects' work by their fellow architects and by independent critics. It trusts that the LCC believes in this, too. Only by regular discussion and criticism of current work can standards be kept up, and this applies with full force to the work of public housing authorities. There is no reason why the people for whom the houses are built, and who pay for them with their labour and their taxes, should only be subjected to a process of public relations and publicity which is as flattening and as ponderous

as a steam-roller. Independent comment on the shortcomings of one of the most gigantic housing operations in history is neither unfair nor unfriendly.

Housing is the most human of all building activities, and therefore has to be the most various; for human beings are of infinite variety. The one form of criticism that can never be called purely destructive is that which points out the directions in which a housing scheme is tending towards inhumanity. This danger is particularly serious when the housing programme is enormous in size; for there is always something frightening about large numbers which come to be regarded as "units" or "digits" rather than as human beings and families. One of the most humane of civil servants used



**MINERVA STREET ESTATE** A site of  $7\frac{1}{2}$  acres in Bethnal Green. One acre is reserved for community centre buildings, open space and two public houses. 253 flats are provided in 8 blocks of 4 storeys. The blocks are grouped in pairs. The flats are of balcony access type served by main staircases. Flat sizes vary from 1 to 5 rooms. The construction is of monolithic concrete. Top, a close-up of a typical block; above, the site plan; right, a block from the south-west.



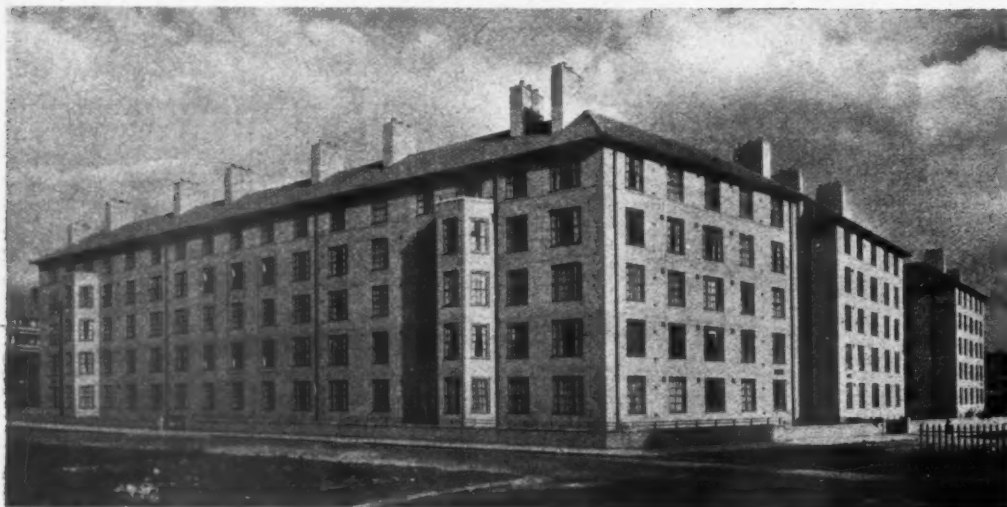
to say to his staff, "Never forget that every file is a human story."

Insensitiveness in the location, layout and designing of dwellings may arise from a number of causes. Hugeness is only one of them. There may, for example, be an overriding authority, either planning or administrative, which makes effective housing machinery impossible. But the LCC is its own planning authority; in many respects it has more immediate financial assets than His Majesty's Treasury and is less subject to continual question in Parliament. Under legislation it has, of course, to satisfy the Ministers of Health and of Town and Country Planning that it is using—and using properly—the powers conferred upon it. But within those limits

the LCC is its own master, and it is quite right that it should be so.

The typical LCC housing schemes illustrated herewith have all been completed since the war. Some have been designed in the Housing Department under the Valuer; others have been erected under the Valuer's supervision from designs made in the Architect's Department before responsibility for housing was taken away from the Architect and conferred on the Valuer some years ago. This distinction is not, of course, very material to the criticisms that have been made, because it is the *work* that is the subject of criticism; the source from which it comes is only so by implication. But it may be that the very fact that the present Housing Department is working





**ST. VINCENT ESTATE** These flats, top, on the fringes of Poplar and Stepney, were begun in 1946 and were finished in 1948. Above, left, **PEMBURY ESTATE, HACKNEY** The last two blocks of this pre-war scheme have recently been completed. They provide a total of sixty flats with the following accommodation:—2 room, 10; 3 room, 30; 4 room, 13; 5 room, 7. Above right, **SOUTH LAMBETH ESTATE** This is a pre-war scheme consisting of 289 flats on a 5.16 acre site, on which work was resumed in 1945. 170 flats were completed by the middle of 1948. The following types of flats are being provided —1 room, 9; 2 room, 21; 3 room, 128; 4 room, 58; 5 room, 33. Left, **DINMONT ESTATE, BETHNAL GREEN**, started in 1946 and finished in 1948.

to plans made so many years ago will be taken as another point of criticism on the grounds that such plans cannot embody the most up-to-date practice. If it is necessary to apportion responsibility for any particular designs, as between the Architect of some years ago and the present Valuer, a point to be remembered is that the latter is presumably at least partly responsible for the *detailing* of buildings carried out by his staff even when the plans were taken over from the Architect; one of the criticisms that have already been made is that the details and finishes are crude and insensitive.

Though not wishing to prejudice an issue which readers are invited herewith to judge for themselves, the JOURNAL suggests that the aspects of design to which they direct their attention

should be those about which views have already been expressed, namely, the question of detailing and finishes just mentioned, the question of suitability of material, the quality as architecture of the exteriors, the very difficult question of balcony access and the architectural character it produces, the site lay-out, spacing and arrangement of blocks and so on, and, finally, the density of building on the site. Any other points, of course, can also be raised, and readers who admire the LCC's work are equally invited to say so. It is suggested, in order to keep criticism fairly related to present-day conditions, that comparison should be made with housing work done by other public authorities and by private architects working for public authorities, including the LCC.

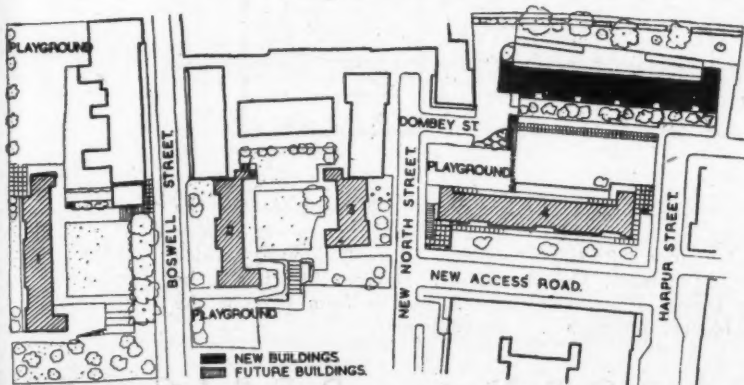




From the South.

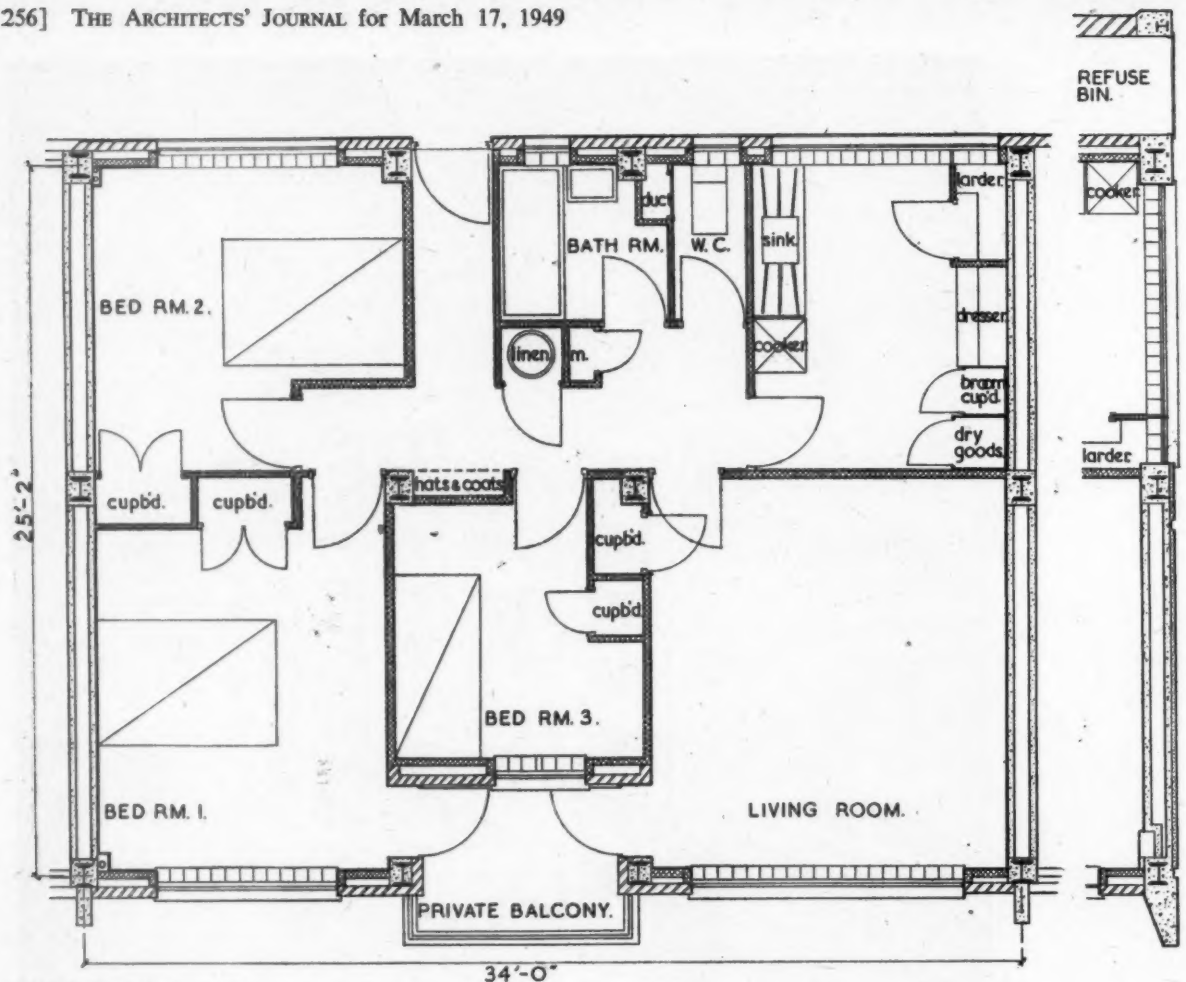
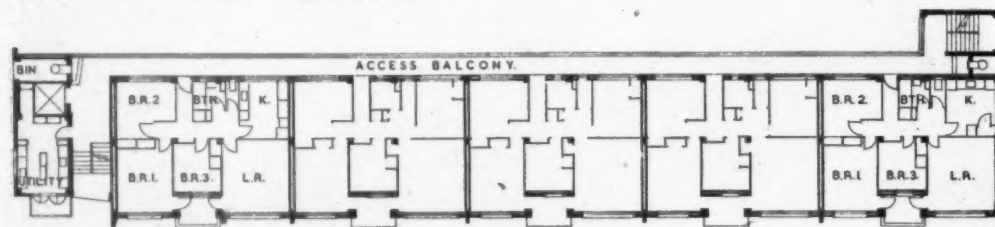
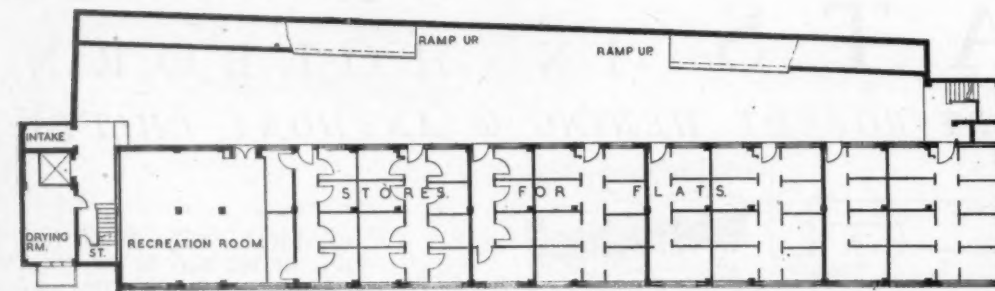
# FLATS IN HOLBORN

DESIGNED BY ROBERT HENING & ANTHONY CHITTY



SITE PLAN

GENERAL.—The scheme consists of 162 flats in the Great Ormond Street area. This area will be Holborn's chief residential district and has been planned by the architects to accommodate 4,000 people, with its own shopping centre, primary and nursery schools, etc. This neighbourhood unit forms part of a general plan for the whole borough prepared by the architects in 1947. The flats are grouped in five blocks, one of which is ten storeys high and

TYPICAL FLAT PLAN [Scale:  $\frac{1}{8}$ "=1'0"]GROUND FLOOR PLAN [Scale:  $\frac{1}{8}$ "=1'0"]BASEMENT FLOOR PLAN [Scale:  $\frac{1}{8}$ "=1'0"]

the others seven storeys. There is full central heating and constant hot water from a central boiler house. Each flat has a private balcony, choice of gas or electricity for cooking and refrigerators and

private lock-up store in basement. There are fully automatic lifts, refuse chutes, laundries and utility rooms with drying cabinets. There is a generous layout of gardens, between the blocks, planned so

as also to be available for the inhabitants of the pre-war housing scheme (Boswell House), which adjoins. Dombey Street is to be closed and to form part of the garden layout.

## FLATS IN HOLBORN : DESIGNED



*From the  
north - east.*

CONSTRUCTION.—The construction is steel frame with hollow tile floors and RC cantilever balconies, flank walls and staircases. A notable point is that this is the first time cavity construction has been permitted for panel walls in very high buildings. Working under a series of waivers from the London Building

Acts, the architects have overcome the previous difficulties of strength and stability in cavity wall construction. The cavity is in many cases wide enough to take anti-siphon pipes, hot and cold feeds, and relay wireless gear, etc., and elsewhere the services are taken in ducts and in the double party wall construction. A steel frame con-

struction was selected at the onset as possessing the highest degree of "off-site" preliminary work. Later in the job brickwork was substituted for concrete walling. The architects have introduced precast slabs on the flank walls, used as permanent shuttering, with a surface composed of broken brick, the waste facings from the wall

BY ROBERT HENING & ANTHONY CHITTY





*Above: looking at the west corner of the south front. Left: from the west.*

construction being used for this purpose. By this means it is hoped to obtain texture, freedom from cracks and crazing as well as intrinsic and fast colour values. Double-leaf party walls have been used for sound insulation, and a number of constructional points have been designed to give good thermal insulation. The rubbish chutes have self-closing hoppers, top ventilation and water flushing facilities. A crawl way duct passing under three roads connects all the blocks and carries all the service pipes.

**PLANNING OF FLATS.**—The flats range from 4-room types down to single-room accommodation for older people and the proportion of each type is carefully aligned to Holborn's requirements. There is little to note in the flat-plans which, as always with low-cost London flats, are the result of a balance between the regulating factors—cost, minimum space standards, maximum equipment requirements, and the over rigid requirements of sanitary, housing and fire escape authorities. The kitchen is carefully planned to enable some meals to be taken there, the window wall being kept clear for this purpose, apart from the radiator. A special cupboard is provided for gas and electric meters, drying cabinet switch and pilot light, etc. Wood-block floors are provided in all living rooms, Swedish first- and second-grade blocks being used for this purpose. The bedrooms have deal boards on battens and the remaining rooms have coloured asphalt flooring.

**COST OF SCHEME.**—At the time, this scheme was said to be the most expensive ever passed for loan sanction by the LCC. The average cost was approximately £2,100 per flat at the signing of the contract (Feb., 1947) and this was after a pruning of £77,000 required by the LCC. An analysis of the cost shows that of the £2,100 per flat, £95 is due to the central heating and hot water, while approximately £124 is due to the special and awkward conditions of the site, the short blocks, difficult building lines, high proportion of retaining walls and road works, flank walls, lifts and staircases. The general contractors were William Moss & Sons, Ltd. For list of sub-contractors see page 264.

FLATS IN HOLBORN  
BY R. HENING & A. CHITTY



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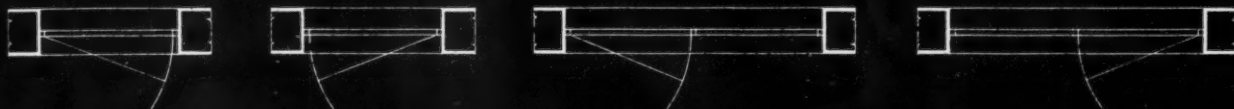
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**WINDOWS | STEEL | GENERAL DATA****24.C1**

The Architects' Journal Library of Information Sheets 153. Editor: Cotterell Butler, A.R.I.B.A.

INSIDE



OUTSIDE

RIGHT HAND

LEFT HAND

RIGHT HAND

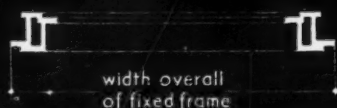
LEFT HAND

ALTERNATIVE HANGINGS. note: handing is denoted by hinge position viewed from inside

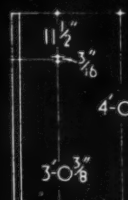


quantities and handing should be noted below elevations.

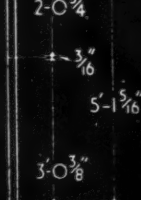
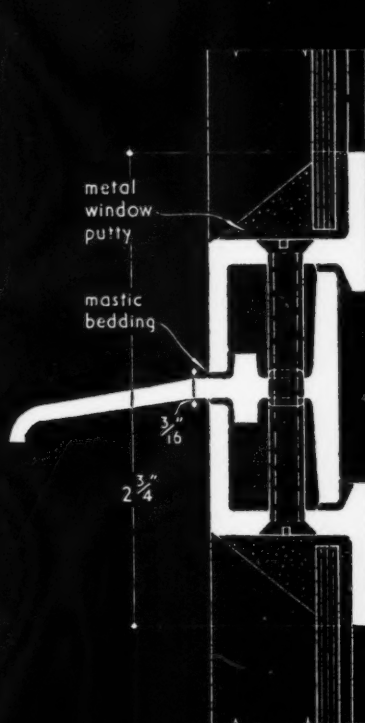
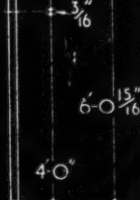
STANDARD METHOD OF INDICATING TYPES OF OPENING LIGHT.



DETAIL SHOWING POINTS BETWEEN WHICH STANDARD SIZES ARE TAKEN.

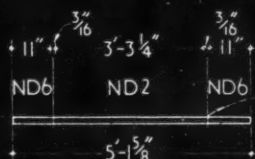
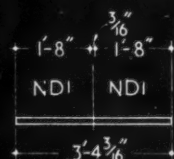
NGI  
NCINGI  
NDI

transom coupling

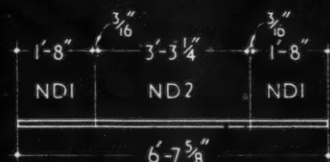
NEI  
NCINEI  
NDI

HEIGHTS OF COMPOSITE WINDOWS.

TRANSOM COUPLING.



