

# 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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No. 2717]

[Vol. 105

THE ARCHITECTURAL PRESS

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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 H 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. 9, Belgrave Square, S.W.1.	Sloane 0421
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. 24-26, Abercromby Square, Liverpool, 7.	Royal 6301
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
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 2128
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. 25, Victoria Street, S.W.1.	Abbey 5422-3
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	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
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 Arts and Design. C/o National Gallery, W.C.2.	Whitehall 2415
CIAM	Congres Internationaux d'Architectures Modernes. 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 7070
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
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
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	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1.	Canonbury 2041
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

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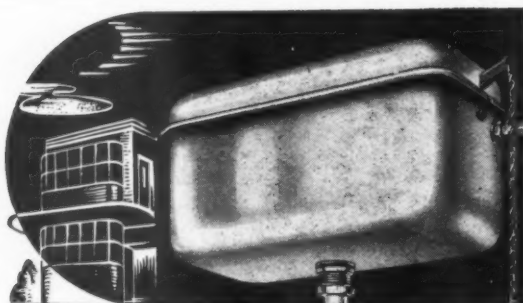
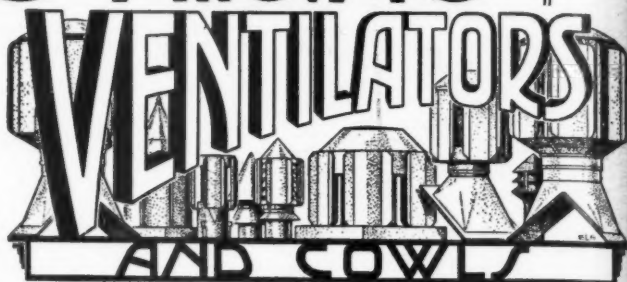
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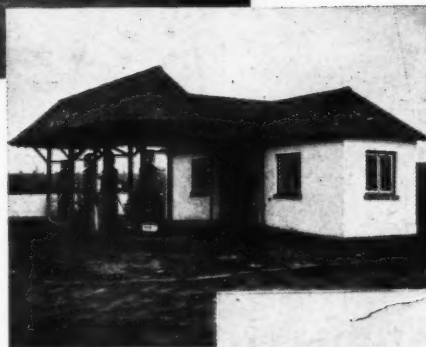
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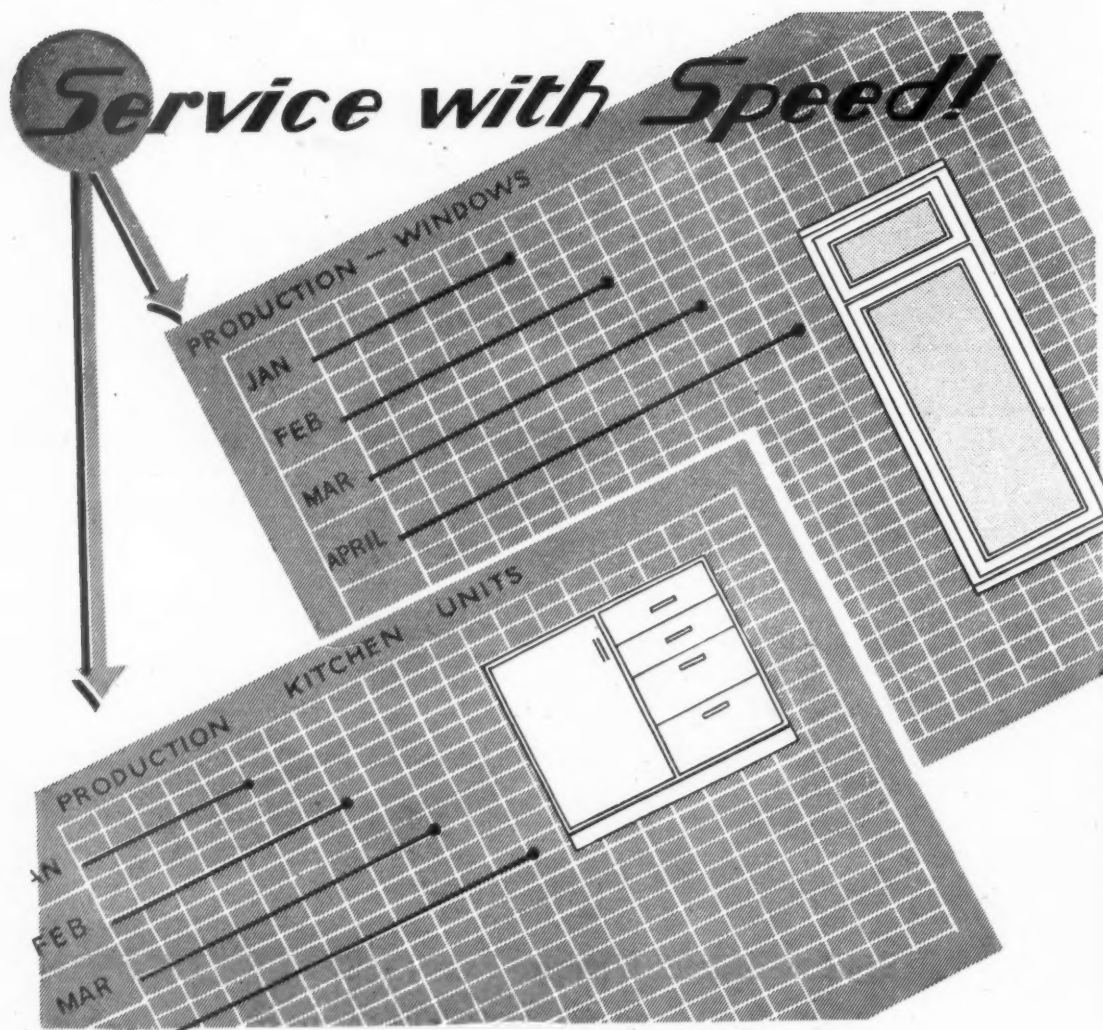
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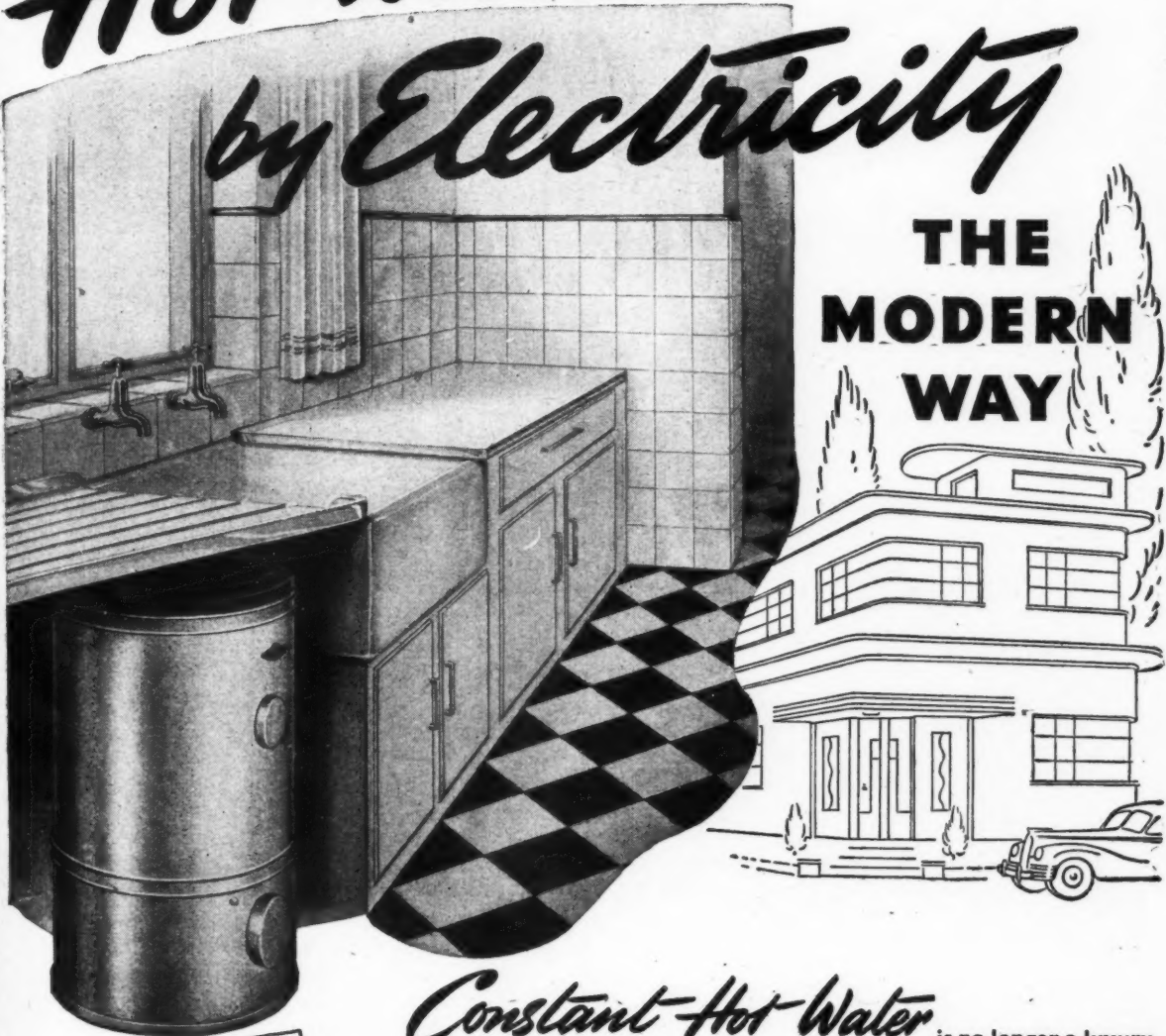
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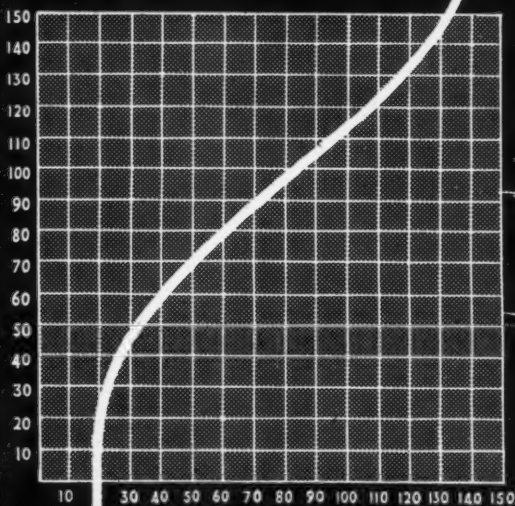
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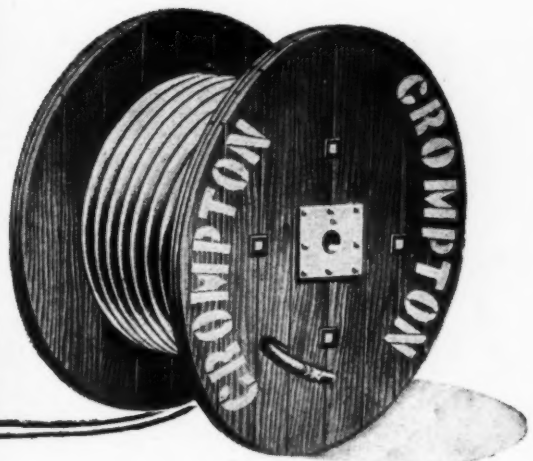
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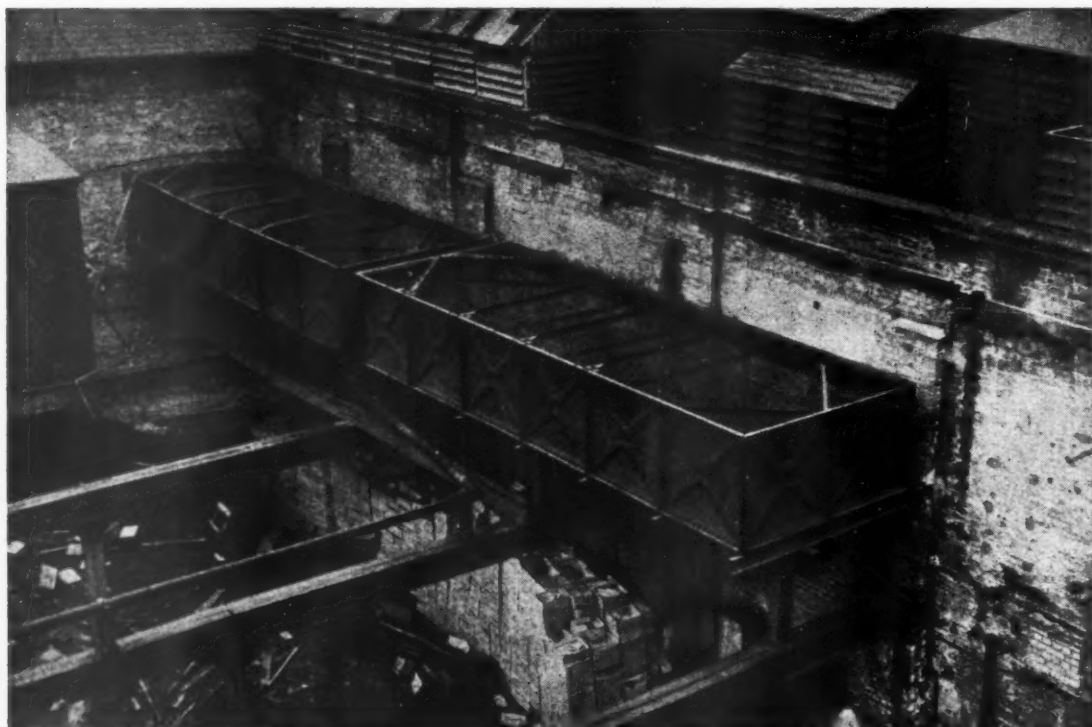