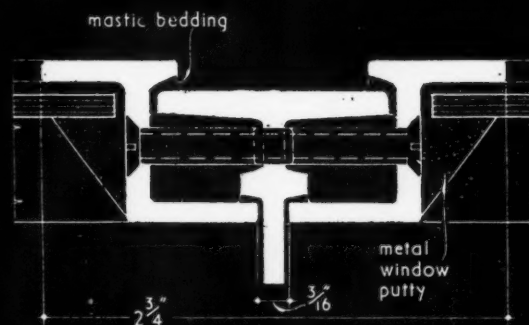
mullion coupling



composite windows are specified thus:

NCI	NC4	NCI
or		
NEI	NE2	NEI
NDI	ND2	NDI

WIDTHS AND SPECIFICATION OF COMPOSITE WINDOWS.



MULLION COUPLING.

STANDARD METAL WINDOWS: SPECIFICATION.

Compiled from information supplied by The British Metal Window Manufacturers' Association Limited



## 24.C1 STANDARD METAL WINDOWS: SPECIFICATION

This Sheet is the first of a series and illustrates the methods of specifying standard metal windows. Further Sheets in the series will give sizes and types of windows and doors and fixing details.

### Notation

The notation of standard metal windows is as follows :

Prefix "N" denotes no tee glazing bars.

Prefix "H" denotes horizontal tee glazing bars.

Suffix "F" denotes a type containing top hung "night" ventilator.

Suffix "/S" denotes a "sub-light" type, *i.e.*, having a fixed pane or panes at the bottom of the window.

It will be observed that the letter immediately following the prefix is consistent for standard windows of the same height, thus:

"G" types are all 11½ in. high.

"E" types are all 2 ft. 0½ in. high.

"C" types are all 3 ft. 0½ in. high.

"D" types are all 4 ft. high, and

"DV" types are all 4 ft. 11½ in. high.

### Hanging

In cases where a single side hung ventilator occupies the full width of the window it may be hung on either jamb as shown. Similarly, in cases where a single side hung ventilator occupies half the width of the window the ventilator may be hung on either jamb as shown.

### Handing

The side hung ventilators of standard metal windows are described as right or left hand according to the

side on which they are hinged *looking from the inside*.

### Opening Lights

The general method of indicating these is by crossed diagonal lines and the letters T.H. or S.H. as shown on Sheets 24.C2 and 24.C3.

### Composite Windows

When calculating the overall size of a composite window add ¼ in. to the aggregate unit height for each transom used and ¼ in. to the aggregate unit width for each mullion used. They should be specified as shown on the face of this Sheet, horizontal lines between types indicating transoms and vertical lines indicating mullions.

### Fixing

A mastic joint should always be provided between the window and surrounding brickwork or other masonry. To allow for this a clearance of ¼ in. must be maintained all round.

This is always important but particularly so where the window opening is built up progressively with the window in position.

Compiled from information supplied by:—

The British Metal Window Manufacturers' Association, Ltd.

Address : 2, Great Peter Street, London, S.W.1.  
Telephone : Whitehall 9606.



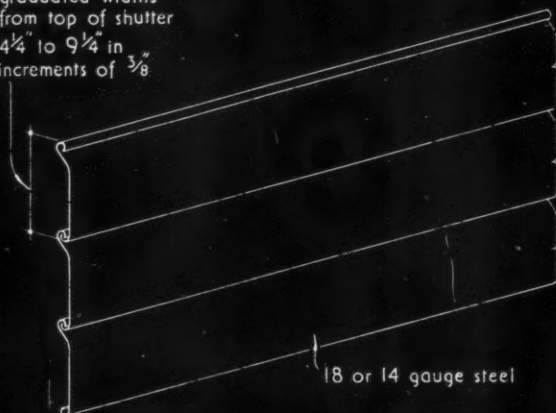
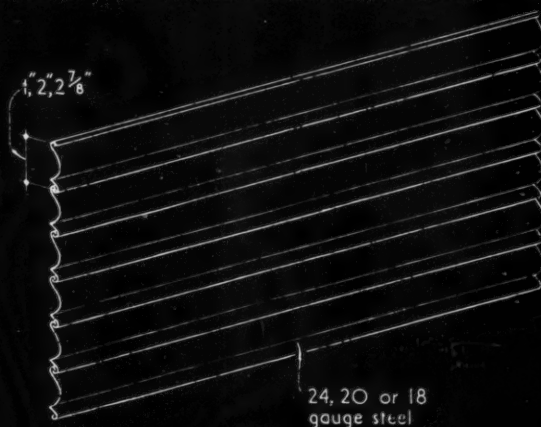
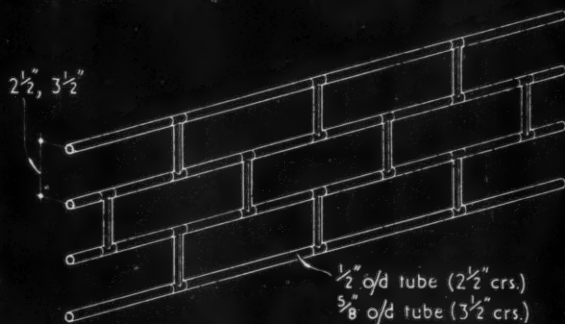
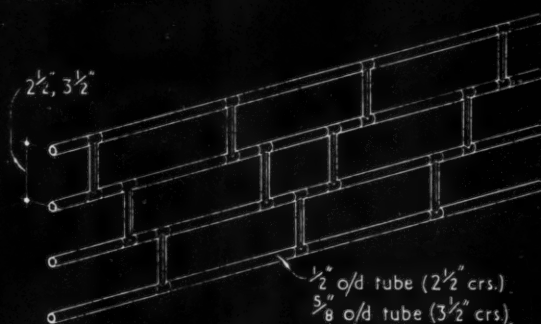
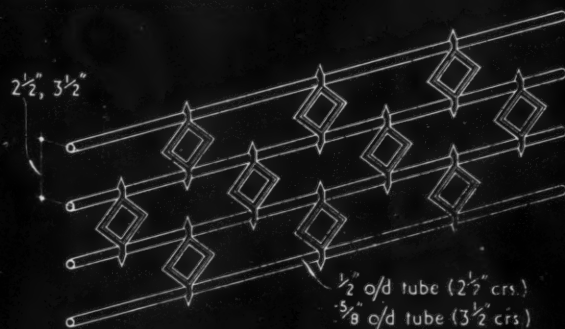
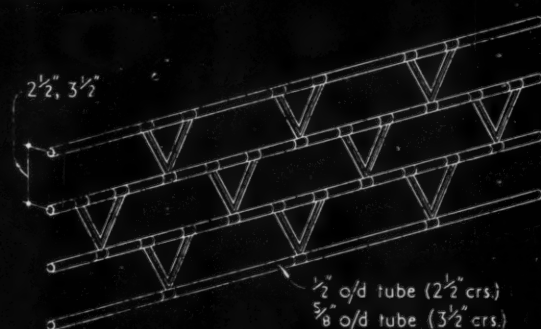
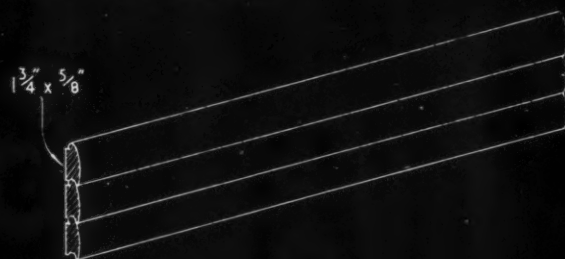
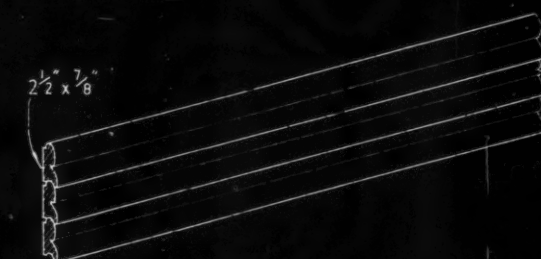




**DOORS | ROLLING SHUTTERS****23.H2**

The Architects' Journal Library of Information Sheets 154. Editor : Cotterell Butler, A.R.I.B.A.

graduated widths  
from top of shutter  
4¼" to 9¼" in  
increments of ⅜"

**ROLADOR.****INTERLOCKING.****PORTCULLIS: BRICKBOND.****PORTCULLIS: CHEVRON.****PORTCULLIS: DIAMOND.****PORTCULLIS: VEE.****TIMBER: MEDIUM CONVEX (NO.3).****TIMBER: DOUBLE REEDED HEAVY CONVEX (NO.4).**

## 23.H2 HASKINS ROLLING SHUTTERS AND GRILLES 2: ALTERNATIVE CURTAINS

This Sheet, the second of a series, illustrates different types of curtain for use with Haskins rolling shutters and grilles.

### Rolador

Constructed from 18 or 14 gauge steel slats which interlock throughout their length to form a continuous hinge. The slats are of graduated widths which enable them to interlock round the hexagonal spring assembly at the head, thus automatically strengthening the head member as the weight of the curtain increases. This principle enables Rolador shutters to be installed over single spans of up to 50 ft.

### Interlocking

Constructed from curved section slats of rolled steel strip in three sizes:—

- No. 0 ("Miniature" section) 1 in. crs. 24 I.S.W.G.  
 No. 1 ("Small" section) 2 in. crs. 20 or 18 I.S.W.G.  
 No. 2 ("Medium" section) 2½ in. crs. 20 or 18 I.S.W.G.

The interlock forms a continuous hinge throughout the length of the slats and removal of individual slats should they become damaged is easily effected. The ends of alternate slats are fitted with end locks to act as lateral ties and protect the edges of the curtain from wear. The end locks for No. 0 section are of stamped steel riveted to the slats and those for section Nos. 1 and 2 of malleable iron spot welded to the slats. Interlocking slats can also be constructed from duralumin.

### Portcullis

Constructed from horizontal mild steel tubes connected by malleable iron vertical links which are held in position by steel distance pieces. The grille can also be supplied in bronze or aluminium alloy. The bottom of the curtain is reinforced with a steel angle or tee.

### Timber

Constructed from slats of selected soft- or hardwood in seven sizes:—

No. 1. Square section	.. ..	½ in. × ¾ in.
No. 1A. Ogee section	.. ..	¾ in. × ¾ in.
No. 2. Small convex section	.. ..	1 in. × ¾ in.
No. 3. Medium convex section	.. ..	1½ in. × ¾ in.
No. 3A. Medium convex section, double sided	.. ..	1½ in. × ¾ in.
No. 4. Heavy convex section	.. ..	2½ in. × ¾ in.
No. 4A. Double reeded heavy convex section	.. ..	2½ in. × ¾ in.

Three types of curtain construction are available as follows:—

- Soft- or hardwood slats, securely glued to flax canvas and fitted with bottom rail and bronze metal base plate, suitable for No. 1 and 1A only.
- Convex section, selected soft- or hardwood slats connected by patent continuous steel hinges screwed and let flush into backs of slats. Bottom of curtains fitted with stout bottom rails and iron base plates. Bronze continuous hinges can be supplied where the shutters are exposed to corrosive fumes.
- Convex section, selected soft- or hardwood slats connected by flex webbing and tempered steel bands. Bottom of curtains fitted with stout bottom rails and iron base plates.

This Series of Sheets covers Rolador and curved slat type of interlocking steel rolling shutters, Portcullis rolling grilles and timber rolling shutters.

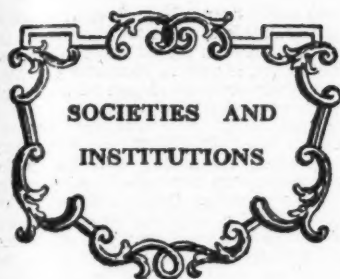
Compiled from information supplied by:

Haskins (E. Pollard & Co., Ltd.).

Address: Gnome House, Blackhorse Lane, Walthamstow, London, E.17.

Telephone: Larkwood 2622 (6 lines).

Telegrams: Sniksah, Walt, London.



*Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.*

## W. S. Atkins and Edward D. Mills

March 4. At the RIBA, 66, Portland Place, London. Extracts from the papers read by W. S. Atkins and Edward D. Mills on **STRUCTURAL TECHNIQUES** at the RIBA Conference on Industrial Architecture.

**W. S. Atkins:** The type of structure adopted will be dictated to a large extent by the functions of the building or structure. Considerations of heating, ventilation, lighting, maintenance, accessibility and so on are all factors which have to be considered before structural plans can be set up; and, thereafter, considerable skill is required on the part of the architect and the engineer to interpret these in such a way that maximum economy coincides with the most pleasing structure. The most common structural material in Great Britain still remains mild steel. With the advent of welding and careful consideration of outline, structural steel is gaining ground in aesthetics. In the ordinary multi-storey building there is very little to be said about appearance, since in the main this framework is covered. It is probable that in multi-storey office and warehouse buildings the high tensile steel welded rigid or continuous frame, with precast concrete casings, will offer one of the cheapest structural solutions. In workshop buildings of the pitched roof type the open portal frame is gaining ground. This gives a nice, clean outline and maintenance costs are reduced. It is essentially an outline for welding, even though in quite a number of cases riveting is still used. The outline can be used on any type of foundation. The continuous completely redundant frame, commercially known as the completely rigid frame, is suitable only for good foundations, but the same outline with the two-pin or three-pin arch is a better solution for poor foundations where settlement is to be expected. In multi-storey buildings there is not much yet to show in

structural steelwork apart from the simple beam and stanchion design, but there is no doubt that the continuous frame will supersede the simple design, and in the office type of building, where steel sections should be kept as small as possible, high tensile steel should have a wide use. Local authorities have been very slow to accept the continuous welded framework, mainly because their by-laws do not cover this class of work, but it is now readily recognized by most of the leading local authorities in this country that this type of construction is better and more economical than the conventional type, and permits are granted for this type of work.

An interesting example of multi-storey framework is the construction of the Nylon Spinners' factory at Pontypool. Here we have welded stanchions made up of plates for continuous girders to go over them. The very fine welded stanchions would have been exposed to view in the original scheme, and the continuous riveted girders running over the top pick up the secondaries. The arrangement of welded and riveted construction was to meet the manufacturing availability at the time. That is a very fine step forward in the use of welded stanchions and continuous girders. The architect was Sir Percy Thomas.

In reinforced concrete the use of continuous framework, even though based on very empirical formulae, has been admitted by by-laws, and in fact insisted on, for some time, so that in this respect reinforced concrete is in advance of structural steel. Flat slab construction, sometimes called mushroom construction, was fairly common before the war. It is a neat construction for warehouse and store buildings and shops, and is a very cheap construction. The principle of the construction is, of course, to do without any beams. In some jobs in America the columns have been taken straight up to the underside of the slab with no enlarged head at all. There is a steel frame beam put in the concrete just over the top of the column to bring the loads back on to the column head and deal with the heavy shears in the concrete slab immediately over the column heads. The Diagrid construction is less frequently met with. It is an advanced design which was used in a number of cases before the war. With the advent of pre-stressing, this will have a greater use. It is a grid frame with beams spanning in both directions and it can open up in very big spans, a comparatively shallow depth of beam covering bays of 40 feet or even greater. For general economic work the ordinary beam and slab type of construction in reinforced concrete is probably the best. This type of construction has been projected into the realm of precast concrete, and considerable strides have been made in this country. There are very few good examples of industrial construction in precast continuous reinforced concrete framework anywhere in the world, but there are buildings in this country using precast rigid or continuous framework. The columns are precast and the beams are precast. All the slabs are of precast units, finished off with *in-situ* topping to give a solid floor. There is little doubt that this sort of construction will be much more widespread in the near future. Probably pre-stressing will be superimposed on it, and the type of construction will probably advance. It is the cheapest form of construction in reinforced concrete for buildings of the type for which it is suited.

Next we come to single-storey buildings, and here we have a very wide range of engineering interpretation, due to the opinions of individuals or governed by the specific demands of the building. The single-storey building is possibly the commonest of the industrial buildings, and can be sub-divided into two classes: (i) the plain industrial building which does not carry overhead cranes, the simplest type of all, and (ii) the industrial building carrying heavy or light overhead electric cranes. The design basis of these two types is quite

distinct. For the more simple buildings we have the ordinary pitched roof, the flat roof or the north-light outline. With the pitched roof, the open portal frame is gaining popularity.

In the single-storey building without cranes, since we are dealing with buildings which have no racking or lateral forces, there is probably nothing between the two types with regard to life, and it does not matter whether you use an open portal frame or a roof truss job, but the open portal frame is very much cheaper to maintain than the roof truss job. In the case of the north-light type of roof, the conventional outline is very familiar to us, particularly in the standard factories which have been built up and down the country by various Ministries. There we have the usual untidy mass of roof framework cluttering the whole of the roof space in many cases, but it is possible to have north-light construction with all the framing confined to the slope of the rafters. The girders are laid in the rafter level both for the north slopes and the south slopes, and there is no steelwork inside the building except in one longitudinally-braced bay. This is an easy solution for big spans without having a multiplicity of framing, and it is clean and light. The main members of each truss frame which lie in the rafter plane are jointed with a rigid joint at the top and at the bottom, so that up and down the slope you get a continuous framework. That is a very light type of structure and rather flimsy to erect, but once it is up it is probably stronger than the conventional type.

There is not much to be said about the flat roof single-storey industrial structure except that when the building houses cranes the continuous framework has a marked superiority over the more simple design, because it gives greater rigidity of structure and ability to maintain crane track lines. In the other single-storey buildings which we have just discussed some advantage may be found from the point of view of economy by the use of high-tensile steel, particularly in a welded frame, but for buildings which have to withstand considerable longitudinal and lateral forces, as when housing cranes, the advantage of the use of high-tensile steel may not be obtained. In a properly-designed building of this type, using a continuous crane and continuous crane girders, which is the ultimate ideal for this type of structure, consideration must be given to the inertia of the framework in relation to its ability to absorb the energy of the forces imposed on it. Probably the most modern example of big single-storey construction is the Brabazon hangar, which is a fine example of modern structural work in a single-storey building. It is an exceptional job, of 300-ft. span. Interlacing stanchions are used where the two arches meet to minimize the space taken up by the legs of the open-arch frames.

In reinforced concrete single-storey buildings little has been done by the *in-situ* method, mainly because it was so costly, but with precasting a number of methods have come into being since 1939. The very simple type of Ministry of Works hut is familiar, but this is limited to small span jobs. Some of the later developments in the use of precast reinforced concrete framework in single-storey buildings are interesting, and use both the ordinary pitched roof and the north-light roof. Probably more is being done on sound engineering lines with this type of construction in this country than anywhere else in the world. Another type of framing in reinforced concrete is the barrel vault or dome type, which may be widely used, but I usually find it difficult to get over the question of cost. It fulfils, however, a particular function in industrial structures. Like so many other media, it is not a universal panacea, but it can be used with advantage in particular cases. In reinforced concrete



construction, pre-stressing has come very much to the fore recently, and has received much support from Ministerial circles because it is expected to save tremendous amounts of steel. More work has been done on the Continent in pre-stressed work than in this country, though the precast sleepers which are being manufactured over here are familiar to us. There is a big future for pre-stressed concrete structures, but a great deal of work has to be done before their application can be general and before the cost of this form of construction can be made competitive. It is applied in the main to precast work at present, mostly involving simple design. Not much has yet been done in providing continuity. One advantage of pre-stressing is where you have an industrial structure which is subjected to a very severe, aggressive atmosphere, so that the elimination of hair-cracks is an important point. It is possible to treat the face of the concrete against acid fumes and so on successfully, but if hair-cracks open up there will be an attack inside the beam, particularly against the steel. Pre-stressing eliminates that.

**Edward D. Mills:** The first group of structural techniques is concerned with the use of structural steelwork. This material is widely used for factory construction in the form of a structural frame with supporting stanchions at frequent intervals and north-light roofs for single-storey buildings, and either flat or pitched roofs for multi-storey buildings. Some local authorities require structural steelwork to be encased in concrete to minimize fire risk, and at this point reinforced concrete becomes a serious competitor on grounds of cost. Recent development in the design of structural steel factory buildings has enabled larger areas to be spanned with fewer supporting columns, and improvements such as monitor roof lighting are, in certain cases, superseding the old north-light roof with considerable improvement in appearance and better and cleaner internal conditions. The use of welded steel, high-tensile steel and light tubular sections for trusses and beams not only improves appearance but saves steel weight and can assist in the reduction of maintenance costs. Open structural steel roof construction has the advantage of lightness, ease of construction and economy of cost, but where corrosive conditions exist, as in chemical factories, and where small steel sections may corrode in a relatively short time, alternative methods of construction should be considered. On the subject of multi-storey buildings with steel frames, most of the points already raised in connection with single-storey buildings apply equally, but one additional point should be considered. A framed building of any type, particularly one using structural steel, should be planned on a unit grid so that standard spans and column spacings are used throughout, and very large spans on ground floors should be avoided unless absolutely essential for the sake of economy.

The next group are structural methods which concern the use of reinforced concrete, and the normal beam and column construction in RC with a flat concrete or hollow tile floor or roof slab is the best known method of concrete construction; it has the advantage of clean lines, no exposed steelwork and therefore no painting maintenance, and it uses  $\frac{1}{2}$  to  $\frac{3}{4}$  the tonnage of steel required for an equivalent steel-framed building. In order to make use of standard steel shuttering and to ensure an economical use of reinforcing steel, column spacings should be kept to reasonable dimensions, and planned on a regular grid, the beam and column sizes kept to standard dimensions as far as possible. Normal beam and column RC can be used for single- or multi-storey factory buildings where relatively close column spacing is not a dis-

advantage. Where multi-storey buildings are required for warehouses, packing rooms, etc., with large continuous open floors, reinforced concrete flat slab construction—commonly known as mushroom construction—offers many advantages. This combination of flat slabs and columns has been developed to utilise the particular advantages of *in-situ* reinforced concrete. This type of construction provides a smooth, level ceiling, without projecting beams, and floor slabs can be cantilevered beyond the outer columns so that external walls can be constructed of lightweight materials. Flat slab buildings should be planned with a regular column grid with bays nearly equal in both directions. The bays should seldom be less than 20 ft. long; they can exceed 30 ft., but this should be regarded as a reasonable upper limit for normal structures. This type of construction is not suitable for buildings that are very narrow, irregular in shape or cut up by partitions or large openings in the floors.

One of the most outstanding developments in reinforced concrete technique of recent years is shell membrane construction, which allows large areas to be roofed using the minimum of supporting members, and has in its varied form many features of interest in relation to factory buildings. Shell concrete uses to the best advantage the strength properties of reinforced concrete, and as the average thickness of a shell roof is only 2½ inches, the saving in dead weight is therefore considerable. The most common form of shell concrete is in the construction of cylindrical barrels curved in one direction only. The essential feature of this form of construction is the thin curved *in-situ* reinforced concrete membrane, held to a cylindrical shape by comparatively rigid stiffening beams at suitable intervals. The relation between the intervals of the stiffening beams and the chord width of the barrel can vary over a wide range, and is used to define the type of barrel. At one extreme is the cross barrel, where the stiffening beam interval may be as much as four times the chord width, and at the other—the longitudinal barrel—where the stiffening beam interval may be as small as half or less of the chord width. Generally speaking, cross-barrels are used for smaller spans up to 100 ft., while longitudinal barrels are used for spans from 100 ft. up to as much as 250 ft. With the larger spans the stiffening beam becomes an arch rib with the shell membrane spanning between the ribs at 30 to 50 ft. intervals. One of the chief economic advantages of shell concrete construction is the very considerable saving in the weight of steel used; in general about 50 per cent. of the steel required for normal construction is used in a barrel vault roof of similar area and layout. Any type of building where a large open space, free from supporting columns, is required, forms a suitable subject for shell concrete construction, and where a series of standard bays are required for warehouses, stores, etc., a number of runs of small span cross-barrels can be used to cover any area. Roof lighting can be easily arranged in the shell structure by a variety of means, including glass domes, continuous lanterns, or glass lenses over the whole barrel. Natural light can also be obtained from windows in the walls of the building or through the end stiffening beams. The even curve of the barrel reflects the light, and better and more even daylighting can be obtained with smaller areas of roof glazing than are required in a normal type of structure. The curve of the roof also assists artificial lighting by providing a natural reflective surface. In future factory construction the shell concrete north-light roof has much to commend it apart from its improved appearance over the more traditional steel north-light roof. Concrete shells can also be constructed in the form of domes, or using a shell curved in two directions on a rectangular plan. A factory with a number

of such shells over a large floor area, utilising the spandrels for vertical glazing and incorporating circular glazed lights in the roof of the domes, is now in course of construction in Brynmor to the design of the Architects' Co-operative Partnership.

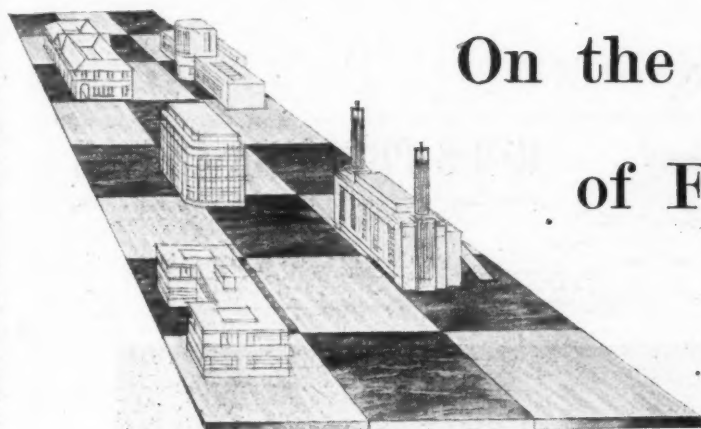
The possibility of precasting concrete shells has been considered, and during the war precast cylindrical concrete shells, each covering an area of 16 ft. 6 in. by 33 ft., were mass-produced and used in the construction of a large steelworks in Upper Silesia. So far, no example of precast shell concrete construction exists in this country, but there are considerable advantages in the development of this form of construction, particularly in view of the shortage of shuttering timber, and it is hoped that experiments will be made in the near future. For single-storey factory buildings, a system of precast three-pin portal frames has been developed which can bridge single spans of from 8 ft. to 150 ft. The roofs may be pitched, curved or flat, as desired, and the system is simple in construction and erection. Only two main structural elements are required, the frame and the purlin, and the sizes of these should, of course, be standardized, so that they are repetitive throughout the building, making for considerable economy in cost. Where quick erection is essential, and a light, clean factory building required at reasonable cost, this precast concrete system has much to commend it. Maintenance costs are reduced to a minimum, and the units can either be precast on the site for larger spans or precast in a factory and delivered to the site ready for erection in the case of smaller spans. It is claimed that a saving of 70 per cent. of the steel used in an equivalent steel-framed building can be made in this way.

So far little reference has been made to the cladding of buildings or the technique of covering a structural framework, either steel or concrete, where walls and roofs are used simply as protection against rain, heat and cold. This must be considered in any discussion on structural techniques for factory buildings. While many industrial buildings will require concrete, brick or other form of solid walling, thin composite skins can often be used, built up of a weather-resisting external surface, an inner wearing surface and a core of thermal and sound insulating material. To suggest a few possibilities for external weathering surfaces, the following could be used: light pre-cast concrete units, asbestos cement sheets in a variety of sections, light alloy sheets, steel sheets, resin-bonded plywood and glass, either clear or opaque. These materials all have a high thermal conductivity value, and therefore to avoid high heat losses precautions must be taken in the form of adequate thermal insulation. There is a wide range of efficient insulation materials available, and all these materials have their own special merits and are suitable in certain conditions. Lightweight cladding of this type for walls, roofs and even internal partitions can be factory-made in unit panel form and simply fixed to the structural framework on the site. Lightweight cladding has been used for many years on industrial buildings in the form of corrugated iron and asbestos cement sheeting for walls and roofs, but with so little imagination and so little real understanding of its possibilities for architectural treatment that it is now often unreasonably condemned.

When a factory is designed with non-load-bearing walls, properly designed lightweight cladding should be considered; important factors being (1) the design of the fixings to the structural frame; (2) the weathering at the junction of sheets or panels; (3) the external surfacing material in relation to atmospheric conditions; (4) the internal surfacing material in relation to conditions of wear within the building, and (5) the all-important factor of adequate sound and heat insulation.



# On the question of Floor Surfaces



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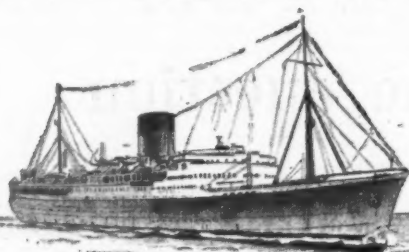
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## TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

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#### 4.46 planning: urban and rural

##### EXPERIMENTAL RESIDENTIAL UNIT, ITALY

The 8th Triennale of Milan and its Experimental Town District. (Metron, Italy, No. 26/27, 1948, pp. 13-22.)

Special issue of progressive Italian architectural and planning journal devoted to full description of 8th Triennale (conference and exhibition). Sections on decorative arts, building technique, town planning and housing. Fully illustrated.

This description of an experimental town district, called QT8, is of particular interest in view of a similar though smaller unit contemplated for the British 1951 Exhibition. QT8 is a self-contained urban unit of a consistent architectural pattern, and has been designed as a permanent experimental exhibition of modern architecture.

The project was carried out with the assistance of numerous public agencies. The town of Milan undertook the installation of public utility services and provided funds for housing. The Ministries of Public Works and of Post-War Assistance provided additional housing funds. Important help was given by the National Research Council, providing an office for research and control, and by the Institutes of Hygiene of the Italian Universities. A special meteorological office was set up to carry out investigations into urban climate.

Private contributors included architects submitting special housing projects, technicians proposing new building methods, contractors who were able to provide the industrial set-up for prefabrication methods, financial groups desiring to invest funds in the building industry, and, lastly, industrial groups who wished to provide houses for their employees.

QT8 covers a total area of approximately 163 acres. It consists of four residential units with an average of 3,300 persons to

each. There are four major roads, two of which are of recent construction. Each of the communities is served by one major road and by minor roads and paths for pedestrians only. Kindergarten, nursery, community centre, shops and playing fields represent the essential communal facilities for each unit, while schools serve two units. A civic centre is located at the junction of the four communities and includes a church as well as commercial and recreational facilities, all of which are designed to cater for about 13,000 persons. Open spaces cover roughly 47 acres, working out at 18 sq. yds. per head. There are provisions for a sports centre comprising playgrounds and stadia for the whole district. Housing types consist of multi-storey flats, detached single family houses and terraces, and are fully described.

#### 11.14 materials: general

##### REPAIR AND PRESERVATION OF MASONRY

Repair and Preservation of Masonry. J. A. Wright (RIBA Journal, Jan., 1949, pp. 121-125).

Article by the architect in charge of the Ancient Monuments Department of the Ministry of Works describing methods of repair and consolidation of masonry carried out by the department. Illustrated by photographs.

Descriptions are given of the treatment of wall tops showing methods of throwing off the water to stop the disintegration of the heart of the wall; also treatment of exposed core surfaces by the method known as rough-racking; filling or bonding together of fractures and voids. In all the above aspects of the work great care is taken that the character of the wall is not impaired by unsympathetic handling. The system of grouting known as gravity grouting is described at some length, and a clear diagram of the apparatus used is included.

In discussing pointing, the author points out that modern cement pointing should be removed and care taken to use a mortar which is resilient enough for the type of stone and which is in keeping with the colour and texture of the work.

#### 15.46 materials: applied finishes and treatments

##### CELLULOSE ENAMEL

Cellulose Enamel on Interior Walls. (The Decorator, December, 1948.)

Discussion of the advantages and disadvantages of cellulose decoration particularly for use in bathrooms and kitchens.

In the article it is stated that cellulose enamel is fast-drying, allowing two or even three coats to be applied in one day; it dries by evaporation of the solvent and there is no relying on atmospheric conditions; its hard smooth film does not hold dirt; it is chemically inert and not damaged by alkaline soaps and has good resistance to moisture; does not sustain bacterial life.

Against these advantages must be considered: the necessity of obtaining spraying equipment; the high initial cost because the thinness of the paint film makes more coats necessary; and, most important, the disadvantage that cellulose enamel does not

adhere very well when applied direct to plaster, a special priming coat being necessary.

It is pointed out that cellulose has been recommended for use on new plaster as it is chemically inert and not subject to saponification. However, the pigments are not always lime-resisting which may lead to discoloration. Also, because the paint film is impervious adhesion cannot be good where there is an excess of moisture which has still to dry out.

#### 17.50 construction: general

##### HOUSE CONSTRUCTION

House Construction. Third Report. Post-war Building Studies No. 25. By an Inter-departmental Committee, appointed by the Minister of Health, the Secretary of State for Scotland and the Minister of Works. (HMSO, 1948, 2s.)

Notes on thermal insulation, foundation, site organization, general recommendations for alternative systems of house construction. Description of and comments upon ten different types of houses. List of alternative systems comprising 101 items.

This is the third and final report of the Burt Committee (see 1516:29.6.44 and 2643:1.8.46). Whilst in the first report an attempt was made to establish a set of standards of habitability, the second and third reports are mainly concerned with an analysis of a number of non-traditional types of houses on the basis of these standards.

The selected representative examples described in the third report are as follows: Systems employing concrete: (1) Orlit; (2) Wates; (3) Ayrshire County Council (known as Whitsun-Fairhurst); (4) Woolaway; (5) Wimpey.

Systems employing steel frame: (6) Coventry Corporation; (7) Riley.

Other systems: (8) Smith's Building Systems (British Steel Construction); (9) Spooner; (10) Scottwood.

Most of these systems have already been described in the technical press and mentioned in Information Centre. Six of them have also been the subject of the experiments referred to in Information Centre (see 17.44).

Among the examples the following main groups of non-traditional houses, characterized by the different method of wall construction, are represented:—

(1) Framed structure with non-load bearing panels. (Orlit, Whitsun-Fairhurst, Woolaway, Coventry Corporation, Riley, Spooner.)

(2) Prefabricated load bearing panels. (Wates, Smith.)

(3) Cast-in-situ concrete. (Wimpey.)

(4) Stressed skin. (Scottwood.)

The floor and roof construction of the houses are much less characteristic, since most systems are adaptable to alternative types of floors and roofs. An exception from this rule is the Scottwood house, where the floor and roof units are similar to those used in the external walls and partitions. Indeed, the Scottwood house has many features which distinguish it from all other types included in the report, the most valuable being its extremely high thermal insulation, far in excess of that achieved by any one of the other systems. Its other important advantage is the speed and ease of erection. It is understood that the carcass of the prototype was erected by a small gang in two normal working days, owing to the large size of the panels and the high degree of accuracy achieved in manufacture. Thus, the Scottwood house is perhaps the best approach to the idea of "prefabrication." Its greatest shortcoming from the point of view of habitability is its comparatively low standard of sound insulation. Also exposure hazard falls short of the recommended standard, so that caution is necessary in the grouping of such houses.



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The standards of strength and stability recommended in the first report have been reached without difficulty in nearly all the schemes submitted to the Burt Committee. Either the thermal or the sound insulation or both of most prototypes was sub-standard and in many cases it was possible to make improvements at a comparatively low additional cost. None of the systems analysed scores 100 per cent. marks, but most of them represent a higher standard of habitability than the traditional brick house.

The report emphasizes the desirability of improved thermal insulation and demonstrates by numerical examples that money spent on this item is a good investment. Other important points in the report are the general recommendations with regard to alternative systems of house construction and notes on foundations. Particular warning is given of the danger of volume changes of heavy clays that can be caused by a succession of dry years and by fast-growing trees.

The list of alternative systems of house construction is an impressive evidence of the great effort made in this country to build by non-traditional methods. Although it comprises 101 items it is not complete, e.g., it does not contain the cast-in-situ foamed slag concrete house, the house built in foamed slag hollow blocks and several other systems described in the technical press. A prototype of a cast-in-situ foamed slag house was built by the MOW at Northolt (see AJ for 12.10.44) and the system was used in a housing scheme by Chesterfield RDC. The foamed slag hollow block house was described and illustrated in AJ for 15.2.45 and was adopted by the City of Salisbury and elsewhere.

#### 24.106 Lighting LIGHTING AS AN ART

*Beyond Engineering.* J. M. Waldram (Presidential Address, Trans.I.E.S. [Great Britain], No. 10, 1948).

Reviews present position in all chief branches of lighting; great stress on lighting as aesthetic matter. Very good.

As a review, this paper discusses the origins of illuminating engineering as such, and traces development from the two parents, optics (i.e., vision) and photometry, very briefly but succinctly to their present

state. As a review it is competent and interesting.

But in its analysis of relations of engineers to architects, and of the transcending importance of aesthetics in lighting, the paper attains quite exceptional standards. The author is the son of a man well known in our profession, and we should be grateful for this leadership of his profession towards our own. Moreover it is very amusing. Consider this, on the theme that technical knowledge, however complete, can never of itself produce beauty. He quotes the line:

"My love is like a red, red rose" and asks, would it have helped had the author, with the aid of modern science, been able to say with more precision:

"My love is like a rose (*rosa centifolia*) Whose colour is defined by  $0.7x/0.3y$ ."

The author remarks weaknesses among architects in holding, of necessity, the central position, without having proper knowledge. But he clearly sympathizes with their inevitable predicament in the slow evolution of knowledge on the psychological and physiological factors which bulk so large in understanding emotional and other such objectives of lighting design. For this reason he devotes an important part of his paper to the present state of knowledge in these fields.

Architects who read this will not only know more about lighting, but more about their own professional standing in the matter.

#### 26.46 services and equipment: miscellaneous PRIVATE TELEPHONES

*Telephones & Telegraphs. Private Services.* BS Draft C of P 327.102:1949. (British Standards Institution, 5s.)

Description of systems and installations.

The code describes fully the various systems and types of instrument which are available for private telephone and teleprinter services, and also ancillary equipment such as manual and automatic telephone switchboards. Guidance is given on the selection of suitable systems, structural design, power supplies and testing equipment. Concise information on internal and external cabling and wiring, both overhead and underground, is included together with advice on earthing.

Recommendations are made on the provision of adequate space for location of all the types of equipment with which the code deals, and on inspection, testing and maintenance. Two appendices deal respectively with the segregation of circuits and with available types of cables and wires known to give satisfactory service.

*This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.*

## QUESTIONS AND ANSWERS

### 2981 SOAKAWAY

**Q** In laying out the drains to my house in a rural area it would be much cheaper to drain some of the rainwater to a soakaway at the back of the house than to bring it round the house into the main drains. Would this be permitted?

**A** It is permitted in rural areas to drain rainwater into a soakaway, but its position and construction would be subject to the requirements of the local authority, who also might specify that it must be kept an adequate distance from any well.