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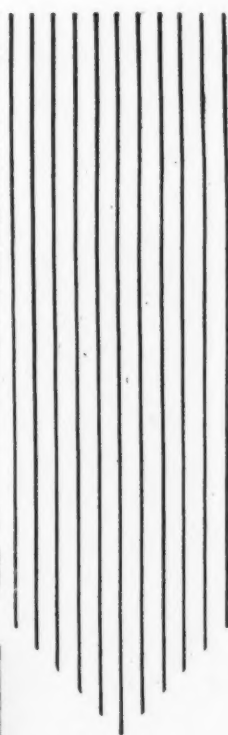
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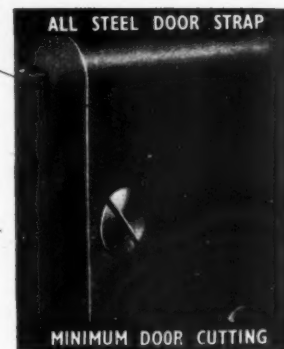
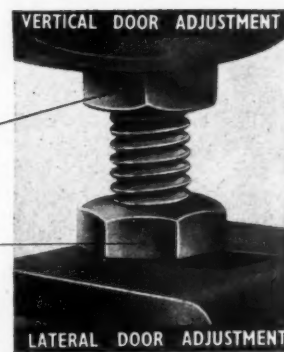
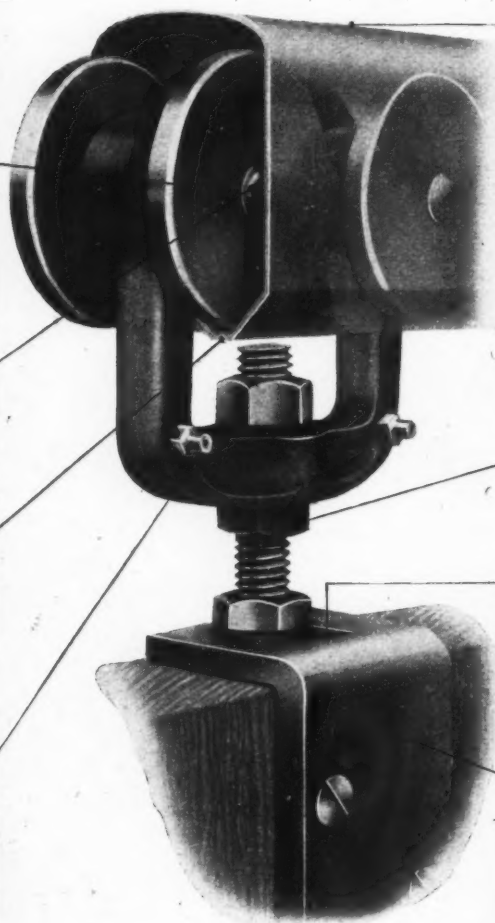
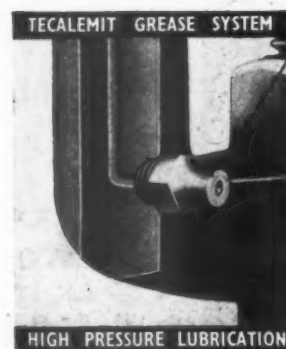
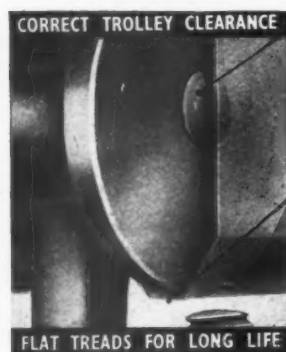
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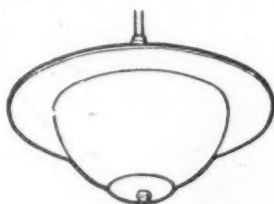
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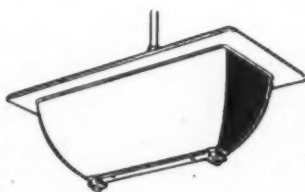
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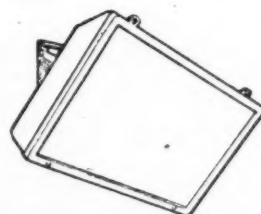
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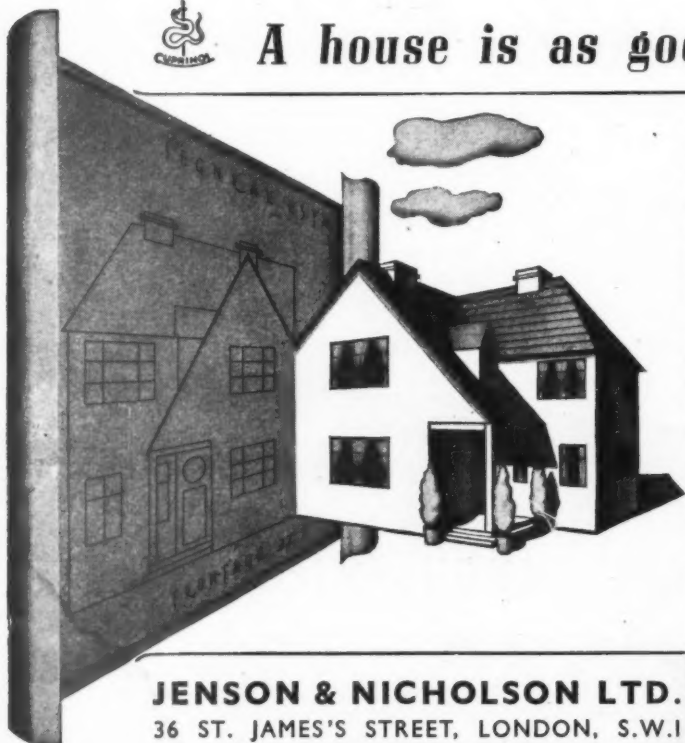
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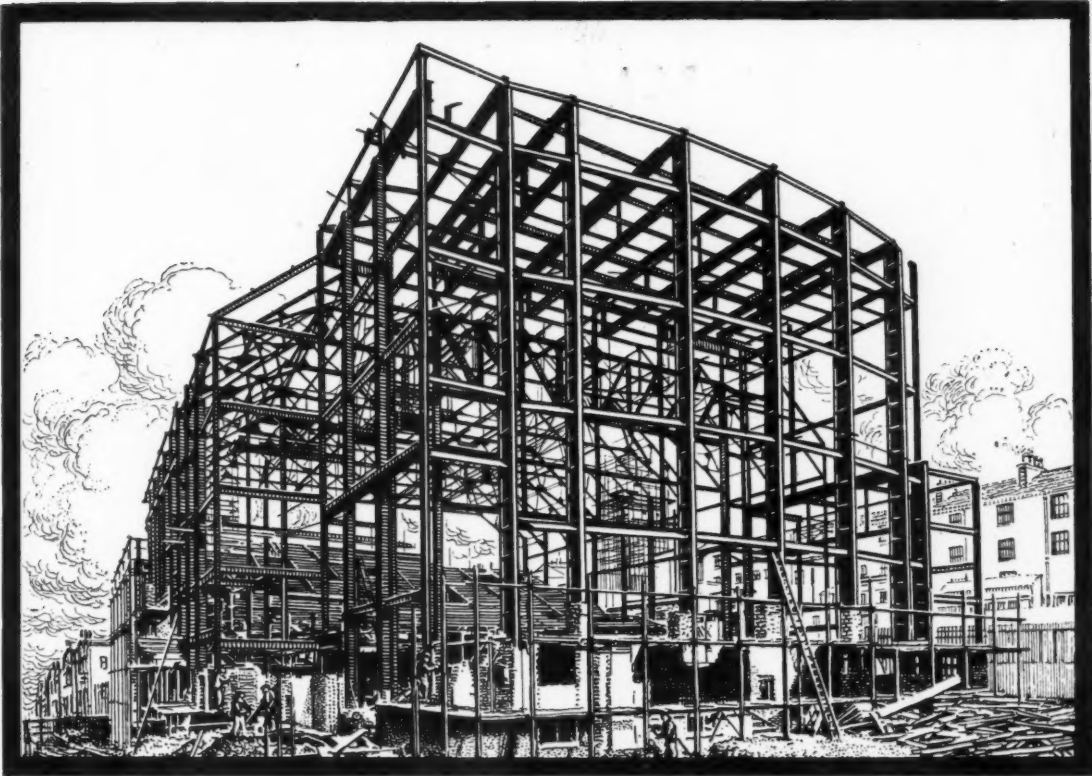
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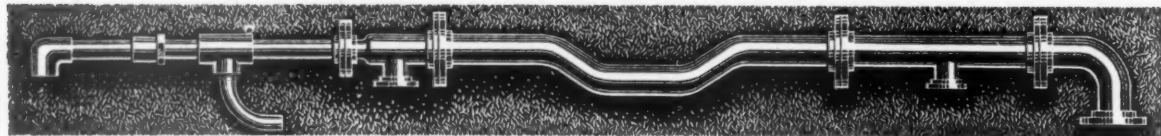