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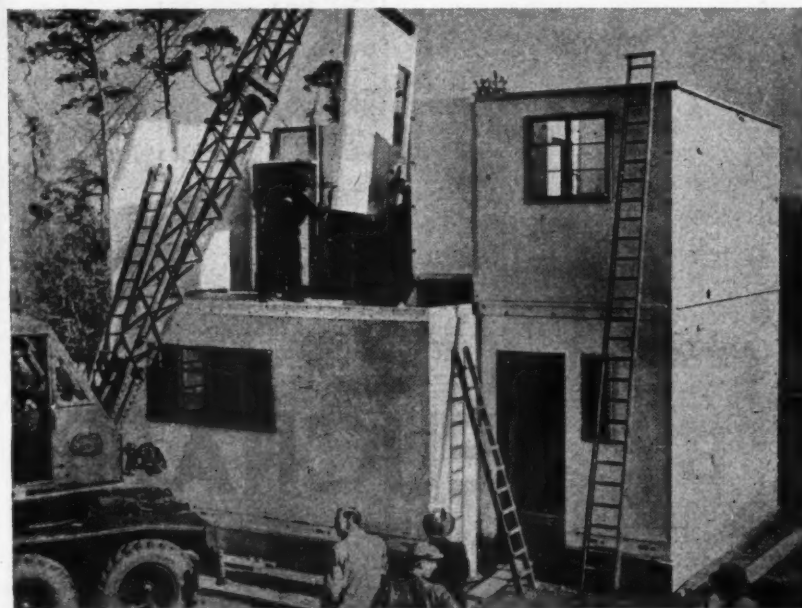
*Please ask manufacturers to send further particulars to:—*

NAME.....

ADDRESS.....

AJ.17.3.49

BLOCK LETTERS, Please



Scottwood House under construction. See 17-50.

## Announcements

The Mond Nickel Company, Limited, announce that on March 28 they are moving their head offices from Grosvenor House, Park Lane, to Sunderland House, Curzon Street. After that date the address of the head offices of the Mond Nickel Company, Limited, Henry Wiggin & Company, Limited, and Mond Nickel (Retirement System) Trustees Limited, will be Sunderland House, Curzon Street, London, W.1. Telephone: Grosvenor 4131. Telegrams: Nicatino, Telax, London.

A branch of the Reinforced Concrete Association is to be established to serve the counties of Cumberland, Westmorland, Lancashire, Cheshire, Flint, Denbigh, Merioneth, Caernarvon and Anglesey. Its object is to bring together professional, scientific and industrial interest "to promote, encourage and improve the art, science and practice of reinforced concrete design and construction and all operations and expedients connected therewith." All members of the association in the area will, *ipso facto*, become members of the branch, and members outside the area but within reach of Manchester or Liverpool, where the meetings will generally be held, may join. The chairman of the branch committee is Mr. G. W. Stokes, and Mr. C. H. Tarr is vice-chairman. The honorary secretary, from whom further particulars may be obtained, is Mr. S. Williams, 18, Monksdale Avenue, Urmston, Manchester. The inaugural meeting will be held at the Manchester College of Technology on March 30.

Messrs. Heasman & Co., surveyors, Broadmark Parade, Rustington, are urgently in need of up-to-date trade catalogues and literature at the above address.

The Board of Trade announce a relaxa-

tion in control of home produced and imported building boards. As from March 7 home producers of building boards will be given bulk licences permitting them to deliver or convert without restriction any quantity of their own boards. The purchase of building boards overseas reverted to private trading on the same date. Import licences will be granted for consignments of 50,000 square feet or more on condition that the importer buys from the paper control's stocks twice the quantity imported. Imported building boards are released from price control by an amendment order.

The Brick Charges Revocation Order, 1949, which came into force on February 28, abolished from October 1, 1948, the levy first imposed in May, 1942, on all building bricks sold. The levy was originally established on the advice of the Simmonds Committee to provide money for the care and maintenance of brickworks closed under the concentration of industry schemes.

The Board of Trade announce that no more units will be issued for the purchase of utility furniture.

Applications are invited for the welfare fund scholarships of the Building Apprenticeship and Training Council. Scholarships will be tenable for three years at a university or technical college offering a degree or higher diploma course in building science. Candidates for university courses must be at least 17 years old, or 16 for diploma, on April 1. Application can only be made through the principal of the educational institution at which the candidate is attending or has attended. The closing date for receipt of recommendations is April 1. Written examinations will be held on April 26 and 27 in London, and if necessary in other towns, and from the written papers selected candidates will be called to London for interview on May 26.

Mr. Ronald Hardy, M.B.E., B.A.R.C.,

A.R.I.B.A., has opened an office at 20, Lowndes Street, London, S.W.1 (Telephone Sloane 3668), and will be pleased to receive trade catalogues.

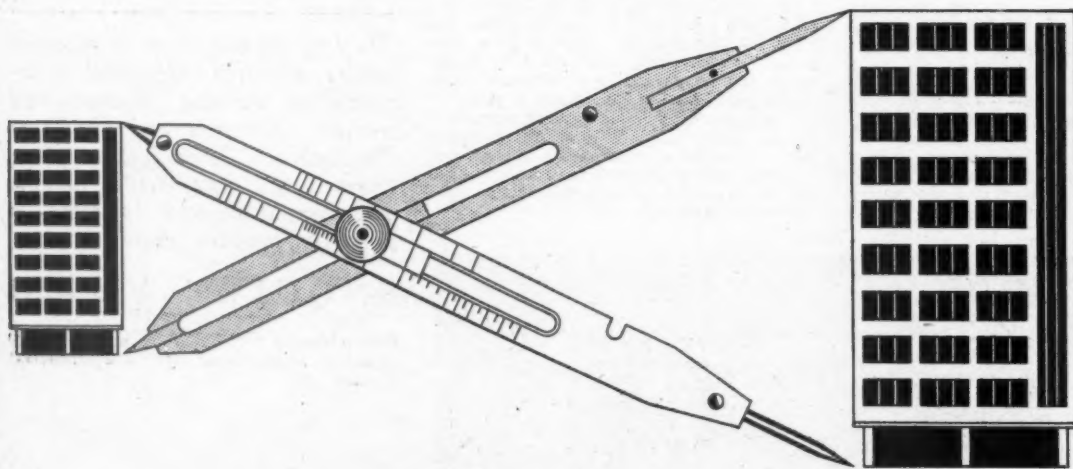
## Buildings Illustrated

*Flats at Dombey Street, Holborn* (pages 255-258.) Architects, Robert Hening and Anthony Chitty, F.R.I.B.A., A.M.T.P.I. General contractors, William Moss & Sons, Ltd. Sub-contractors: Floors and staircases, Kleine Co. Ltd.; steelwork, Dorman Long, Ltd.; lifts, Hammond & Champness; windows, Crittall; heating and hot water, G. N. Haden & Sons; plastering, Telling Ltd.; ironmongery, Yannedis & Co. Ltd.; sanitary goods, J. Young & Co.; railings, etc., Bayliss, Jones & Bayliss; drying cabinets, Hounslow & Co.; wood blocks, Vigers Bros.; composition floors, Monarch Flooring Co.; flat roofing, Standard Flat Roofing Co.; radio, London Rediffusion Service Ltd.

## Corrigenda

The architects for Unity House, illustrated on page 238 of our last issue, were Messrs. Kendrick, Findlay & Partners.

In the caption to the photograph on page 199 of the JOURNAL for March 3, we stated that the houses at Crawley, Sussex, were designed by A. G. Sheppard Fidler. This is incorrect. The houses were designed by Godman and Kay, Chartered Architects, Horsham.



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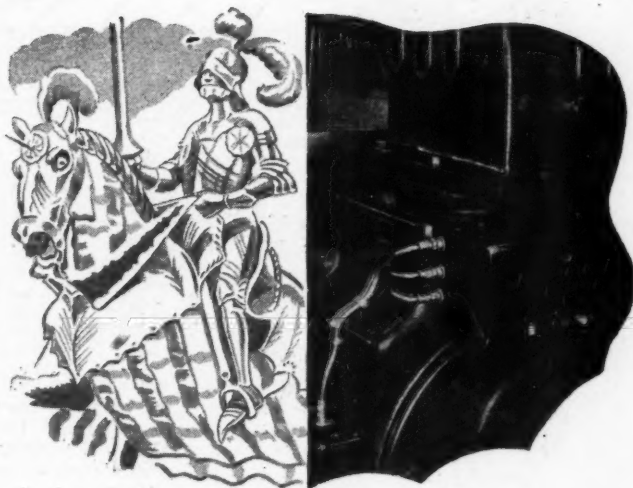
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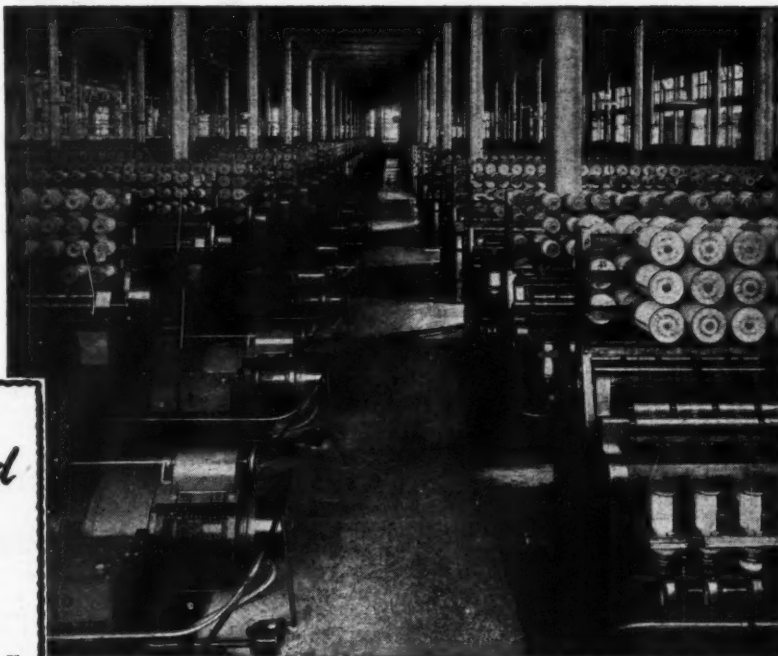
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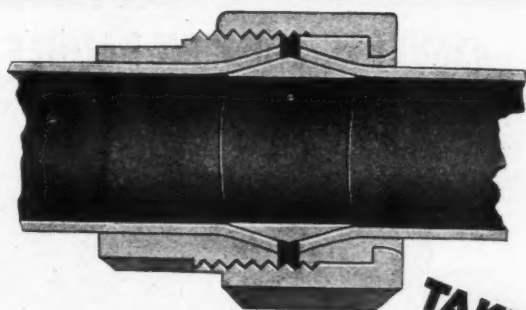
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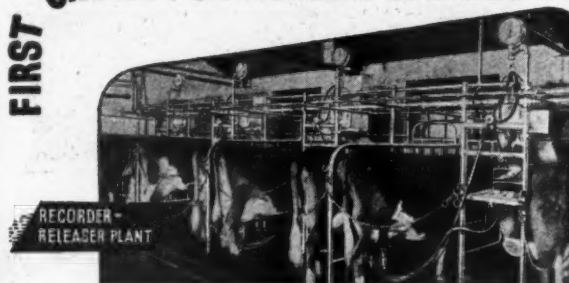
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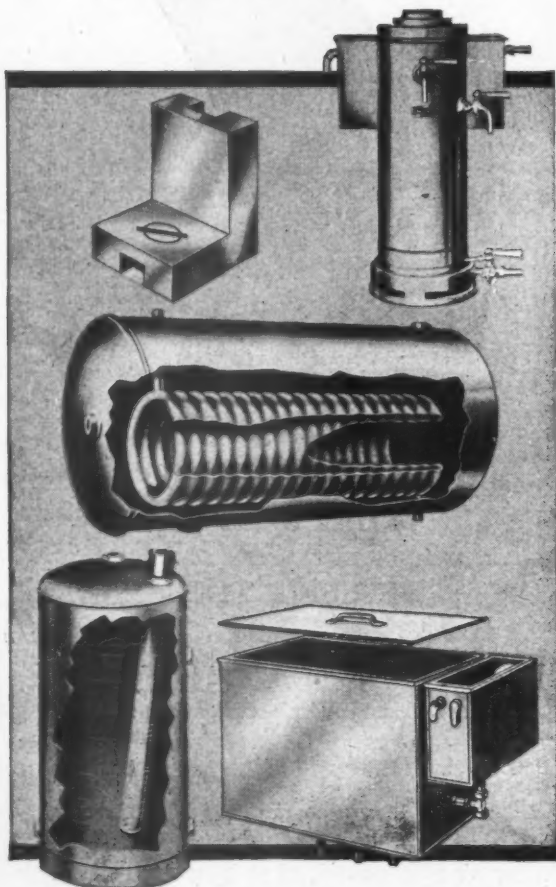
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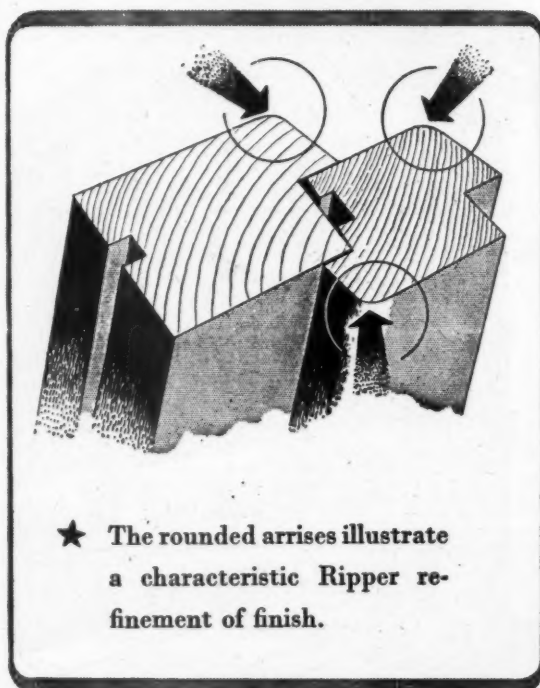
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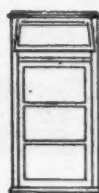


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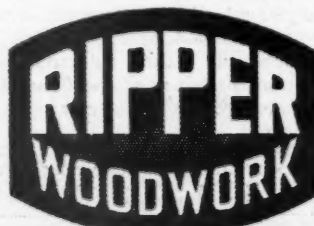
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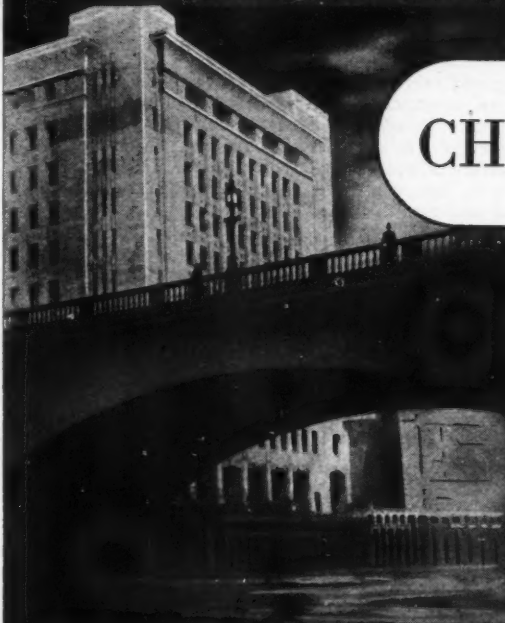
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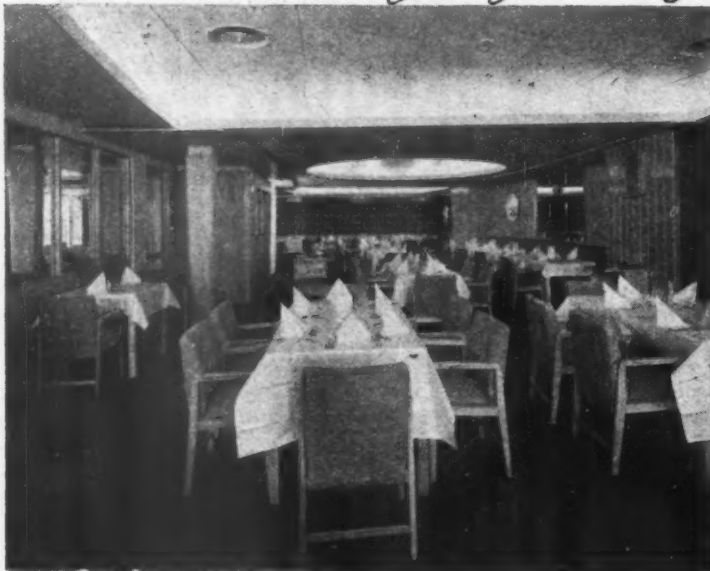
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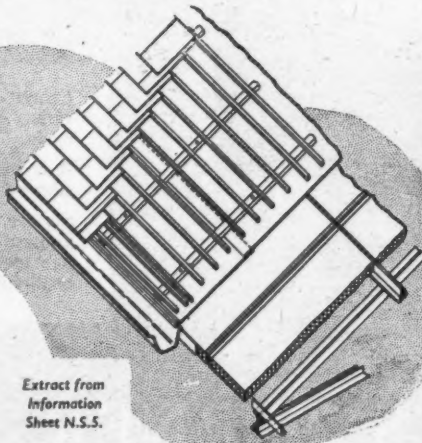
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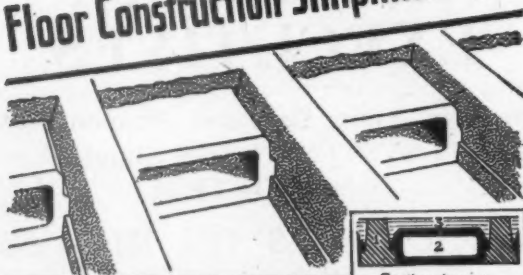
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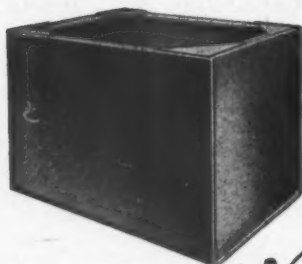
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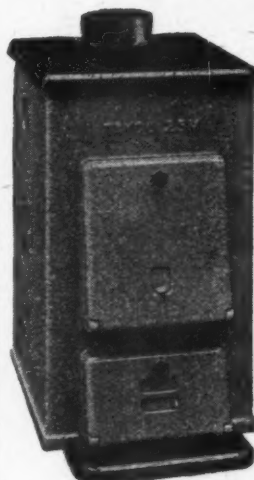
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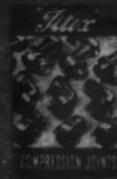
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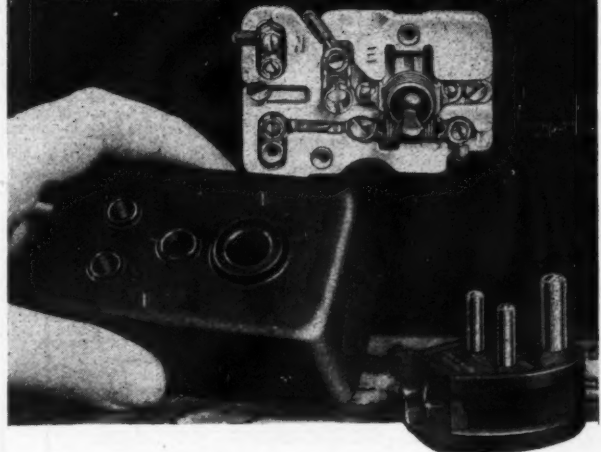
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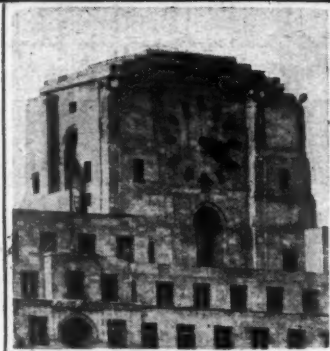


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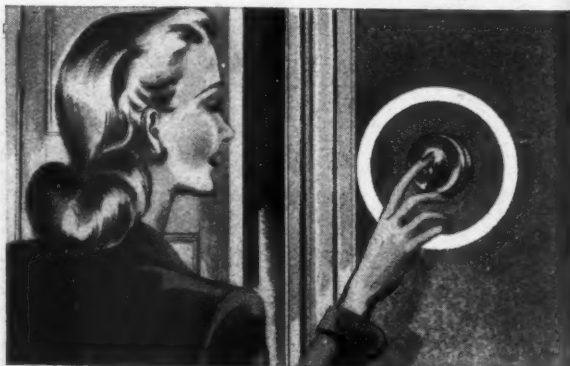
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## CLASSIFIED ADVERTISEMENTS

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

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

Available only to applicants accepted from the Control of Engagement Order, 1947.