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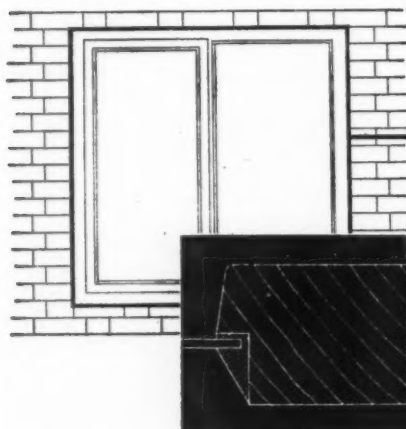
Graving Docks

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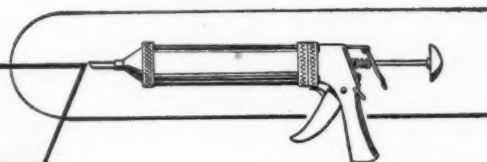
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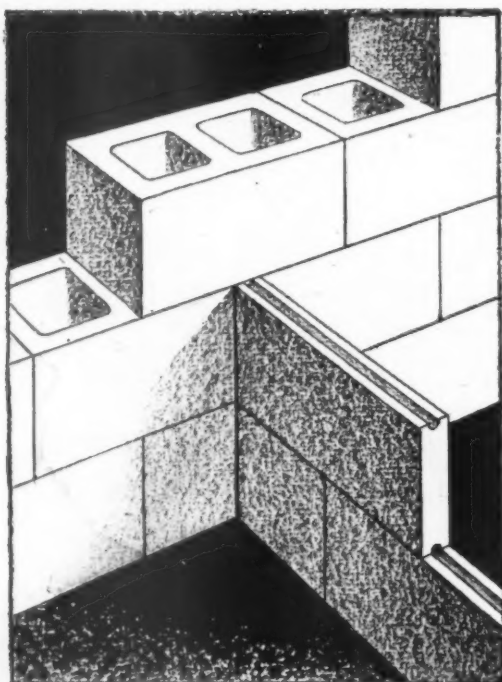
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# **"IDEAL" Background Heating**

brings a higher standard of comfort to the new homes of Britain



...with these new Ideal products—

## **The IDEAL FIRERAD**

—as shown above—a new type of hot water radiator fitted with an electric or flueless gas fire. The hot water radiator, which is connected to the Neofire, supplies the background warmth whilst the electric or gas fire provides the extra topping-up warmth when required. The Firerad is suitable for installation in a room of approximately 1,500 cubic feet. It is supplied in a cream stove-enamelled finish.