## Public and Official Announcements

21s. per inch; each additional line, 2s.

**THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS** maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: **EMPLOYERS' REGISTER, WEST PARK, WYTHLEAF, Tel.: Uplands 0935. 991**

### LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £580 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2269) 1046

### CORPORATION OF GLASGOW.

#### HOUSING DEPARTMENT.

Applications are invited for the undernoted appointments:—

ASSISTANT ARCHITECTS. Grade I.

ASSISTANT CIVIL ENGINEERS. Grade I.

ASSISTANT QUANTITY SURVEYORS. Grade I.

Salary scale, A.P.T., VI, £595-£660.

ASSISTANT ARCHITECTS. Grade II.

ASSISTANT CIVIL ENGINEERS. Grade II.

ASSISTANT QUANTITY SURVEYORS. Grade II.

Salary scales, A.P.T., I, III and V: £390-£435, £450-£495; £520-£570.

Appointments to Grade I will be restricted to those candidates who are members of the appropriate professional body. For appointments to Grade II applicants should have passed the Final examination of the appropriate professional body or should hold an equivalent qualification.

In the case of Grade II appointments, the commencing salary will be fixed according to age and experience.

The appointments will be to the permanent Establishment of the Department, and are subject to the provisions of the Corporation's Superannuation Scheme. Successful applicants will require to pass a medical examination.

The appointments are terminable on either side by one month's notice in writing.

Applications, indicating the position applied for, and stating age, particulars of training, experience and qualifications, should be addressed to the undersigned, and should be received within 14 days of the publication of this advertisement.

A. G. JURY.

Director of Housing.

Housing Department, 20, Trongate, Glasgow, C.1.

### SURREY COUNTY COUNCIL.

#### KINGSTON SCHOOL OF ART.

Applications are invited for part-time teaching appointments in the following capacities in the Department of Architecture, Kingston-upon-Thames School of Art:—

STUDIO INSTRUCTORS, BUILDING TECHNICIAN, LECTURER IN HYGIENE, LECTURER IN ACOUSTICS, AND SOUND CONTROL.

Applicants should be suitably qualified, and architectural school experience will be an advantage. Payment is at the rate of 14s. per hour for Studio Instructors, and 17s. 6d. per hour for Lecturers, plus travelling expenses.

Applications should be made by letter to the Principal, Kingston School of Art, Knights Park, Kingston-upon-Thames 2075

**HEATING, VENTILATING AND ELECTRICAL ENGINEERING DRAUGHTSMEN** urgently required. The minimum qualifications, at age 21, are that the applicants shall have had, at least, four years' Heating and Ventilating and Electrical Engineering experience or apprenticeship in an industrial or Government undertaking, or alternatively with a reputable Installation Contractor, of which at least one year should have been spent on drawing office duties. Candidates will be required to produce evidence that they have undertaken or are undertaking a recognized course of study advancing to the standard of National Certificate or equivalent.

Applicants who have reached a higher standard and who are capable, without undue supervision, of initiation and design of moderate sized schemes, preparation of specifications and estimates, analysis of tenders and technical correspondence, and who have reached a level of study equivalent to Higher National Certificate Award, are preferred.

The commencing salary for these posts at age of 21 years is £283 per annum, rising to a maximum of £495 per annum. Entering salary is increased by £20 per annum for each year of age above 21 years, subject to a maximum commencing salary of £420 per annum. The posts are at Cambridge. Although these posts are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Apply to Ministry of Works (R.D.1 Estab.), Shaftesbury Road, Brooklands Avenue, Cambridge. 1664

**ARCHITECTURAL ASSISTANTS** urgently required. Qualifications: At least three years' Architectural training, and, preferably, some experience in an Architect's office. Ability to carry out under supervision working drawings of smaller works from prepared sketch plans, and elevations. Knowledge of subsidiary duties common to an Architect's office. Some testimonies already accepted and/or in a position to sit for the Intermediate examination of the Royal Institute of British Architects.

**STRUCTURAL ENGINEERING ASSISTANTS** urgently required. Qualifications: Basic knowledge Static Mechanics, properties of materials, and structural detailing and design obtained over a period of not less than three years at a Technical College, plus one year in a Structural Engineer's office, or four years in a Structural Engineer's office supplemented by Technical Classes. Capable of site surveying, dealing with specifications, and making reliable reports.

**SANITARY ENGINEERING ASSISTANT** urgently required. Qualifications: Three years as an Apprenticed Practitioner Assistant in a Civil Engineer's Drawing office and three years' part-time study in Engineering subjects, including drainage and water supply; three years' full-time study in Engineering subjects, including drainage and water supply, and at least one year's experience in a Civil Engineer's Drawing office. Ages above 21, corresponding advanced knowledge, experience, and drawing office technique are required. Preference given to candidates who have passed for Associate Membership of the Institution of Sanitary Engineers, the Intermediate examination or the Testamur examination of the Institution of Municipal Engineers, or equivalent.

The commencing salary for all these posts at age of 21 years is £283 per annum, rising to a maximum of £495 per annum. Entering salary is increased by £20 per annum for each year of age above 21 years, subject to a maximum commencing salary of £420 per annum. The posts are at Cambridge. Although these posts are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Apply to Ministry of Works (R.D.1 Estab.), Shaftesbury Road, Brooklands Avenue, Cambridge. 1663

### CITY OF BRADFORD.

#### CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

**APPOINTMENT OF TWO SENIOR TOWN PLANNING ASSISTANTS (ARCHITECTURAL), ONE GRADE A.P.T. VI, ONE GRADE A.P.T. V.**

Applications are invited for the positions of Senior Town Planning Assistants in the City Engineer and Surveyor's Department: one appointment in accordance with Grade A.P.T. V of the National Scale of Salaries, £520-£570 per annum, and one appointment in accordance with Grade A.P.T. VI, £595-£660 per annum.

Candidates should be Associates of the R.I.B.A. and hold a University Degree or Diploma in Architecture, or the final examination of a recognized school of Architecture, with experience in Town Planning. Candidates should state their experience in Civil Engineering and/or Surveying.

These appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination.

Canvassing will disqualify, and any applicant who is related to a member of, or a senior officer of, the Council, must disclose the fact in his application.

Applications stating age, present and previous appointments, with dates, qualifications and experience, accompanied by copies of three recent testimonials, should reach the undersigned not later than the 25th March, 1949.

W. H. LEATHAM.

Town Hall,

Bradford.

Town Clerk.

1978

### BOROUGH OF NUNEATON. ENGINEER AND SURVEYOR'S DEPARTMENT.

#### ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant on the staff of the Borough Surveyor, at a salary in accordance with Grade A.P.T. V of the National Scheme of Conditions of Service (£520-£570).

Candidates must be registered Architects, and preference will be given to those who have passed the intermediate examination of the R.I.B.A. or possess similar qualifications and have had experience in the design, construction and preparation of bills of quantities, specifications, etc., in connection with housing, schools, etc., and the general supervision of contracts.

Consideration will be given to the provision of housing accommodation.

Further particulars and conditions of appointment may be obtained from the undersigned, by whom all applications must be received not later than 28th March, 1949.

T. OLDROYD,

Town Clerk.

Council House,

Nuneaton.

1975

### PONTYPRIDD URBAN DISTRICT COUNCIL.

Applications are invited for the following PERMANENT APPOINTMENT, which is subject to the provisions of the Local Government Superannuation Act, 1937. Candidates must not be over 45 years of age and the successful candidate will be required to pass a Medical Examination.

**ARCHITECTURAL ASSISTANT.** Salary £660 per annum—the maximum of A.P.T. Grade VI of the National Scales of Salaries.

Minimum qualification required for this appointment is:—Associate of the Royal Institute of British Architects.

The person appointed will be required to devote the whole of his time to the service of the Council and the appointment will be subject to one month's notice on either side.

Forms of application are obtainable from Mr. W. Cecil Evans, Municipal Buildings, Pontypridd, Glam., and should be obtained by intending candidates.

Applications, in form required, together with the names and addresses of three persons to whom reference may be made, must be received by the undersigned not later than Friday, the First day of April, 1949.

Canvassing will be a disqualification and candidates must disclose any relationship to Members or Senior Officers of the Council.

H. LEONARD PORCHER.

Clerk of the Council.

Municipal Buildings,

Pontypridd.

4th March, 1949.

2009

### COUNTY BOROUGH OF CROYDON.

#### EDUCATION COMMITTEE.

#### SCHOOL ARCHITECT'S SECTION.

Applications are invited for the appointment of:—

ASSISTANT ARCHITECTS (two posts). Salary, A.P.T. V (£520 to £570 per annum).

Experience in school works an advantage.

London Weighting of £30 per annum (£20 per annum if under 26 years of age) is paid in addition to the salaries shown above.

The appointments are established, and superannuable, subject to medical examination.

Forms of application may be obtained from the Chief Education Officer, Katharine Street, Croydon (by sending a stamped, addressed foolscap envelope), and must be returned to him not later than 1st April, 1949.

Canvassing will disqualify.

E. TABERNER.

Town Clerk.

26th February, 1949.

2010

### LEEDS REGIONAL HOSPITAL BOARD.

Applications are invited for the following appointments in the Architect's Section on the Headquarters Staff:—

(a) ARCHITECTURAL ASSISTANT. Salary scale £480-£525.

(b) ARCHITECTURAL ASSISTANT. Salary scale £450-£495.

Candidates must have experience of preparing details, working drawings and surveying buildings, and preferably have some experience of hospital construction.

The above appointments are superannuable, and successful candidates will be required to pass a medical examination.

Applications, stating age, details of experience and qualifications, together with the names of three referees to be forwarded to the Secretary, 29/31, Eastgate, Leeds, 2, not later than Saturday, 26th March, 1949.

Canvassing in any form, either directly or indirectly, will disqualify.

1950

Applications are invited from qualified Architects or Chartered Surveyors (Building Section) for the post of MANAGER of the Mining Subsidence Claims Branch in the North Staffordshire Area with Headquarters at Stoke-on-Trent.

Experience in dealing with property which has suffered mining subsidence damage is essential.

Applicants should be between the ages of 35/45, and salary will be according to qualifications and experience. The post is pensionable.

Full details, in writing, stating salary required, in envelopes marked "Architect," to Chairman, West Midlands Division, National Coal Board, Himley Hall, Dudley, near Worcs. 2087



**BOROUGH OF CONGLETON.**

**ARCHITECTURAL ASSISTANT, GRADE II.**  
Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade II of the A.P.T. Division of the National Scales (£240-£266). The appointment will be subject to the National Scheme of Conditions of Service, to the Local Government Superannuation Act, 1937, and to passing a medical examination; and will be terminable by one month's notice on either side. The Housing Committee will consider providing HOUSING ACCOMMODATION for the successful applicant, if necessary. Applications endorsed "Architectural Assistant," stating age, whether married or single, qualifications, particulars of experience, and accompanied by copies of three recent testimonials, should be delivered to the Borough Surveyor, Mr. C. Brown, M.I.Mun.E., A.R.I.B.A., A.R.I.C.S., A.M.T.P.I., not later than first post on Monday, the 28th March, 1949.

JACK MEE,  
Town Clerk.

Town Hall, Congleton,  
Cheshire.  
2nd March, 1949. 1987

**EAST SUFFOLK COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following post in the County Architect's Department:—  
**ONE ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade IV, consolidated salary £480-£525.** The commencing salary in the grade will be fixed according to the qualifications and experience of the candidate.

Applicants should preferably have passed the Intermediate examination of the R.I.C.S. (Quantities Division), and have had some experience in a Quantity Surveyor's office. They should have some knowledge of all stages of the work for the preparation of Bills of Quantities, including estimating, site measurement and preparation of interim certificates and the preparation and settlement of final accounts.

The successful candidate will be required to work under the direction of the Senior Quantity Surveyor.

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

Applicants stating age, qualifications and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Architect, County Hall, Ipswich, not later than 25th March, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

G. C. LIGHTFOOT,  
Clerk of the Council.

County Hall,  
Ipswich. 2000

**BOROUGH OF WORTHING.  
APPOINTMENT OF SENIOR  
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of a Senior Architectural Assistant on the permanent establishment of the Borough Engineer and Surveyor's Department at a salary in accordance with Grade A.P.T. V, commencing salary £520, rising by three annual increments to £570 per annum.

Candidates should be Associates of the Royal Institute of British Architects and should have a sound experience in the preparation of drawings and specifications for all types of building work carried out by a Local Authority.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination.

The Council will assist the successful applicant to obtain housing accommodation, if necessary.

Applications endorsed "Senior Architectural Assistant, Grade V," stating age, qualifications, present and previous appointments, and experience, with dates, and accompanied by copies of three recent testimonials, should be addressed to the Borough Engineer and Surveyor, Town Hall, Worthing, and should be received by him not later than 12 noon on Monday, 29th March, 1949.

ERNEST G. TOWNSEND,  
Town Clerk.

Town Hall,  
Worthing.  
28th February, 1949. 1970

**BOROUGH OF BARNES.**

**APPOINTMENT OF CHIEF ARCHITECTURAL  
ASSISTANT, GRADE VI.**

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department at a commencing salary of £595, rising by annual increments to a maximum of £660 per annum, plus London Weighting.

Applicants must be Associates of the Royal Institute of British Architects and have had a good training and experience in the design and construction of housing and other municipal buildings. They should state whether housing accommodation would be required.

Applications, giving names of three persons to whom references can be made, should reach the undersigned not later than Thursday, March 31st, 1949.

W. R. SHEPHERD, A.M.I.C.E., A.M.T.P.I.,  
Borough Engineer and Surveyor.

Municipal Offices,  
Sheen Lane, S.W.14.  
7th March, 1949. 2058

**COUNTY BOROUGH OF SOUTH SHIELDS.**

**BOROUGH ENGINEER'S DEPARTMENT.**  
Applications are invited from persons with appropriate academic qualifications and experience for the position of:—

(a) CHIEF ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. VI (£595-£660).  
(b) SENIOR PLANNING ASSISTANT, Grade A.P.T. V (£520-£570).

(c) FIRST ASSISTANT ARCHITECT, Grade A.P.T. VI (£595-£660).  
(d) SECOND ASSISTANT ARCHITECT, Grade A.P.T. IV (£480-£525).

Applications for the above appointments must be made on forms obtainable from the Borough Engineer, Lt.-Col. John Reid, O.B.E., M.I.C.E., Town Hall, South Shields, and returned not later than Saturday, 9th April, 1949, appropriately endorsed.

Appointments will be subject to:—

1. Provisions of Local Government Superannuation Act, 1937.
2. National Conditions of Service.
3. Satisfactorily passing of medical examination.
4. Termination by one month's notice on either side.

Canvassing will be a disqualification and applicants must disclose any relationship to members or senior officers of the Council.

HAROLD AYREY,  
Town Clerk

Town Hall,  
South Shields.  
1st March, 1949. 2004

**URBAN DISTRICT OF EAST BARNET.  
ENGINEER & SURVEYOR'S DEPARTMENT.**

Applications are invited for the following Permanent Appointments:—

(a) ARCHITECTURAL ASSISTANT—A.P.T. Grade IV.  
Salary scale £480 to £525 per annum, plus the appropriate London Weighting.

(b) ARCHITECTURAL ASSISTANT, A.P.T. Grade III.  
Salary scale £450 to £495 per annum, plus the appropriate London Weighting.

(c) ENGINEERING ASSISTANT—A.P.T. Grade II.  
Salary scale £420 to £465 per annum, plus the appropriate London Weighting.

(London Weighting, under 21 years £10, 21-25 years £20, over 25 years £30 per annum).

Applicants should be qualified by examination, and preference will be given to those having previous experience with a Local Authority.

Each of the appointments will be subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937. Successful candidates will be required to pass a satisfactory medical examination.

Forms of application may be obtained from the undersigned and should be returned by not later than Saturday, 26th March, 1949.

C. M. BARNES, O.B.E., M.I.Mun.E., F.R.S.I.,  
Engineer and Surveyor.

Town Hall, Station Road,  
New Barnet, Hertfordshire. 1991

**LANCASHIRE COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.**

**APPOINTMENT OF PRINCIPAL ASSISTANT  
ARCHITECT.**

Applications are invited for the appointment on the permanent staff of Principal Assistant Architect, salary £960-£1,060.

Applicants must possess high ability in design and administration.

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

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, Esq., F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Monday, 4th April, 1949.

R. H. ADCOCK,  
Clerk of the County Council.

County Offices,  
Preston.  
1st March, 1949. 1992

**COUNTY BOROUGH OF DUDLEY.**

(Amended Advertisement).

**CHIEF ASSISTANT ARCHITECT.**

Applications are invited for the permanent appointment to the Borough Architect's Department, of a Chief Assistant Architect at a salary in accordance with Grade VII A.P.T. Division, i.e., £635-£710 per annum.

Applicants must be Associates of the R.I.B.A. and must have had considerable experience in the design and construction of modern buildings, particularly housing and educational work.

The successful applicant will be responsible directly to the Borough Architect and will be in complete charge of the Drawing Office.

Applications stating age, qualifications, present position, salary and experience, and the names of two persons to whom reference may be made, should be delivered to me not later than Monday, the 4th April, 1949.

The tenancy of a house would be made available if required.

P. D. WADSWORTH,  
Town Clerk.

The Council House,  
Dudley.  
28th February, 1949. 1971

**COUNTY BOROUGH OF SMETHWICK.**

**BOROUGH ENGINEER & SURVEYOR'S  
DEPARTMENT.**

Applications are invited for the following appointments:—

(a) CHIEF TOWN PLANNING ASSISTANT, salary Grade VII (£635-£710).

Preference will be given to candidates who are Corporate Members of the Town Planning Institute. Applicants must have had considerable experience in the preparation of Planning and Re-development Schemes and possess a thorough knowledge of the various Acts and Orders relating to Town and Country Planning.

(b) TOWN PLANNING ASSISTANT, salary Grade IV (£480-£525).

Applicants should have had planning experience and preference will be given to those who have passed the Intermediate examination of the Town Planning Institute or the equivalent.

(c) TOWN PLANNING ASSISTANT, salary Grade II (£420-£465).

Applicants should have had planning experience and be preparing to sit for an appropriate professional examination.

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

Applications should be made under the headings indicated as follows:—

1. Appointment desired.
2. Name and address.
3. Age and marital state.
4. Education.
5. Qualifications.
6. Present position and date of appointment.
7. Details of experience.
8. Any further information in support of application.
9. Notice required to terminate present appointment.

Applications, accompanied by copies of two recent testimonials (or stating the names of two persons to whom reference can be made) should be delivered, suitably endorsed, to Mr. Roland Fletcher, M.Inst.C.E., Borough Engineer & Surveyor, Council House, Smethwick, not later than 28th March, 1949.

E. L. TWYROSS,  
Town Clerk.

Council House,  
Smethwick.  
2nd March, 1949. 1985

**CITY OF PLYMOUTH.**

**CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointment on the established staff, which is subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

**PRINCIPAL ASSISTANT ARCHITECT** (General Section), A.P.T. Grade VIII, consolidated salary £685-£760 per annum.

This Department is normally responsible for the whole of the Corporation's Architectural work, including housing, education and general municipal buildings, and offers considerable scope to candidates with initiative and ability.

Candidates must be Registered Architects and have passed the final examination of the R.I.B.A. or hold equivalent qualifications. The successful applicant will be required to take charge of a section of the Department, and should have first-class ability in design.

Applicants must not be over 40 years of age, but this condition may be relaxed in the case of a person up to the age of 45 years, employed by another Local Authority.

Applications, on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, must be returned not later than Monday, 28th March, 1949.

HOUSING ACCOMMODATION may be provided, if required, by successful married applicant.

E. G. CATCHPOLE, A.R.I.B.A.,  
City Architect.

City Architect's Department,  
Seymour Road, Plymouth. 1962

**NEW TOWNS ACT, 1946.**

**BASILDON DEVELOPMENT CORPORATION**

invites applications for the post of CHIEF ARCHITECT of the Corporation. The officer appointed will be under the direction of the General Manager and will be generally responsible as head of his department for the architectural work undertaken by the Corporation and for controlling any such work undertaken by other agencies in the development of the new town. Applicants must be Fellows or Associates of the Royal Institute of British Architects and should have had experience in large scale development. The possession of a diploma in Town Planning is desirable. The post carries a salary in the range of £1,500 to £2,000 per annum subject to an initial maximum of £1,750 per annum.

Applications in writing should state date of birth, particulars of education, qualifications, particulars of posts held, present salary and the names of two persons who can speak from recent personal knowledge of the applicant and to whom the Corporation can refer if it so desires.

Applications, which will be treated as confidential, should be sent to the Secretary, Basildon Development Corporation, 13, Grosvenor Square, London, W.1, before 7th April, 1949. 2044



**BOROUGH OF ASHTON-UNDER-LYNE.**  
**BOROUGH SURVEYOR'S DEPARTMENT.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the above-mentioned appointment from candidates who have had architectural experience (particularly in relation to housing schemes) with a local authority. Preference will be given to applicants who have passed any architectural examinations.

The salary for the appointment will be in accordance with Administrative, Professional and Technical Division Grade III of the National Scale of Salaries (commencing at £450 per annum and rising by annual increments of £15, to a maximum of £495 per annum).

The successful applicant will be required to pass satisfactorily a medical examination and to contribute to the Corporation's Superannuation Fund.

Applications stating age and giving details of qualifications, present appointment, previous appointments and experience, together with the names and addresses of two persons to whom reference can be made, should be forwarded to the undersigned in sealed envelopes endorsed "Architectural Assistant," so as to be delivered not later than Monday, the 28th March, 1949.

Applicants should state in their applications whether or not they are, to their knowledge, related to any member of, or the holder of, any senior office under the Council.

Canvassing, either directly or indirectly, will be a disqualification.

The Corporation is endeavouring to provide housing accommodation for officers requiring such accommodation.

G. A. MALONE,  
 Town Clerk.

Town Hall,  
 Ashton-under-Lynde,  
 10th March, 1949. 2036

**COUNTY BOROUGH OF BURTON-UPON-TRENT.**

**APPOINTMENT OF PLANNING ASSISTANT.**  
 Applications are invited for the above-mentioned appointment in the Town Planning Section of the Borough Surveyor's Department at a commencing salary of £595 per annum in accordance with Grade VI A.P.T. Division of the National Scheme of Conditions of Service relating to Local Government Officers.

Applicants must have had previous experience in planning, particularly with regard to built-up areas, and be acquainted with modern legislation and technique and should possess a recognised Town Planning qualification.

Experience in engineering, surveying and administration of building byelaws will be considered an advantage.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to determination by one month's written notice on either side. The successful candidate will be required to pass a medical examination by the Medical Officer of Health.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Burton-upon-Trent, not later than 10 a.m. on Saturday, the 2nd April, 1949.

Canvassing, directly or indirectly, will be deemed a disqualification.

H. BAILEY CHAPMAN,  
 Town Clerk.

Town Hall,  
 Burton-upon-Trent,  
 9th March, 1949. 2035

**WESTMORLAND COUNTY COUNCIL.**  
**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, Grade I. Salary £390-£435.

Applicants should be good draughtsmen and have had previous architectural experience.

The appointment will be subject to the terms and conditions of service of the National Joint Council and to the Local Government Superannuation Act, 1937. The successful candidate must pass a medical examination. The post will be subject to one month's notice on either side expiring at the end of a calendar month.

Applications, giving full particulars, including age, education and experience, present salary and appointment, and accompanied by a copy of one recent testimonial, and the name of one other person to whom reference can be made, should be sent to R. H. Crompton, A.R.I.B.A., A.M.T.P.I., County Architect, County Hall, Kendal, to reach him not later than 25th March, 1949.

H. B. GREENWOOD,  
 Clerk of the County Council.

County Hall,  
 Kendal,  
 4th March, 1949. 2030

**THE UNIVERSITY OF SHEFFIELD.**

Applications are invited for a post of SENIOR LECTURER IN ARCHITECTURE to begin duties as soon as possible. Salary £750, rising by £50 every two years to £1,000. The commencing salary will be according to qualifications and experience, with Superannuation provision under the Federated Superannuation Scheme for Universities, and family allowance.

Applications (four copies) should reach the undersigned (from whom further particulars may be obtained) not later than 23rd April, 1949.

A. W. CHAPMAN,  
 Registrar.

**COUNTY BOROUGH OF SOUTHAMPTON.**  
**BOROUGH ARCHITECT'S DEPARTMENT.**  
 Applications are invited for the following positions:—

**ARCHITECTS.**

(a) SENIOR ASSISTANT ARCHITECT, Grade VI (£595-£660), Permanent.

(b) ASSISTANT ARCHITECTS, Grade V (£520-£570), Permanent.

(c) ARCHITECTURAL ASSISTANTS, Grade I (£395-£435), Permanent.

(d) JUNIOR ARCHITECTURAL ASSISTANT (with tracing experience), General Division (£135-£385), Temporary.

**QUANTITY SURVEYORS.**

(e) SENIOR QUANTITY SURVEYOR, Grade VII (£635-£710), Permanent.

(f) ASSISTANT QUANTITY SURVEYOR, Grade V (£520-£570), Permanent.

(g) QUANTITY SURVEYING ASSISTANTS, Grade I (£395-£435), Temporary.

**PLANNING OFFICERS.**

(h) ASSISTANT PLANNING OFFICER, Grade VI (£595-£660), Permanent.

(i) ASSISTANT PLANNING OFFICERS, Grade V (£520-£570), Permanent.

**BUILDING INSPECTORS.**

(j) ASSISTANT DISTRICT BUILDING INSPECTOR, Grade I (£395-£435), Permanent.

Application forms and particulars of appointments obtainable from L. Berger, Dip.Arch., A.R.I.B.A., Borough Architect, Civic Centre, Southampton, returnable by 26th March, 1949. 2013

**BOROUGH OF MACCLESFIELD.**  
**APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.**

Applications are invited for the appointment of a Senior Assistant Architect at a salary in accordance with Grade A.P.T. VI of the National Scales, commencing at £595 per annum, rising to £660 per annum. Housing accommodation will be made available, if required.

Candidates should be Associates of the R.I.B.A., and must have had a thorough training and experience in Architectural work. Preference will be given to applicants who have had experience in Municipal Housing.

The post will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Conditions of Service, and the successful candidate will be required to pass a medical examination.

Applications, stating age, experience and qualifications, and accompanied by a copy of a recent testimonial, and giving the names, etc., of two referees, should reach the undersigned not later than Thursday, 31st March, 1949.

WALTER ISAAC,  
 Town Clerk.

Town Hall,  
 Macclesfield,  
 8th March, 1949. 2077

**BOROUGH OF BRENTFORD AND CHISWICK.**  
**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the above-mentioned appointment on the temporary staff, at a consolidated salary according to the APT Division, Grade VI of the National Scheme (£595 to £650), commencing 1st year, plus revised London Weighing according to age.

Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects (or who hold a similar qualification), but consideration will also be given to applications from persons, intending shortly to take the Associate Examination.

Applicants should have had experience in general architectural work, school and house planning and design, including the preparation of working drawings, specifications and setting out.

Applications for the above-mentioned appointment must be made on the prescribed form (which contains the particulars and conditions of appointment), obtainable from the undersigned, by whom applications must be received not later than 28th March, 1949.

The Control of Engagement Order, 1947, does not apply.

W. F. J. CHURCH,  
 Town Clerk.

Town Hall,  
 Chiswick, W.4,  
 March, 1949. 2051

**COUNTY OF LINCOLN—PARTS OF LINDSEY.**  
**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following vacancies:—

THREE ASSISTANT ARCHITECTS, Grade VI, £595 to £660.

Applicants need not have had previous Local Government experience.

Applicants should be Associates of the Royal Institute of British Architects, and the appointments are on the permanent staff of the County Council and subject to the Provisions of the Local Government Superannuation Act, for which the successful candidate will be required to pass a medical examination.

Applications stating age, qualifications, experience, present salary, and whether to their knowledge they are related to Members or Senior Officers of the County Council, and accompanied by copies of two recent testimonials, should be sent to the undersigned not later than Friday, March 25th, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I.,  
 County Architect.

County Offices,  
 Lincoln. 2041

**COUNTY OF LINCOLN—PARTS OF LINDSEY.**  
**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following vacancies:—

(a) SENIOR QUANTITY SURVEYOR, Grade VII, £635 to £710.

(b) SENIOR QUANTITY SURVEYOR, Grade VI, £595 to £660.

Applicants need not have had previous Local Government experience. Preference will be given to applicants who are Associates of the Royal Institute of Chartered Surveyors. The appointments are on the permanent staff of the County Council and subject to the Provisions of the Local Government Superannuation Act, for which the successful candidate will be required to pass a medical examination.

Applications, clearly stating which post is applied for, and stating age, qualifications, experience, present salary, and whether to their knowledge they are related to Members or Senior Officers of the County Council, accompanied by copies of two recent testimonials, should be sent to the undersigned not later than Friday, March 25th, 1949.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I.,  
 County Architect.

County Offices,  
 Lincoln. 2042

**COUNTY OF LINCOLN—PARTS OF LINDSEY.**  
**COUNTY PLANNING DEPARTMENT.**

Applications are invited for the appointment of a SENIOR PLANNING ASSISTANT, Grade A.P.T. VI, £595-£660 per annum, on the headquarters staff in Lincoln.

Preference will be given to candidates who are corporate members of the Town Planning Institute with additional qualifications or experience in architectural work. Experience in the preparation of outline development plans and reports for urban and rural areas is desirable, and an ability to detail the layout of residential neighbourhoods.

The appointment is subject to the Local Government Superannuation Act, 1937, to the passing of a medical examination, and to the National Scheme of Conditions of Service as adopted by the County Council. The person appointed will be required to maintain a car for which the appropriate travelling allowance will be paid.

Applications stating age, qualifications and previous experience, together with one testimonial and the names and addresses of two referees, must be forwarded to the County Planning Officer, The Castle, Lincoln, not later than 31st March, 1949.

H. COPLAND,  
 Clerk of the County Council.

County Offices,  
 Newland, Lincoln. 2014

**BOROUGH OF DOVER.**  
**BOROUGH ENGINEER'S DEPARTMENT.**  
**SENIOR ASSISTANT ARCHITECT.**

Applications are invited for the above appointment. Salary Grade V of the National Scales (£520-£570 per annum).

Applicants should hold recognised architectural qualifications, and be experienced in housing, municipal building design and general building construction.

Applications stating age, qualifications, experience, present and previous appointments, accompanied by three recent testimonials, should reach the Borough Engineer, Maison Dieu House, Dover, not later than Monday, 4th April, 1949.

The Corporation is prepared to make a grant not exceeding 50 per cent of approved expenditure in connection with household removal expenses.

JAMES A. JOHNSON,  
 Town Clerk.

New Bridge House,  
 Dover,  
 5th March, 1949. 2065

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

**APPOINTMENT OF ARCHITECTURAL ASSISTANT (TEMPORARY).**

Applications are invited for the above appointment in the Borough Engineer and Surveyor's Department. The salary will be within Grade V, according to qualifications, of the A.P.T. Division of the National Joint Council's Scale, viz., £520-£570 per annum.

Applicants should hold suitable qualifications, and have had previous architectural experience. The work involves the preparation of post-war municipal housing schemes, including the laying out of estates, the design of houses, and the preparation of drawings, specifications and bills of quantities in connection therewith.

The appointment is a temporary one, terminable by one month's notice from either side, but employment is to be for a period not exceeding 5 years, subject to satisfactory service.

Applications, stating age, qualifications, and experience, etc., and accompanied by copies of two recent testimonials, to be sent to the undersigned not later than Saturday, 2nd April, 1949, in envelopes endorsed "Architectural Assistant."

Canvassing, either directly or indirectly, will be deemed a disqualification, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

F. H. ASHTON,  
 Town Clerk.

Town Clerk's Office,  
 Town Hall, Prestwich,  
 4th March, 1949. 2029

**COUNTY BOROUGH OF WALSALL.  
PUBLIC WORKS DEPARTMENT.  
CHIEF ARCHITECT.**

Applications are invited for the appointment of Chief Architect, in the Public Works Department, at a salary of £850 per annum, rising by annual increments of £50 to a maximum of £950 per annum.

Preference will be given to candidates who are Corporate Members of the Royal Institution of British Architects, and extensive professional and administrative experience is essential.

Applications, giving age, details of qualifications and experience, with special reference to the degree of responsibility for the work described, should be submitted along with the name of three persons to whom reference may be made, so as to be received by the undersigned not later than Monday, 4th April, 1949.

A flat will be made available for the successful applicant if required.

M. E. HABERSHON,

Borough Engineer and Surveyor.  
Council House, Walsall.  
11th March, 1949. 2097

**WORCESTERSHIRE COUNTY COUNCIL.  
COUNTY PLANNING DEPARTMENT.**

Applications are invited for the following appointments:—

**A SENIOR PLANNING ASSISTANT, A.P.T. GRADE VI.**

The person appointed will be engaged on the preparation of development plans and must also be competent to advise on the control of development. Applicants must be Corporate Members of the Town Planning Institute, and have had previous experience with a planning authority.

**A PLANNING ASSISTANT, A.P.T. GRADE IV.**

The person appointed will be required to assist a Senior Planning Assistant in the duties enumerated above. Applicants should have had previous experience in the work of a planning authority, and professional qualifications by examination will be considered an advantage.

Each appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T. Grade VI is £595 to £660, and in Grade IV, £480 to £525. Applications must be made on forms to be obtained from the County Planning Officer, County Buildings, Worcester, and returned to him not later than 5th April, 1949.

W. R. SCURFIELD,

Clerk of the County Council.  
Shirehall,  
Worcester.  
(X.289) 2028

**SOMERSET COUNTY COUNCIL.  
COUNTY PLANNING DEPARTMENT.**

Applications are invited for the following permanent appointments as PLANNING ASSISTANTS:—

(a) One in A.P.T. Grade Va (£550-£630 p.a.).

(b) Two in A.P.T. Grade V (£520-£570 p.a.).

(c) Two in A.P.T. Grade IV (£480-£525 p.a.).

Candidates for (a) must be good draughtsmen and have had experience in architecture and planning, and should be either A.R.I.B.A. or A.M.T.P.I.; (b) must have had good general experience either in town and country planning and should possess a recognised professional qualification; (c) must have had experience either in development control or in the preparation of planning maps, and preference will be given to candidates possessing a recognised professional qualification.

All the appointments are subject to the provisions of the Local Government Superannuation Act, 1937. Forms of application obtainable from the undersigned, must be completed and returned not later than 31st March, 1949.

R. W. DALE,

County Planning Officer.  
41, Upper High Street,  
Taunton. 2021

**WILLENHALL URBAN DISTRICT COUNCIL.  
APPOINTMENT OF HOUSING ARCHITECT.**

The Council invite applications for the appointment of Housing Architect at a salary in accordance with Grade A.P.T. VII of the National Salary Scales (£635-£725-£710).

Candidates must be at least Associates of the Royal Institute of British Architects and have had wide experience in architectural design and construction, particularly in relation to the building of houses.

The successful candidate will be responsible directly to the Council, and the appointment will be subject to the Local Government Superannuation Act, 1937, the National Scheme of Conditions of Service, and to termination by one month's notice on either side.

Applications stating age, qualifications, present and previous appointments, particulars of experience, the names of three persons to whom reference can be made, and whether the candidate is to his knowledge related to any Member or Senior Officer of the Council, must reach me not later than Thursday, 31st March, 1949.

Canvassing will disqualify.

JOHN R. RIDING,

Clerk of the Council.  
1977

**ESSEX COUNTY COUNCIL.**

**COUNTY PLANNING DEPARTMENT.**

The Essex County Council invite applications for the following appointments on the established staff of the County Planning Department:—

(a) TWO PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£650 per annum), at Leytonstone and Chelmsford.

(b) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade V, A.P.T.D. (£570 per annum), at Leytonstone, Romford and Chelmsford.

(c) PLANNING ASSISTANT, at a salary not exceeding the maximum for Grade IV, A.P.T.D. (£525 per annum), at Braintree.

(d) FIVE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£495 per annum), at Broomfield, Romford and Chelmsford.

(e) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade II, A.P.T.D. (£465 per annum), at Romford, Braintree and Colchester.

The salary in each case will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post concerned as stated above.

Candidates for post (a) must be Corporate Members of the Town Planning Institute, and preference will be given to those who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for post (b) must have passed the Intermediate examination of the Town Planning Institute, or an equivalent examination. Preference will be given to applicants who are Corporate Members of the Town Planning Institute or who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for posts (c) and (d) should have had good general experience in a planning office with regard to development control and basic survey. Preference will be given to candidates who have passed the Intermediate examination of the Town Planning Institute or some other recognized professional institution.

Candidates for post (e) should have had good general experience in a planning office with regard to development control and basic survey or should have passed the Intermediate examination of the Town Planning Institute or some other recognized professional institution.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination to the satisfaction of the Council.

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services as from time to time amended, and as adopted by the County Council, is at present applicable to persons appointed on the established staff.

Canvassing, directly or indirectly, will disqualify.

Applications must be made on a form to be obtained from the County Planning Adviser, Broomfield Place, Chelmsford, to whom they should be returned as soon as possible.