## **The IDEAL NEOFIRE**

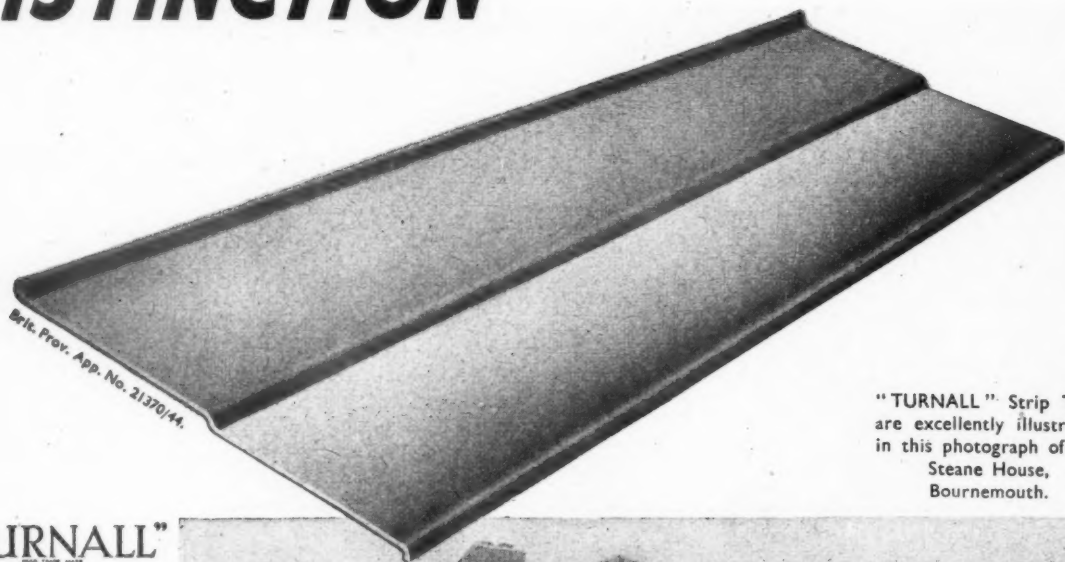
—an open fire which fits the normal surround with 16 inch opening. It has a specially designed cast iron boiler with sufficient capacity to heat approximately 40 square feet of radiation and to supply hot water by means of a No. 00C Ideal Indirect Cylinder. Whilst designed to burn coke or anthracite, the Neofire will operate efficiently on coal. It has a permanently fitted gas ignition burner.

*If included in the original plan, the cost of installation is offset by the elimination of fireplaces and flues.*

Ideal Background Heating is being installed in many thousands of the new homes of Britain. Ideal Background Heating appliances are, for the time being, reserved for these new housing schemes.

**Ideal Boilers & Radiators Ltd., Ideal Works, Hull, Yorks.**

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"TURNALL" Strip Tiles  
are excellently illustrated  
in this photograph of the  
Steane House,  
Bournemouth.

## "TURNALL" ASBESTOS-CEMENT STRIP TILES

### CONSIDER THESE FACTS:—

Overall Length 6 ft. 0 in.  
Overall Width 2 ft. 0 in.  
Weight per square 552 lbs.

FIXED DIRECT TO  
WIDELY SPACED  
RAFTERS

NO BATTENS OR  
BOARDING REQUIRED

HERE AT LAST IS THE  
ROOFING TILE WHICH  
EMBODIES SPEED AND  
ECONOMY IN APPLI-  
CATION WITH DISTINC-  
TION IN DESIGN.

WRITE FOR DESCRIPTIVE  
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TURNERS ASBESTOS CEMENT CO. LTD.  
TRAFFORD PARK

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S.T.1



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This hand forged and polished balustrade indicates the artistic possibilities of "Birmabright," the aluminium alloy which is particularly suitable for architectural applications.



# BIRMABRIGHT

BIRMABRIGHT LIMITED · QUINTON · BIRMINGHAM · 32



## Again available **PAROPA** roofing by **FRAZZI**

### **FIRE RESISTING FLOORS & ROOFS**

With nearly 40 years' experience in every type of floor construction—concrete slab, hollow block and self-centering, Frazzi engineers will be pleased to give every assistance in working out the best system for the job in hand, from the point of view of both construction and cost.

Widely used for roofing the better type of permanent building, for swimming pool surrounds, forecourts and terraces, the Paropa system is once more available to architects desiring an attractive, permanent surface, capable of withstanding heavy traffic. It is lastingly waterproof and applicable *in situ* to any flat surface, at any angle, to specified designs.

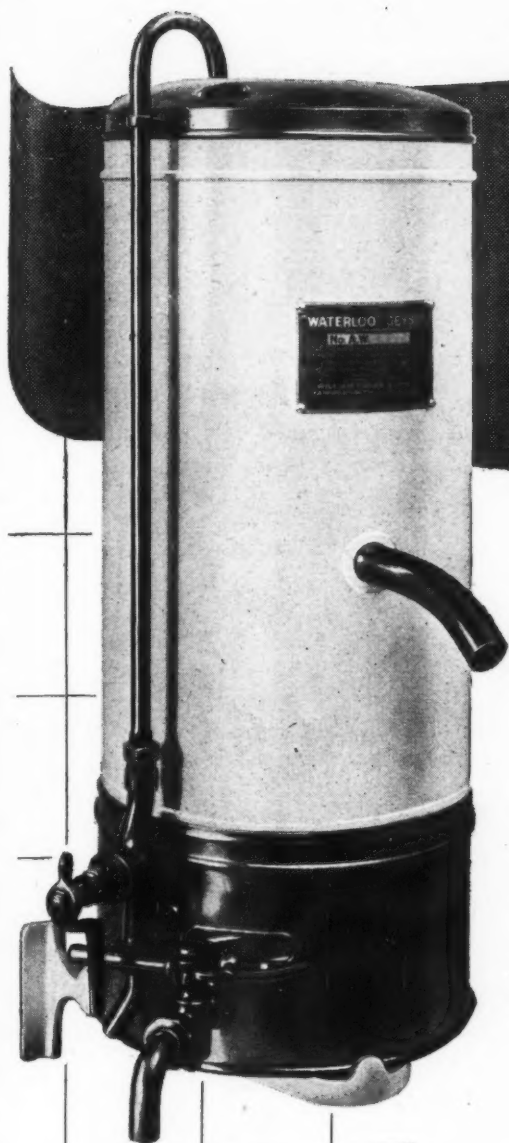
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Agents: Robert Kirk Ltd., Exchange St., Belfast. J. & W. Henderson Ltd., 93 West George St., Glasgow, C.2. Murphy Bros., 3 Castlewood Ave. Dublin, Eire.

F.S/A



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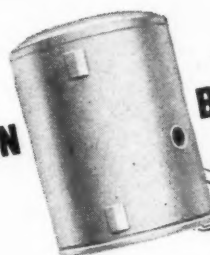