JOHN E. LIGHTBURN,

Clerk to the County Council.  
2093

**BOROUGH OF CAERNARVON.**

**ARCHITECTURAL ASSISTANT.**

Applications are invited for the post of TEMPORARY ARCHITECTURAL ASSISTANT, for a minimum period of two years, at a salary in accordance with Grade A.P.T. II, of the National Scheme of Conditions of Service (£520 per annum, rising by annual increments of £15 to £465).

Candidates should have had a thorough training and be capable of preparing sketch plans, work drawings, and details in connection with housing. Preference will be given to candidates who have passed parts of recognized Architectural examinations.

The Council will be prepared to assist in obtaining housing accommodation.

Applications, stating age, qualifications and experience, together with three recent testimonials, should reach the undersigned not later than 15th April, 1949.

W. P. DAVIES,

Town Clerk.  
Briggs Chambers, Caernarvon.  
10th March, 1949. 2099

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

Applications are invited for the post of DIVISIONAL ARCHITECT of the East Midlands Division. Applicants should be fully qualified, preferably Fellows or Associates of the Royal Institute of British Architects, and should have had considerable experience of architectural designs and construction. The work will chiefly involve pithead baths and colliery surface reconstruction. The post is important and responsible, and salary will depend upon qualifications and experience.

Applications, giving date of birth, education, qualifications and experience, together with copies of testimonials and names and addresses of referees, should be sent to the Secretary, East Midlands Divisional Coal Board, Sherwood Lodge, Arnold, Nottingham, and marked "Divisional Architect." Closing date, 2nd April, 2103

**LONDON COUNTY COUNCIL.**

**PLANNING STAFF.**

Vacancies in the following grades (some permanent):—

PLANNING OFFICER, Grade I, £240 to £260 a year.

PLANNING OFFICER, Grade II, £200 to £240 a year.

PLANNING OFFICER, Grade III, £250 to £270 a year.

TECHNICAL ASSISTANT (a), £240 to £260 a year.

TECHNICAL ASSISTANT (b), 55s. to 167s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged as either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

Full particulars and forms of application obtainable from the Architect to the Council (A.R./P.F.), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). Canvassing disqualifies. (193) 209

**NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.**

Applications are invited for the undermentioned appointments in the Architect's Section of the Board's Headquarters Staff.

**SENIOR LAND AND BUILDINGS SURVEYOR.**

Salary Scale, Grade A.P.T., VII, £635 to £660. Candidates should be experienced in preparing architectural measured drawings of existing buildings, surveying and levelling sites, the acquisition of sites, and should possess some experience of the law relating to land and property. Preference will be given to persons who are members of the R.I.C.S. (Building Section) or who have similar qualifications.

**JUNIOR LAND AND BUILDINGS SURVEYOR.**

Salary Scale, Grade A.P.T., IV, £480 to £500. Candidates should be experienced in surveying sites and buildings, and be capable of assisting the Senior Land Surveyor. Preference will be given to persons possessing suitable recognized qualifications.

The successful applicants will form a team of which the initial major responsibility will be the making of a survey of all hospital sites and buildings in the Region and the preparation of folios of up-to-date record plans.

The appointments are subject to the National Health Service Superannuation Regulations, 1947, and the successful candidates will be required to pass a medical examination.

Applications stating age, qualifications, past and present appointments, war service, present salary, and details of experience, together with the names of three referees, should be forwarded to the Secretary, "Dunira," Osborne Road, Newcastle-upon-Tyne, 2, not later than Thursday, 14th April, 1949.

Canvassing in any form will be a disqualification. 2083

**CITY OF LEICESTER EDUCATION COMMITTEE.**

**COLLEGE OF ART.**

(Principal: Kenneth Holmes, A.R.C.A.)

Applications are invited for the following appointment:—

**SCHOOLS OF ARCHITECTURE, INDUSTRIAL DESIGN AND PAINTING—POST OF SPECIAL RESPONSIBILITY IN INTERIOR DECORATION.**

The person appointed will be expected to co-ordinate the subject in its widest sense with the students of Architecture, Advanced Painting, Design and Decoration, and should have had practical experience of working with architects and designers. Candidates will be expected to continue their own professional practice. Initial salary scale, with allowances, will be based on experience and ability.

Applications, with copies of recent testimonials, should be forwarded to the Registrar of the College not later than 31st March, 1949.

ELFED THOMAS,

Director of Education.  
Education Offices, Newark Street,  
Leicester. 2098

**LANCASHIRE COUNTY COUNCIL.**

**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments on the permanent staff:—

(a) SENIOR ASSISTANT LAND SURVEYORS AND VALUERS, GRADE VII. Salary £635 to £710. Candidates must have a wide experience in surveying, valuation and negotiating.

(b) ASSISTANT LAND SURVEYORS AND VALUERS, GRADE VI. Salary £595 to £660. Candidates must have a wide experience in surveying, valuation and negotiating.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 26th March, 1949.

R. H. ADCOCK,

Clerk of the County Council.  
County Offices,  
Preston. 2096



COUNTY BOROUGH OF STOCKPORT.  
EDUCATION COMMITTEE.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, A.P. and T. Grade III. Salary £450-£495.  
Application forms and conditions of appointment may be obtained from the undersigned not later than Saturday, 19th March, 1949.  
Canvassing in any form will be disqualifying.

E. GWYN THOMAS,

Director of Education.

Education Offices,  
Town Hall, Stockport. 2067COUNTY BOROUGH OF SUNDERLAND  
EDUCATION COMMITTEE.

FOUR SENIOR ARCHITECTURAL ASSISTANTS are required in the Education Architect's Department.

Candidates should have had considerable experience and be capable of handling work from the sketch plan stage to completion. Salary in accordance with Grade V of the National Scale of Salaries, viz., £520-£570 per annum.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to the selected candidates passing a medical examination as required by the Council.

Canvassing will be a disqualification.  
Application forms, to be returned within 14 days of the appearance of this advertisement, can be obtained from the undersigned, on receipt of a stamped addressed foolscap envelope.

W. THOMPSON,

Director of Education.

Education Offices, 15, John Street,  
Sunderland.  
17th March, 1949. 2019COUNTY BOROUGH OF HUDDERSFIELD.  
BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) THREE ASSISTANT ARCHITECTS, Grade VI (£595-£660).

(b) ONE ARCHITECTURAL ASSISTANT, Grade V (£520-£570).

(c) ONE ARCHITECTURAL ASSISTANT, Grade I (£390-£435).

(d) ONE ASSISTANT QUANTITY SURVEYOR, Grade V (£520-£570).

(e) ONE ASSISTANT QUANTITY SURVEYOR, Grade IV (£480-£525).

(f) ONE TOWN PLANNING ASSISTANT, Grade II (£420-£465).

For appointments (a) and (b) candidates should be suitably qualified and possess a sound experience in the design, construction and maintenance of all types of buildings carried out by a Local Authority, and be capable of carrying contracts through to completion; for appointment (c) candidates should have received a recognised architectural training and be neat and expeditious draughtsmen with a sound knowledge of construction; for appointments (d) and (e) candidates should have had considerable experience in the preparation of Bills of Quantities, Specifications, and Estimates, and the settlement of Final Accounts; for appointment (f) interim development experience in a Planning Office is necessary.  
Housing accommodation will be made available for certain of the appointments and candidates are requested to state in their application if they wish to be provided with such accommodation.

The appointments will be subject to one month's notice on either side, expiring at the end of a calendar month, to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, suitably endorsed, giving age, qualifications, past and present appointments, and full details of experience, together with the names of three referees, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 28th March, 1949.

Canvassing of members of the Council, either directly or indirectly, will be a disqualification.

HARRY BANN,

Town Clerk.

Town Hall,  
Huddersfield. 2015

## ST. PANCRAZ BOROUGH COUNCIL.

## APPOINTMENT OF TEMPORARY SENIOR ASSISTANT ARCHITECTS.

Applications are invited for the above temporary appointments in the Architect's Department. Salary scale £595-£660 per annum (plus London weighting according to age) in accordance with Grade VI of the National Scheme.

Candidates must be Corporate Members of the Royal Institute of British Architects and should have had wide experience in architectural work, more particularly in municipal housing schemes and the construction of flats.

The Council are unable to assist in the provision of housing accommodation. Canvassing will be disqualifying. Applicants must disclose in writing whether they are related to any member or senior officer of the Council.

Applications by letter, stating age, training, qualifications, experience, past and present engagements, together with copies of three recent testimonials, must be delivered to the undersigned not later than the 1st April, 1949.

R. C. B. AUSTIN,

Town Clerk.

St. Pancras Town Hall,  
Easton Road, London, N.W.1  
3rd March, 1949. 2018

## CITY OF MANCHESTER.

## CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

## PERMANENT STAFF.

## ARCHITECTS:

(a) SENIOR ASSISTANT ARCHITECT, I. Salary A.P.T., Grade VII, £635-£710.

(b) SENIOR ASSISTANT ARCHITECT, II. Salary A.P.T., Grade VI, £595-£660.

Candidates must have high ability in design and be capable of taking charge of large contracts and controlling a group of assistant architects.

(c) ASSISTANT ARCHITECT, I. Salary A.P.T., Grade V, £520-£570.

(d) ASSISTANT ARCHITECT, II. Salary A.P.T., Grade IV, £480-£525.

(e) ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade III, £450-£495.

Preference for all architectural appointments will be given to candidates who hold a Degree or Diploma in Architecture and/or are Associates R.I.B.A.

## ENGINEERS:

(f) ASSISTANT HEATING, VENTILATING AND MECHANICAL ENGINEER, II. Salary A.P.T., Grade IV, £480-£525.

(g) HEATING, VENTILATING AND MECHANICAL ENGINEERING ASSISTANT. Salary A.P.T., Grade III, £450-£495.

Candidates must be experienced in the design and detailing of all types of heating and hot water installations.

(h) ELECTRICAL ENGINEERING ASSISTANT. Salary A.P.T., Grade III, £450-£495.

Candidates must be capable of preparing schemes for electric lighting and power installations in all types of Municipal buildings.

(i) JUNIOR ELECTRICAL ENGINEERING ASSISTANT. Salary, General Division Grade, £135-£385, according to age.

Candidates must be training in the application of electricity to all types of public buildings and should have obtained the Ordinary National Certificate in Electrical Engineering.

(j) STRUCTURAL ENGINEERING ASSISTANT. Salary A.P.T., Grade III, £450-£495.

Candidates must be experienced in the design of structural steelwork and reinforced concrete.

QUANTITY SURVEYORS:

(k) DEPUTY CHIEF QUANTITY SURVEYOR. Salary A.P.T., Grade VIII, £685-£760.

(l) SENIOR ASSISTANT QUANTITY SURVEYOR. Salary A.P.T., Grade VII, £635-£710.

(m) SENIOR ASSISTANT QUANTITY SURVEYOR. Salary A.P.T., Grade VI, £595-£660.

Candidates must be fully qualified, with wide experience, preferably Associates R.I.C.S. (Quantities Division).

(n) JUNIOR QUANTITY SURVEYING ASSISTANT. Salary A.P.T., Grade I, £390-£435.

(o) BUILDERS' ESTIMATING SURVEYOR. Salary A.P.T., Grade IV, £480-£525.

Candidates must be thoroughly experienced in preparing estimates of cost of builders' work in maintenance, repairs, and small alterations and additions.

## TEMPORARY STAFF.

(a) CLERK OF WORKS. Salary A.P.T., Grade III, £450-£495.

Candidates must have had practical knowledge of all branches of the building trade, and be experienced in the supervision of the erection and maintenance of all classes of buildings, and be capable of setting out, measuring up, keeping records, and making reports.

The successful candidates for the permanent positions will be required to pass a medical examination before the appointments are confirmed, to contribute to the Corporation's Superannuation Fund, and to execute the Corporation's Deed of Service.

Applications on the official form obtainable at the City Architect's Office, must be returned, together with not more than three recent testimonials, to Leonard C. Howitt, B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., M.T.P.I., City Architect, Town Hall, Manchester, by Wednesday, 30th March, 1949, endorsed for the appropriate appointment.

Canvassing in any form, oral or written, direct or indirect, is prohibited, and will be regarded as a disqualification.

PHILIP B. DINGLE,

Town Clerk.

Town Hall, Manchester.  
March, 1949. 2090CITY OF LINCOLN.  
CITY HOUSING ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a JUNIOR ARCHITECTURAL ASSISTANT, Grade I (£390-£435) of the A.P.T. Division of the National Scale.

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

Applications, stating age and experience, with the names of two persons to whom reference may be made, should reach the City Housing Architect, Stamp End, Lincoln, not later than Monday, the 28th March, 1949.

Canvassing will be disqualifying.

J. H. SMITH,

Town Clerk.

Town Clerk's Office, Lincoln. 2091

## STATES OF GUERNSEY.

Applications are invited for the following appointments in the Public Works Department:—  
The appointments are pensionable, and the salaries are subject to a cost-of-living bonus of £50 per annum for a married man or £25 for a single man.

SENIOR ARCHITECTURAL ASSISTANT. Salary £555 per annum, rising by annual increments of £20 to £670 per annum, plus cost-of-living bonus.

GENERAL ARCHITECTURAL ASSISTANT. Salary £480 per annum, rising by annual increments of £15 to £525 per annum, plus cost-of-living bonus.

Applicants must be Registered Architects and preferably Corporate Members of the Royal Institute of British Architects, and must have a thorough knowledge of architectural works, with practical experience in the design and development of public buildings of all types and the preparation of working drawings and specifications.

## SURVEYING ASSISTANT.

Salary £480 per annum, rising by annual increments of £15 to £525 per annum, plus cost-of-living bonus.

Applicants should be Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, with a thorough experience in surveying and general experience of Municipal engineering or architecture.

Candidates must not be over 45 years of age, and the successful applicants will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applicants should indicate, in the following order:—

(a) The specific appointment applied for.

(b) Name and address.

(c) Age.

(d) Educational training.

(e) Professional qualifications.

(f) Present position, salary and date of appointment.

(g) Previous positions, with salaries and dates of appointments.

(h) Detailed particulars of experience.

(i) Any further remarks in support of application.

(j) Notice required to terminate present appointment.

Applications, endorsed "Technical Assistants," together with copies of two recent testimonials, should reach the undersigned not later than Tuesday, the 5th April, 1949.

Canvassing in any form will be disqualifying.

L. A. GUILLEMETTE,

States Supervisor.

States Office, Guernsey.

8th March, 1949. 2092

NORTHERN REGIONAL HOSPITAL BOARD,  
INVERNESS.

## ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

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

Applicants should be Associate Members of the R.I.B.A., and have a good general experience in design, construction, supervision and maintenance of building work.

(b) ASSISTANT ARCHITECT. Salary scale, A.P.T., V, £520-£570.

Applicants should have a good general architectural experience, and possess a good knowledge of building construction.

(c) QUANTITY SURVEYOR. Salary scale, A.P.T., VI, £595-£660.

Applicants should have experience in estimating, preparation of schedules of quantities in accordance with the Scottish Mode of Measurement and in the settlement of final accounts.

The appointments will be subject to the National Health Service (Scotland) (Superannuation) Regulations, 1948, and the successful candidates will be required to pass a medical examination.

The posts will be terminable by one month's notice on either side.

Schedules of application can be obtained from the undersigned and should be submitted to him, together with the names of three referees, not later than Tuesday, 5th April, 1949.

A. M. FRASER, M.D.,

Secretary and Administrative Medical Officer,  
Raigmore Hospital, Inverness. 2100

## BOROUGH OF DOVER.

## BOROUGH ENGINEER'S DEPARTMENT.

## QUANTITY SURVEYOR.

Applications are invited for the above appointment. Salary maximum of Grade VI of the National Scale (£660 per annum).

Applicants must have had considerable experience in quantity surveying and be Associate Members of the Royal Institute of Chartered Surveyors or hold an equivalent qualification.

Applications, stating age, qualifications, experience, present and previous appointments, accompanied by three recent testimonials, should reach the Borough Engineer, Maison Dieu House, Dover, not later than Monday, 4th April, 1949.

The Corporation is prepared to make a grant not exceeding 50 per cent. of approved expenditure in connection with household removal expenses.

JAMES A. JOHNSON,

Town Clerk.

New Bridge House,  
Dover.

5th March, 1949. 2064



**CITY OF SALFORD.**

Applications are invited for the appointment of ARCHITECTURAL ASSISTANTS in the Architect's Department; salary Grade VI, £595 to £660.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction and also be experienced in the management of building contracts.

The appointments will be subject to—  
(a) The Conditions of Service of the National Joint Council as adopted by the City Council;  
(b) The provisions of the Local Government Superannuation Act, 1937;  
(c) The passing successfully of a Medical Examination.

Applications stating age, qualifications and experience, together with particulars of past and present employment, accompanied by copies of two recent testimonials, should be forwarded in envelopes endorsed "Architectural Assistant," addressed to the City Engineer and Surveyor, Town Hall, Salford, 3, and be delivered not later than Wednesday, 30th March, 1949.

Applicants must disclose, in writing, whether or not they are related to any Member of the Council or an Officer of the Authority.

H. H. TOMSON,  
Town Clerk.  
1963

**EAST SUSSEX COUNTY COUNCIL.**

Applications are invited for appointment to the following posts in the County Planning Department—

(a) **TECHNICAL PLANNING ASSISTANTS** in the Area Offices at Bexhill, Crowborough, Haywards Heath and Lewes respectively. The salaries will be on one of the following grades of the National Charter—A.P.T. II (£420 to £465), A.P.T. III (£465 to £495), A.P.T. IV (£495 to £525). The capabilities and experience of the successful candidates will determine the grades in which they will be appointed.

Applicants must be capable draughtsmen and preference will be given to candidates who have been trained in the office of a Planning Officer, an Engineer, an Architect or a Surveyor, and who have passed the Intermediate or Final Examination of a suitable professional body.

Applicants should state for which area office they wish to be considered and the minimum salary they are prepared to accept.

(b) **ARCHITECTURAL PLANNING ASSISTANT** in the headquarters office at Lewes. The salary will be on Grade A.P.T. VI (£595 by two increments of £20 and one increment of £25 to £660), commencing at a point within that grade according to experience and qualifications. The person appointed will be engaged mainly on the preparation of layout and development plans and on architectural work in connection with development control. Previous experience in a planning office will not be regarded as essential, but applicants must be trained architects and preference will be given to Associates of the R.I.B.A.

The above appointments are terminable by one month's notice on either side; they are superannuable, and a candidate to be successful must pass a medical examination to the satisfaction of the County Medical Officer. Canvassing, either directly or indirectly, will disqualify, and a candidate who is related to a member of, or a senior officer under, the Council, must disclose the fact in his application.

In the case of all the posts, possession of a motor car is desirable, and travelling and subsistence allowances in accordance with the scales approved by the County Council from time to time will be payable in addition to the salary.

Applications on a form to be obtained from the County Planning Officer, County Hall, Lewes, must be sent to me at the County Hall, Lewes, by the 26th March, 1949.

H. S. MARTIN,  
Clerk of the County Council.  
2002

**NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.**

Applications are invited for the appointment of two ASSISTANT ARCHITECTS, A.P.T. Division Grade VI (£595—£660), on the permanent staff in the Architect's Department.

Candidates must be Associate Members of the Royal Institute of British Architects, and must have had experience in the Architect's Department of a local authority.

Appointments superannuable, subject to satisfactory medical examination, and terminable by two calendar months' notice in writing on either side.