QUICKLY



THE INTERIOR CAN

BE DETACHED  
FOR EASY MAINTENANCE



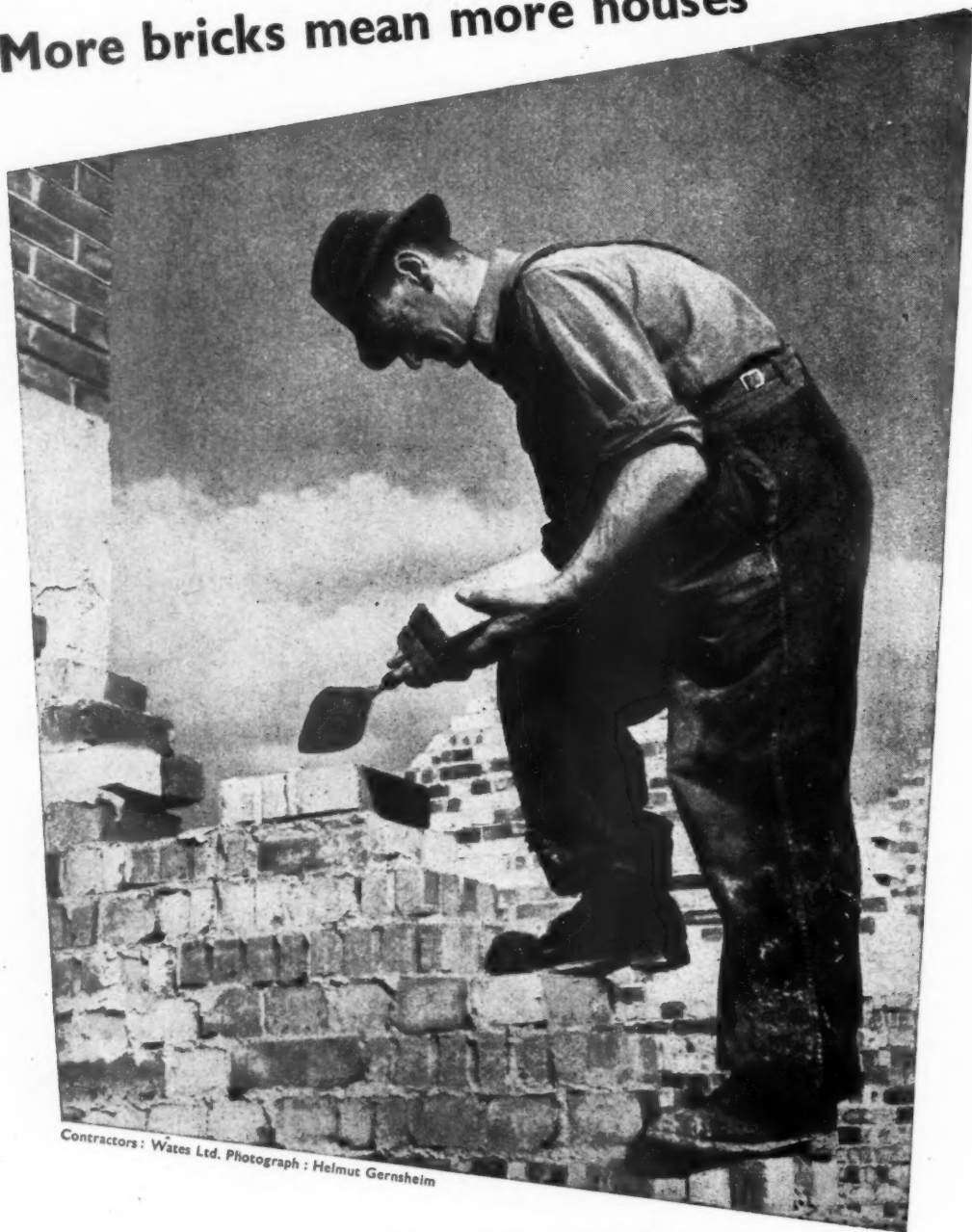
*Full particulars on application*

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UNDER CISTERN

AIRING  
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SERVICES TO  
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AND BATH  
(Taps included)

BRACKETS FOR  
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COPPER 30 GALLON  
HOT WATER  
CYLINDER

*Registered Design*

GALVANISED  
50 GALLON COLD  
WATER CISTERN

STOP COCK IN  
COLD FEED TO  
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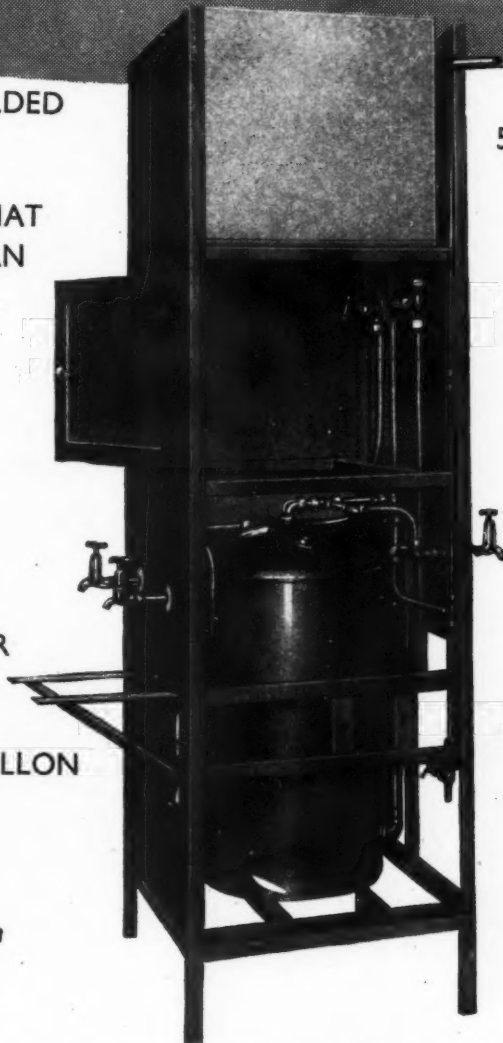
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SERVICES  
TO SINK  
(Taps included)

COPPER PIPING  
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STOP COCK IN  
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*Patent Applied For*



The Sycuto Plumbing Unit comprises a panelled frame containing a cold water cistern, airing cupboard and 30-gall. hot water cylinder, with supplies to sink, wash-basin and bath, and connection for water waste preventer. Provision is made for connection to boiler, and for thermostat and immersion heater. The unit provides instantaneous hot water, is easy to install, saves site labour and is completely accessible. The model shown is available in type 'A' for bungalows and type 'B' for dwellings extending over two floors. Alternative models are in course of development.

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# THIS

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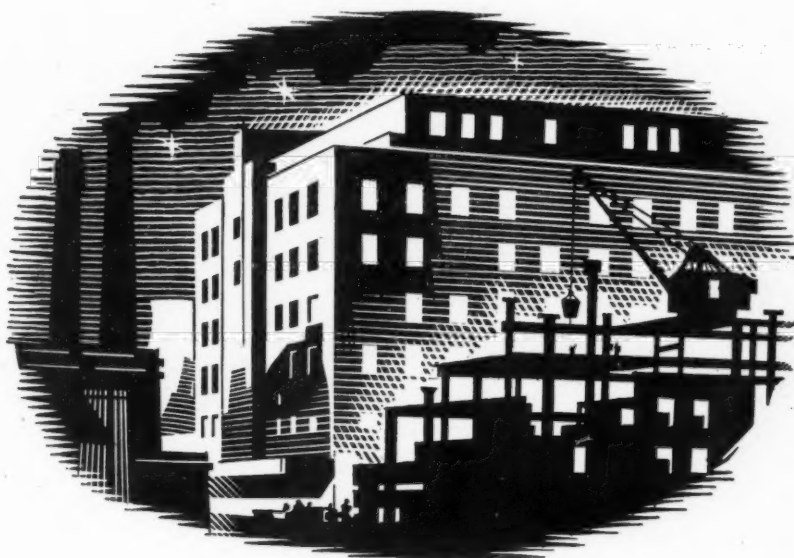
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*Sisalkraft is stronger than required by any standard specification (proved by official tests). Sisalkraft is being extensively and consistently used by Government Departments, Municipal Authorities, and Public Works Contractors: you cannot do better than to follow their example. Order now for prompt delivery. Write to-day for technical details.*



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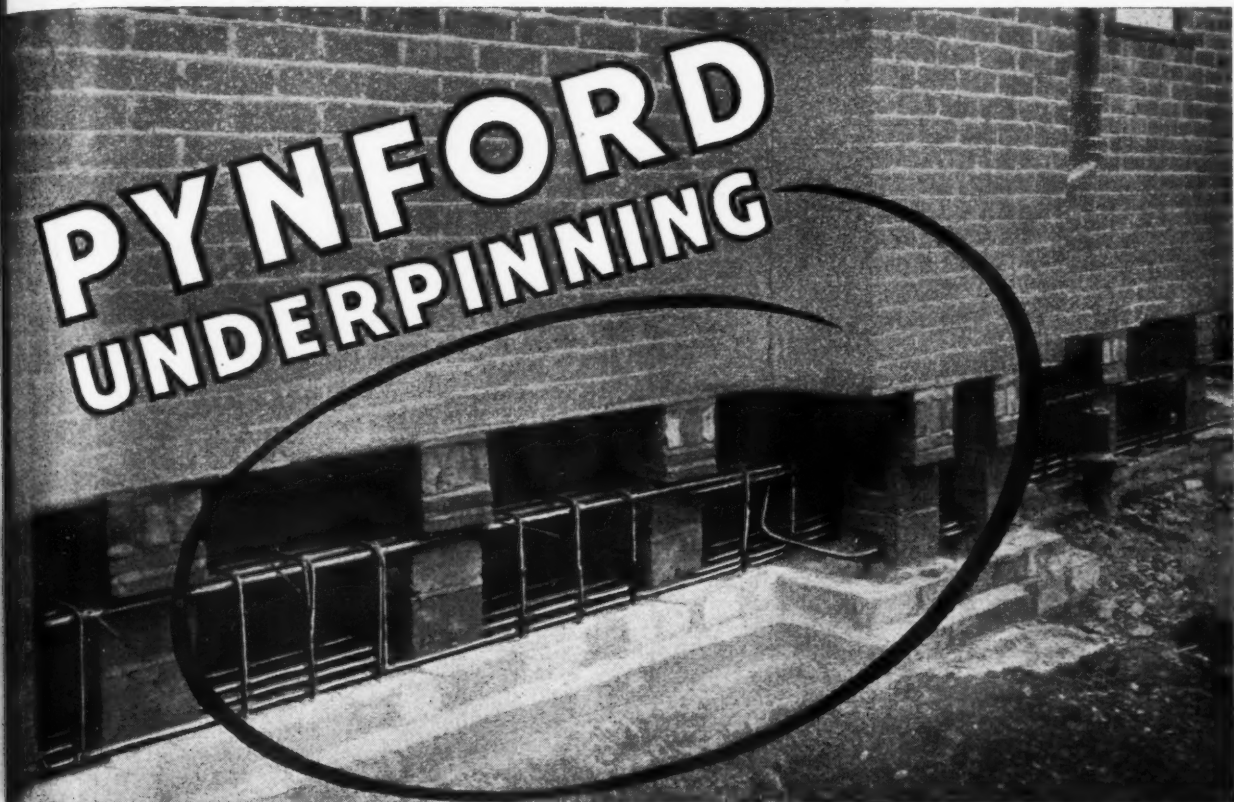
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## **NEW** *method of* **UNDERPINNING**

*gives remarkable savings in TIME, LABOUR & MATERIALS*

- The Pynford method enables beams of suitable size to be framed together under existing walls and so redistribute the building loads over the footings or carry the loads to the new bases or both
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- Patents applied for.

## **PYNFORD LIMITED**

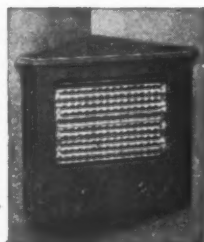
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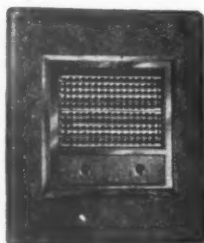
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THE MODERN HOME

As leading manufacturers of Electric Fires, Cookers and other Home Electrical Appliances, we offer over thirty years' intensive and specialised experience to all concerned in planning and building post-war homes.



New Corner Fireplace



Wall Panel Fire

The two fires illustrated are styled to modern tastes; they combine radiant and convected heat in a scientifically balanced output.

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Although our present production is largely absorbed by urgent Government orders for Housing requirements, all enquiries will receive our keen and enthusiastic co-operation.

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C.R.C. 531



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TIMBER CONNECTORS

'Bulldog' Connectors have solved the basic problem of Timber Construction. They enable simple joints to be made, in which the load is spread over almost the entire cross section of the wood.

In the past much larger sections of timber were needed in order to make the joints strong enough to carry the load.

Now, Timber Construction can be placed on a sound engineering basis, the consequent increase in efficiency bringing outstanding advantages.

and Save

**TIMBER  
TIME  
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MONEY**

1 While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.

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3 The members are then drawn together by means of the bolt until the projecting teeth of the metal plates are completely embedded in each contacting timber surface.

The 'Bulldog' Timber Connector consists of a steel plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of the plate.

'Bulldog' Timber Connectors are also made with teeth on one side only for timber to steel joints, or for portable and demountable timber buildings.

TECHNICAL ADVICE AND FULL DETAILS AVAILABLE ON REQUEST

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Timber Connectors

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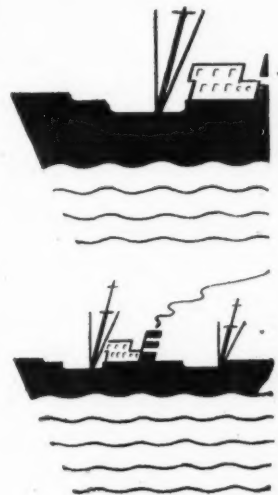
## *Without Weight*

THE design of EJMA windows is based on engineering facts and figures, and no more material is used than is necessary to give ample strength and a pleasant appearance. As a result—even in these days of timber economy—wood windows are being extensively used.

In a house with a floor area of 1,000 sq. ft., with timber restricted to 1.6 standards, the windows will account for no more than a small proportion of the total allowance.

### SAVES 45% SHIPPING SPACE IN TIMBER

Because of modern design and economies in manufacture, an EJMA window uses little more than half the timber compared with a pre-war standard window of almost the same size, and admits more daylight. All EJMA windows conform to brick dimensions for ease of erection.

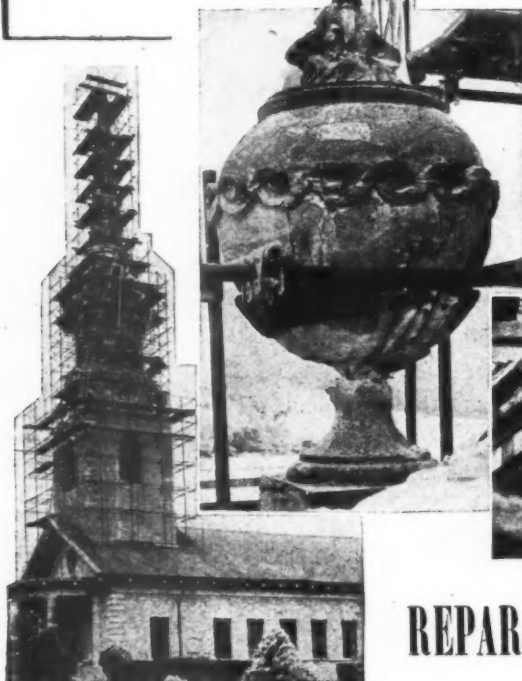


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W VI/5-46



## Putting Back the Past



*... Restoration under difficult conditions at Mereworth*

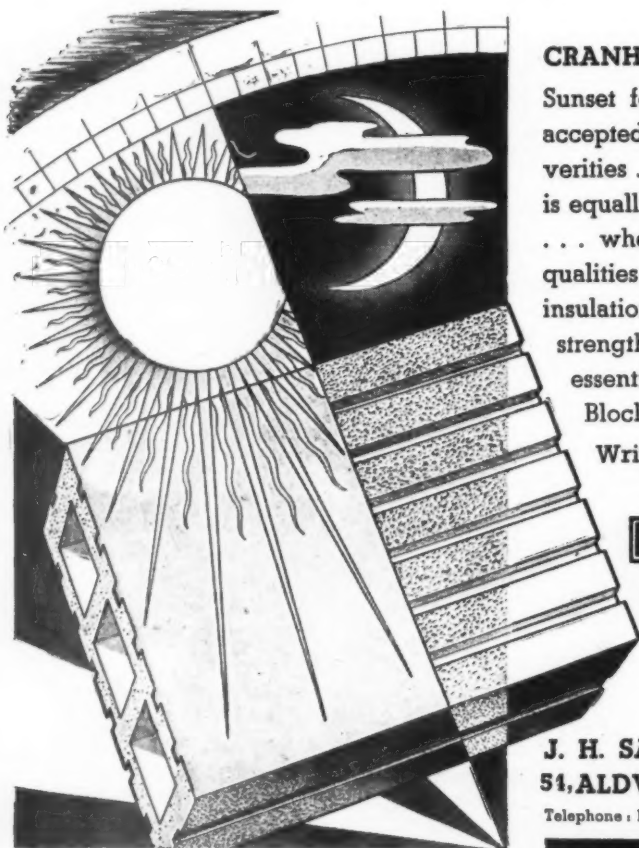
The hand of time had indeed touched the unique Mereworth Church in Kent, as the typical examples of erosion in the photographs show. But not beyond repair. Such difficult restoration work is not new to this Company, "Reparations" are proud of their record in this highly specialised field.



Enquiries will receive immediate attention. Please write.

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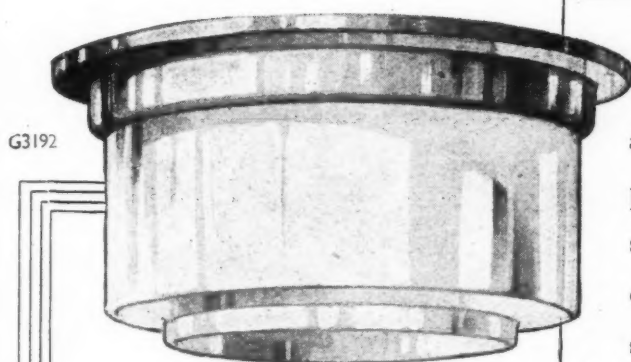
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Telegrams: Brickwork, Estrand, London



# Simple Ceiling Fittings

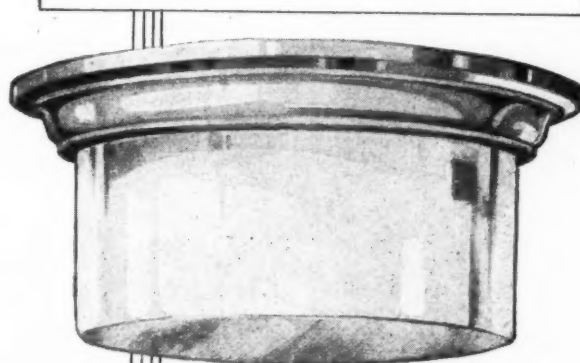
## FOR DOMESTIC AND GENERAL PURPOSES LIGHTING



These fittings are suitable for 60 or 100 watt lamp. Stove enamelled reflector interior. Glass 10" dia., overall dia. 12½", overall depth 5¼"

*Fittings complete with Lampholders. Arranged for Standard 2" Centres Fixing.*

AVAILABLE ex-stock in alternative finishes of chromium plated, coinage bronze or ivory stoved enamel. British-made obscured flint lipped glass dishes, special single screw fixing.