Forms of application are not being issued, but further information may be obtained from Mr. J. Catchpole, A.R.I.B.A., County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than Thursday, the 31st March, 1949.

Canvassing, directly or indirectly, will disqualify, and candidates should state in writing whether they are related to any member of or senior officer under the Council.

HUBERT G. THORNLEY,  
Clerk of the County Council.  
County Hall,  
Northallerton.  
4th March, 1949.

2043

**CITY OF PLYMOUTH.**

**CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the appointment of a CHIEF QUANTITY SURVEYOR, A.P.T. Grade VIII (£685 to £760).

The appointment, which is on the permanent staff, is subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

Applicants should be Members of the Royal Institution of Chartered Surveyors (Quantities Section).

Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications, on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be received at my office not later than Thursday, 31st March, 1949.

HOUSING ACCOMMODATION will be made available to the successful married applicant if he requires it.

E. G. CATCHPOLE, A.R.I.B.A.,  
City Architect.

Seymour Road, Mannamoad,  
Plymouth. 2086

**CITY OF COVENTRY.**

Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Department—

(a) **ONE ASSISTANT ARCHITECT.** Salary on Grade A.P.T. VII, commencing at £635 per annum and rising to £710 per annum.

Housing accommodation may be made available for the successful applicant.

(b) **TWO ASSISTANT ARCHITECTS.** Salary on Grade A.P.T. V, commencing at £520 per annum and rising to £570 per annum.

Candidates for the (a) and (b) appointments should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications.

(c) **ONE ASSISTANT ARCHITECT.** Salary on Grade A.P.T. IV, commencing at £480 per annum and rising to £465 per annum.

(d) **ONE ASSISTANT ARCHITECT.** Salary on Grade A.P.T. II, commencing at £420 per annum and rising to £465 per annum.

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pension Fund.

Applications for the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Wednesday, the 30th March, 1949.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,  
City Architect.

1a, Warwick Row,  
Coventry.  
Date as issue. 2006

**COUNTY BOROUGH OF ROTHERHAM.**

**APPOINTMENT OF DEPUTY BOROUGH PLANNING OFFICER.**

Applications are invited for the above appointment at a commencing salary of £900 per annum, rising by annual increments of £50 to a maximum of £1,000 per annum, from Corporate Members of the Town Planning Institute with additional Engineering (preferably Municipal Engineering) or Architectural qualifications.

Applicants must have had considerable responsible experience covering the preparation of Development Plans and Control of Development, have a thorough knowledge of current relevant legislation, and be competent to undertake and be responsible for the administration and supervision of a Town Planning Department under the direction of the Borough Engineer and Surveyor.

The appointment will be subject to the conditions of service adopted by the Council and based on the National Scheme of Conditions of Service, and will be determinable by one month's notice on either side.

The post is superannuable and the candidate selected for the appointment will be required to pass a medical examination. Applicants must state whether they are related to any member or officer of the Rotherham County Borough Council, and deliberate omission to disclose such relationship will disqualify any candidate. Canvassing of Members of the Council, whether direct or indirect, will be a disqualification.

HOUSING ACCOMMODATION will be made available for the successful applicant if required.

Applications endorsed "Deputy Borough Planning Officer," stating age, qualifications and details of experience, accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than 2nd April, 1949.

JOHN S. WALL,  
Town Clerk.

Municipal Offices,  
Rotherham, Yorks.

2020

**NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.**

**ARCHITECT'S DEPARTMENT.**

Applications are invited for the position of SENIOR ASSISTANT ARCHITECT, Grade A.P.T. VIII, £685—£760 per annum, plus London Weighting.

Applicants should be members of the R.I.B.A., and have had good general experience in design, construction and supervision of hospital building work, including experience in the control of staff. A detailed knowledge of hospital alteration and adaptation work, together with the ability to prepare approximate estimates of costs, is essential.

The appointment is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947-48, and will be terminable by one month's notice. The successful applicant will be required to pass a medical examination.

Applications stating age, qualifications and experience, together with the names of two referees, should be addressed to the Secretary, North West Metropolitan Regional Hospital Board, 11a, Portland Place, W.1, not later than 26th March, 1949.

2012

**LONDON COUNTY COUNCIL.**

**ARCHITECT'S DEPARTMENT.**

**ARCHITECTURAL ASSISTANTS.**

Vacancies exist for technical assistants in the Architect's Department for the preparation of drawings and specifications in connection with the construction and adaptation of varied types of public buildings.

Commencing rate (up to £580 a year), according to qualifications and experience. The positions will be temporary in the first instance, but successful candidates will be subject to the Council's Superannuation and Provident Fund, and will be eligible for promotion on merit to the permanent staff and to higher positions on the occurrence of vacancies.

Full particulars and form of application from the Architect to the Council (quoting AR/P/A), The County Hall, Westminster Bridge, S.E.1. (enclose stamped addressed foolscap envelope). 2053

**STEVENAGE DEVELOPMENT CORPORATION.**

Applications are invited for the following posts in the Department of Architecture and Planning (Chief Architect and Planner, Clifford Holliday, M.Arch., F.R.I.B.A., M.T.P.I.)—

ASSISTANT QUANTITY SURVEYOR, Grade III. Salary range, £750/£1,000.

ASSISTANT QUANTITY SURVEYOR, Grade IV. Salary range, £550/£750.

The applicants for these posts must have had pre-war experience of large building contracts and be prepared to undertake the preparation of Bills for all types of work, the measurement of variations and the settlement of final accounts.

WORKER-UP, Grade V(b). Salary, £465/£525. Applicants must be able to "work up" Bills of Quantities and to teach junior staff.

Selected candidates 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 or 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, Herts, and should be returned not later than 9th April, 1949. 2079

**STANDISH-WITH-LANGTREE URBAN DISTRICT COUNCIL.**

**SURVEYOR'S DEPT.—ARCHITECTURAL ASSISTANT.**

Applications are invited for the position of Architectural Assistant in the office of the Surveyor & Water Engineer. The position is permanent, the salary will be in accordance with Grade II of the Administrative, Professional and Technical Division of the National Scale of Salaries, and subject to the National Scheme of Conditions of Service.

Applications, stating age, training, qualifications and experience, accompanied by two recent testimonials, must be delivered to the undersigned not later than 4th April, 1949.

The Council do not undertake to provide housing accommodation to the successful candidate, but are prepared to consider such provision should this be necessary.

DONALD CHISHOLM,  
Clerk of the Council.

Council Offices, Standish,  
Lancashire. 2076

**EDINBURGH CORPORATION.**

**TOWN PLANNING DEPARTMENT.**

Applications are invited for the following permanent appointments—

(1) **ONE SENIOR PLANNING ASSISTANT** (A.P.T. Grade VII, £635—£710).

(2) **TOWN PLANNING ASSISTANTS** (A.P.T. Grade V, £520—£570).

Applicants must be Associate Members of the R.I.B.A. and should have had good architectural experience.

In addition they should have had training in Town Planning and experience in a Planning Office.

Applications stating age, present and previous appointments and present salary, qualifications and experience, should be forwarded to reach the Town Planning Office, City Chambers, Edinburgh, not later than Monday, 28th March, 1949.

Successful applicants will require to pass a medical examination and will be subject to the Corporation's superannuation scheme. 2061

**STEVENAGE DEVELOPMENT CORPORATION.**

Applications are invited for the following posts in the Department of Architecture and Planning (Chief Architect and Planner, Clifford Holliday, M.Arch., F.R.I.B.A., M.T.P.I.):—

**ASSISTANT CHIEF ARCHITECT (Grade II).** Salary range £1,000-£1,200. Applicants, who must be fully qualified architects and have completed a degree or diploma course at a recognized school of architecture, should have had at least seven years' experience in the design and construction of civilian buildings, with particular experience of large housing schemes. Ability to organize and control the architectural work of the Department is essential.

**ASSISTANT CHIEF ARCHITECT-PLANNER (Grade II).** Salary range £1,000-£1,200. Applicants, who must be fully qualified architects and have completed a degree or diploma course at a recognized school of architecture, should be members of the Town Planning Institute, and have had wide experience of the preparation and administration of detailed town planning schemes and civic design. The successful applicant will be required to organize and control the planning work of the Department.

**ARCHITECT-PLANNER (Grade IV).** Salary range £550-£750. Fully qualified architect and town planner, to work as member of a planning team in the Department.

**TWO JUNIOR ARCHITECTS.** Grade V(b), £465-£525.

**ONE JUNIOR ARCHITECT.** Grade V(a), £400-£465.

**ONE JUNIOR PLANNER.** Grade V(a), £400-£465.

Candidates for V(b) posts should have either passed the R.I.B.A. final examination or have completed a degree or diploma course at a recognized school of architecture. Candidates for the planning post, Grade V(a), should have passed the Intermediate examination of the Town Planning Institute and have had some practical experience of Town Planning.

**ADMINISTRATIVE ASSISTANT (Male or Female).** Grade Va. Salary £400-£465. Duties will include acting as a general assistant in the administration of the Department, minutes of conferences, correspondence, returns and the supervision of clerical staff. Some experience in an architect's office and ability to take shorthand notes will be an advantage.

Selected candidates 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 or 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, Herts., and should be returned not later than 9th April, 1949.

**STEVENAGE DEVELOPMENT CORPORATION.** Applications are invited for the appointment of **CLERK OF WORKS** in the Department of Architecture and Planning (Chief Architect and Planner, Clifford Holliday, M.Arch., F.R.I.B.A., M.T.P.I.), at a fixed grade salary, maximum £600 per annum, according to experience.

Applicants must have a sound knowledge of building construction and of the building trade. The appointment will be terminable by one month's notice on either side.

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 or 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, Herts., and should be returned not later than 9th April, 1949.

**GLOUCESTERSHIRE COUNTY COUNCIL.**

**COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments:—

(a) **ASSISTANT ARCHITECTS.**

Candidates should be qualified members of the R.I.B.A., with good general experience in design and construction of public buildings, including schools.

A.P. and T., Grade V, and eligible for promotion to A.P. and T., Grade VI, according to experience.

(b) **ARCHITECTURAL ASSISTANTS.**

Candidates should have passed the Intermediate examination of the R.I.B.A., with general experience in design and construction.

A.P. and T., Grade IV.

Appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications, stating (1) name and address (2) married or single, (3) age, (4) qualifications, (5) present position, salary and date of appointment, (6) previous positions with dates and salaries, (7) particulars of experience, and accompanied by copies of three recent testimonials, should be sent to S. E. Urwin, F.R.I.B.A., County Architect, Shire Hall, Gloucester, not later than Monday, 28th March, 1949.

GUY H. DAVIS,

Clerk of the County Council.

7th March, 1949.

**CORNWALL COUNTY COUNCIL.**  
**APPOINTMENT OF ASSISTANT PLANNING OFFICER (ARCHITECT).**

Applications are invited for the post of Assistant Planning Officer (Architect), in the Headquarters Office of the County Planning Department, at a salary of £595, on Grade VI of the A.P.T. Division (£595×£20-£660). Candidates must be Associates of the Royal Institute of British Architects and Associate Members of the Town Planning Institute, and should have had a thorough training in domestic architecture. The successful candidate will be engaged on the preparation of Surveys and the Development Plan, and will be required to advise on the control of elevations and external appearance of buildings, landscaping, preservation of amenities, suitable housing designs and layouts. He will also be in charge, under the County Planning Officer, of the Drawing Office, and will be responsible for the preparation and presentation of all maps, diagrams, cartoons, etc.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Canvassing, either directly or indirectly, will disqualify, and every candidate must disclose in his application whether to his knowledge he is related to any member of the Council or to the holder of any senior office under the Council.

Applications, together with the names of three persons to whom reference may be made, should be addressed to the County Planning Officer, County Hall, Truro, not later than the 7th April, 1949.

E. T. VERGER,

Clerk of the County Council.

County Hall, Truro.

9th March, 1949.

**CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.**

**CITY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments:—

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

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

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

(d) **ONE SENIOR ASSISTANT QUANTITY SURVEYOR.** Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).

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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.

Applicants for appointments (d) and (e) must have had experience in the preparation of Bills of Materials, Specifications, Estimates, and the settlement of Final Accounts on all kinds of building contracts. Preference will be given to Professional Associates of the Royal Institute of Chartered Surveyors.

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 education and 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, 13, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON,

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.

9th March, 1949.

**Architectural Appointments Vacant**  
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**AN** expanding Middle East Oil Company urgently requires an **ASSISTANT ARCHITECT** in the London office for the execution of sketch and working drawings connected with any architectural items required; should be up to senior architectural standard; A.R.I.B.A. preferable; not less than 7 years in drawing offices engaged on housing schemes, public buildings, town planning, etc. knowledge of Middle East architectural practice, climatic difficulties, materials, is an advantage; some knowledge of reinforced concrete and specialised construction, including the "Bellrock" system, desirable; age 25-40; salary £600-£750 per annum, according to age and experience. Write, giving brief details for application form, and quoting L.O. 125, to Box "Z.T." c/o J. W. Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2.

**ARCHITECTURAL ASSISTANT (single)** required for country town office; office trained; good draughtsman; car owner/driver; experience in outside supervision and specifications; salary £500 per annum. Details to Box 1946.

**ARCHITECTURAL ASSISTANT** wanted, approaching R.I.B.A. Final Standard or post-final. Experience general practice. Progressive post for suitable person. Five-room flat with small garden available March. Full particulars to R. J. Page, A.R.I.B.A., 47, North Hill, Colchester. 1955

**OPENING** for **QUALIFIED ASSISTANT** to old-established London Architects. Good prospects. Please state experience, etc., fully, to Box 1885.

**ASSISTANT** for E. Midlands office. Good draughtsmanship and practical experience of domestic work, alterations, maintenance, and quantities desirable. Box 1945.

**ARCHITECTURAL ASSISTANT** required immediately for office West Riding of Yorkshire. Must be experienced in working drawings, details, levelling and have knowledge of quantities. Write, giving experience and salary required, to Box 1919.

**WANTED** immediately. **ARCHITECTURAL ASSISTANT**, preferably one accustomed to housing. Salary according to experience and capability. Apply to W. E. Norman Webster, F.R.I.B.A., 1a and 2a, Station Street, Spalding, Lincolnshire. 1957

**JUNIOR ARCHITECTURAL DRAUGHTSMAN** required for industrial concern in South-eastern England. Write to Box 1948, stating qualifications.

**ARCHITECT'S ASSISTANT** required at once, Inter R.I.B.A. Standard. Salary £375-£450, according to experience. Gotch, Saunders & Surridge, F.A.R.I.B.A., High Street, Kettering. Telephone: 3165. 1949

**ARCHITECT'S JUNIOR ASSISTANT** with several years' good general experience, required in private office in Wolverhampton. State age, experience and salary required. Box 1957

**SURVEYORS** require periodic assistance from qualified **FREE LANCE ARCHITECT**. Derek Rayner & Co., Tintex House, 245, Oxford Street, W.1. Regent 4796. 1957

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**SENIOR ASSISTANT** required. Write, giving full particulars regarding qualifications, experience and salary required, to Johns & Slater, Architects, 8, Lower Brook Street, Ipswich. 2054

**ARCHITECT'S ASSISTANT:** Intermediate standard, good draughtsman, with interest in contemporary architecture required. Write, giving details, to E. D. Mills, F.R.I.B.A., 38a, Soho Square, W.1. 2049

**EXPERIENCED** Senior and Junior **ARCHITECTURAL ASSISTANTS** required. Write, stating age, experience and salary required to: Farmer & Dark, F.R.I.B.A., Terminal House, Grosvenor Gardens, London, S.W.1. 2048

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**EXPERIENCED ARCHITECTURAL ASSISTANT** required, preferably with knowledge of commercial buildings. Salary £400/£500, according to ability. Box 2039.

**ARCHITECTURAL ASSISTANT** required immediately for S.E. Kent. Capable of preparing working drawings and specifications and supervising building work. Salary approximately £450, according to qualifications. Particulars to Box 2038.



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**ASSISTANT** required in Maidenhead Architect's office, principally for preparation of specifications, schedules, surveys and work in connection with management of contracts. Apply with particulars of experience and salary required to Box 2016.

**ARCHITECTURAL ASSISTANT** and/or Draughtsman required in Maidenhead office. Good prospects in busy practice for keen men. Details of experience and salary required to Box 2017.

**URGENTLY** required for Office in West Oxon and Cotswolds District. Capable ASSISTANT, approximately final standard, with good office experience. Also Junior Assistant. Apply stating salary required, F. Russell Cox, Esq., F.R.I.B.A., Red Lion House, Burford, Oxon. Tel No. Burford 2370. 2063

**ARCHITECTURAL ASSISTANTS** required in West Country office. Intermediate Standard. General practice, including farms, factories, domestic work, etc. Ability to drive car an advantage. Interesting work and progressive appointment. Full particulars of experience training, salary, etc., to Box 2066.

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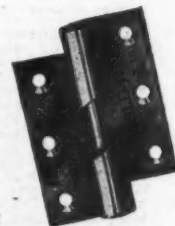
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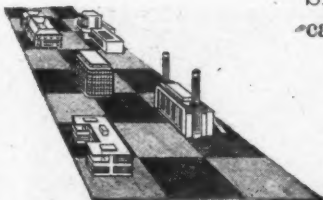
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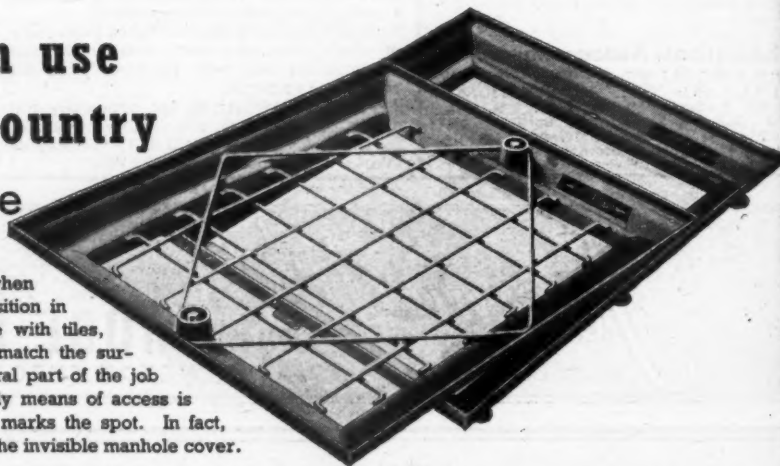
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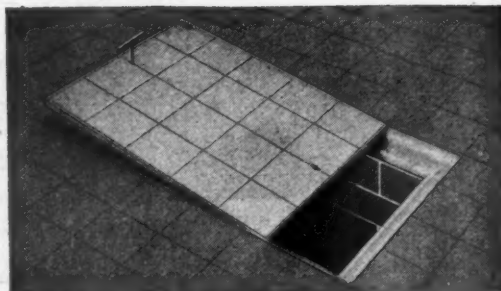


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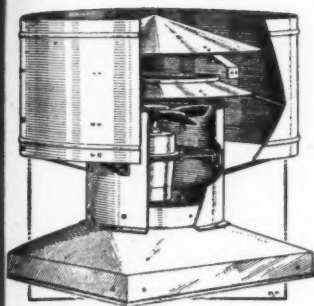
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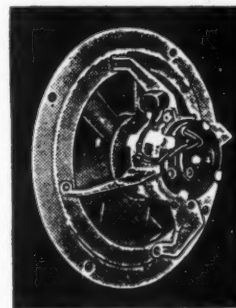
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