NOTE : Stepped or Flat-bottomed Glass, as illustrated, can be supplied to either model at same price and is available in Champagne or Peach Colour at extra cost.

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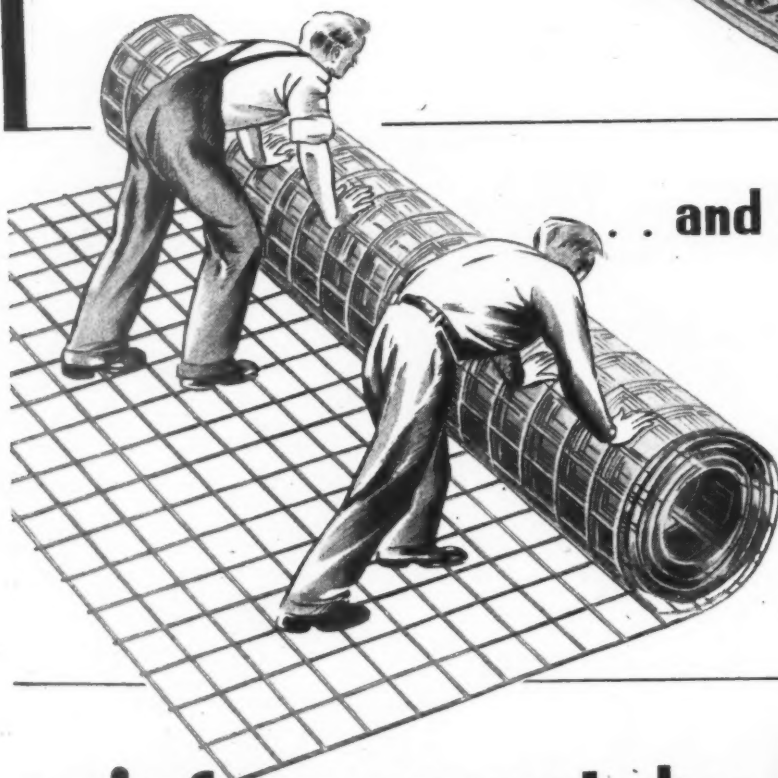
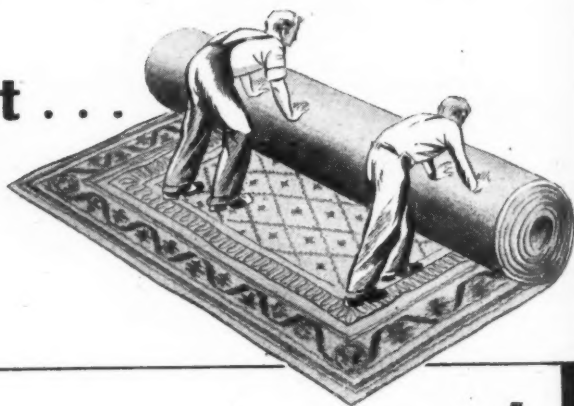
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ESTABLISHED 1780

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WELDED FABRIC REINFORCEMENT

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**McCALL & CO. (SHEFFIELD) LTD.**  
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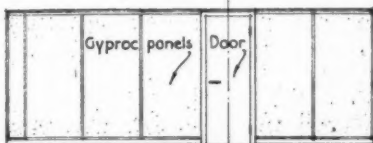
McCALL'S DESIGN SERVICE  
SRB. 12

# GYPSTELE APPLICATIONS

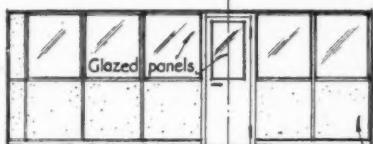
*The Gypstele system of unit construction applied to partitions.*



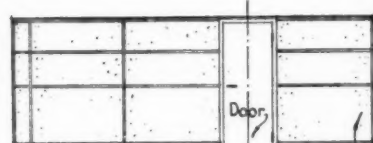
TYPE D.V. 42 Approx. height 4' 0"



TYPE C.V. 5 Approx. height 7' 0"



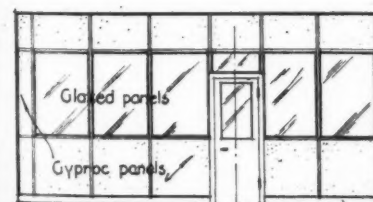
TYPE C.V.G. 36 Gyproc



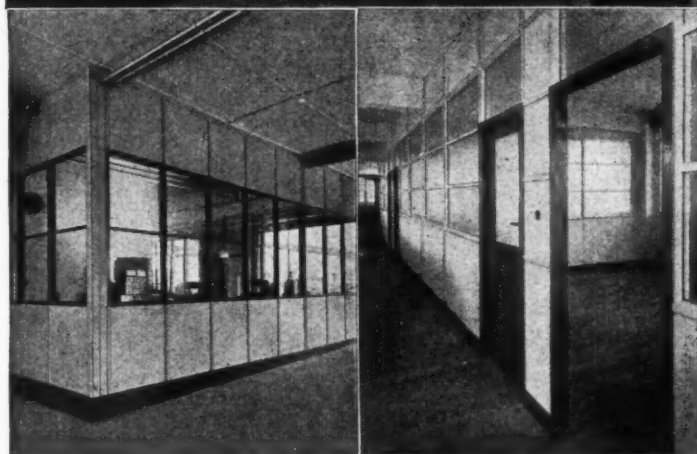
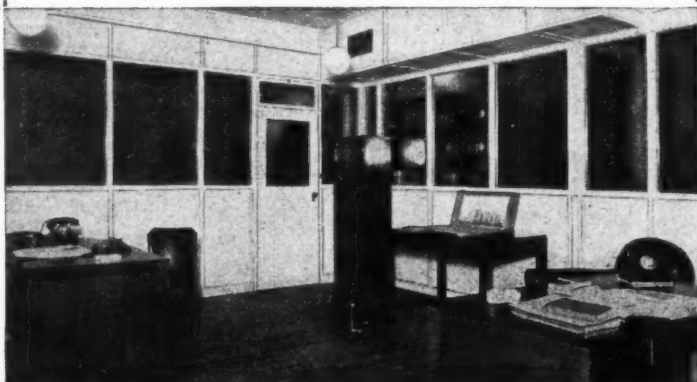
TYPE C.H.S. 42 Gyproc



TYPE G.H. 123 (Typical horizontal construction)



TYPE G.S. 4 (Typical vertical construction)



*Dry Construction 100% salvage value. Satisfactory sound resistance.*

The GYPSTELE System combines the use of Gyproc fire-resisting plasterboard with a series of patented metal sections. It provides an economical fire-resisting unit system of constructing lightweight, structurally strong partitions with a minimum of material and labour.

The metal components are specially protected against corrosion, and any desired paint or enamel finish can be applied.

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Glasgow Office: Gyproc Wharf, Shieldhall, Glasgow, S.W.1. Telephone: Govan 614. Telegrams: Gyproc, Glasgow.  
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Makers also of Gyproc Plaster Board, Gypklith Lightweight Building Slabs, Gypstele Ceilings, Plaxstele and Acoustele Ceilings.

G.S.1



Illustration shows Zinc Roof to Banana Shed at the West-India Dock. The Roof was originally laid by us 37 years ago and has just been recovered by Braby for the Port of London Authority. The need for a new roof was not due to corrosion in an industrial atmosphere but to bomb damage.

69,000 square feet of zinc were used in this contract.

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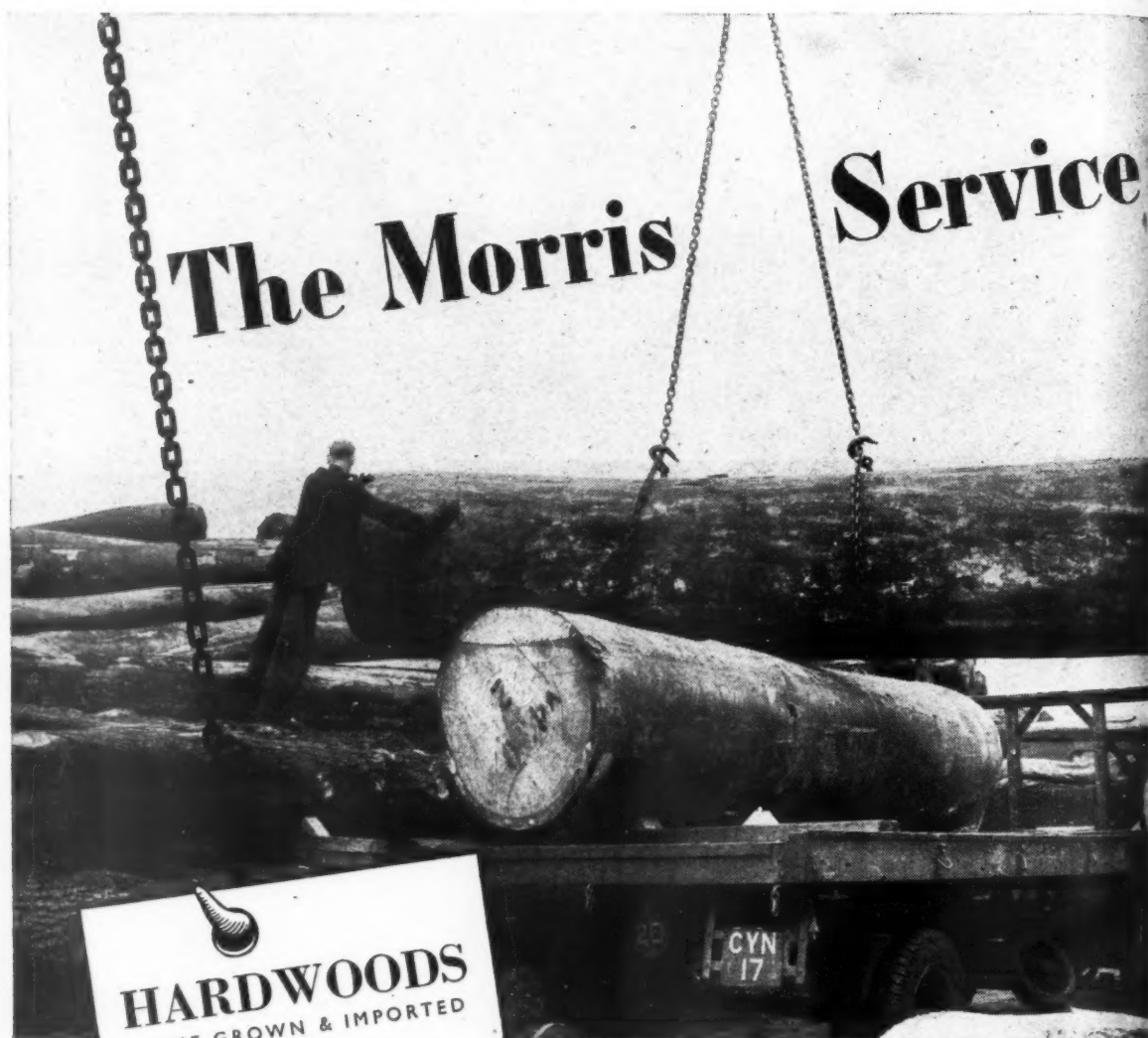
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Feb. 20, Feb. 27 not issued. See notice below.

In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order." Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw material now in short supply, are not necessarily available for export.



## 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 as given in the glossary of abbreviations on the front cover.

**CHESTER.** J. S. Pickles and W. H. Wills. *Rural Electrification. The Use of the Single-Phase System of Supply.* (Joint meeting of the IEE, North-Western Centre with the Mersey and North Wales Centre and the Chester Engineering Society.) 6.30 p.m. MAR. 17

**EDINBURGH.** H. A. Thomas. *Industrial Applications of Electronic Techniques.* At the Heriot-Watt College. (Sponsor, IEE, Scottish Centre.) 6 p.m. MAR. 12

**LIVERPOOL.** J. S. Pickles and W. H. Wills. *Rural Electrification. The Use of the Single-Phase System of Supply.* At the Liverpool Royal Institution, Colquhitt Street. (Sponsor, IEE, Mersey and North Wales Centre.) 6 p.m. MAR. 17

**LONDON.** *Exhibition of the King's Pictures.* At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until MAR. 16

*Danish Domestic Design.* Exhibition at the RIBA, 66, Portland Place, W.1. (Sponsor, CID and The Arts Council.) 10 a.m. to 6 p.m. Until MAR. 15

P. Schiller. *Comparisons between Gas and Electricity on the Basis of Coal Economy.* At the Institution of Electrical Engineers, Savoy Place, Victoria Embankment, W.C.2. (Sponsor, IEE.) 5 p.m. MAR. 6

*Brixton School of Building Association Re-union.* Reception and dance at the Bedford Hotel, Balham, S.W. MAR. 8

Reco Capey. *Craftsmanship.* At the Royal Society of Arts, 6-8, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. MAR. 12

W. H. Wattleworth, Divisional Sanitary Inspector, Liverpool. *Sub-let Houses and their Problems.* At the Royal Sanitary Institute, 90, Buckingham Palace Road, S.W.1. Chairman, George Laws. (Sponsor, RSI.) 2.30 p.m. MAR. 12

Ministry of Fuel and Power. *Illustrated lecture to the Institution of Heating and Ventilating. Associate Members and Graduates Section.* At the Junior Institution of Engineers, 39, Victoria Street, S.W.1. (Sponsor, IHVE, Associate Members and Graduates Section.) 6 p.m. MAR. 18

E. J. Rimmer, Barrister-at-Law. *The Legal Obligations of a Quantity Surveyor.*

At the Royal Institution of Chartered Surveyors, 12, Great George Street, Westminster, S.W.1. (Sponsor, RICS.) 5.30 p.m. MAR. 19

*Spanish Paintings.* Exhibition at the National Gallery, Trafalgar Square, W.C. (Sponsor, National Gallery and the Arts Council.) Until MAR. 23

J. Owens. *Some Aspects of, and Problems Associated with, Reconstruction.* At Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 5.30 p.m. MAR. 20

*Design and Development in Domestic Solid Fuel Appliances.* Conference at the Royal Society of Arts, 6, John Adam Street, Adelphi, W.C.2. (Sponsor, Women's Advisory Committee on Solid Fuel and the Council of Industrial Research.) 10.30 a.m. MAR. 21

*Modern Homes Exhibition.* At Dorland Hall, Regent Street, S.W.1. (Sponsor, Daily Herald.) MAR. 25

Noel Bercovici. *Some Trends in Modern Art.* At the International Arts Centre, 3, Orme Square, Bayswater Road, W.2. (Sponsor, IAC.) 8 p.m. MAR. 25

A. W. Hendry. *Stress Distribution in Steel Portal Frame Knees.* At The Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m. MAR. 27

Rt. Hon. Oliver Lyttelton, M.P. *Production.* At the Royal Society of Arts, 6-8, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. APRIL 16

John Hutton, Hon. Secretary, Society of Mural Painters. *Mural Painting as a Vital Art.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. MAR. 26

John Summerson. *How We Began—The Early History of the AA.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 6 p.m. APRIL 16

SCUNTHORPE. *History of the British Playhouse.* Exhibition at the Art Gallery. (Sponsor, The Arts Council.) Until MAR. 16

SUFFOLK. *Five-day Tour to Study the Problems, Methods and Possibilities of Planning Social Development.* The study will be based on the published Planning Survey and with the co-operation of the County Planning Officials. The headquarters for the tour will be A. S. Neill's School, Leiston. Cost, inclusive of coach tours and lectures, 70s. Details from the Ethical Union, 4a, Inverness Place, W.2. APRIL 8-13

## 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. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

★ 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 features marked with more than two stars is very big building news indeed.

★  
The executive committee of the Town and Country Planning Association: We have no hesitation in approving the general principles of the TOWN AND COUNTRY PLANNING BILL, and welcome the reform of planning procedure and the making of compensation a national instead of a local charge.

### NOTICE TO SUBSCRIBERS

The expiry date of all current subscriptions to the Journal is being extended by two weeks to compensate for the issues of February 20 and 27, which were not published on account of the Government's ban on periodicals.



# Craftsmanship IN FINE WOODS



*The lounge furniture illustrated was made of walnut and designed and constructed by Messrs. Beresford & Hicks.*

WHEN the skill of the modern craftsman is applied to the choicest of timbers the result can be work of outstanding beauty. There could be no better example of this than the furniture to be used by Their Majesties and Princess Elizabeth at the Victoria Falls Hotel, Rhodesia. The hardwood and veneers, together with the resin-bonded plywood cores and Blanchit for developing colour tones, were supplied by William Mallinson & Sons, Ltd.

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## From AN ARCHITECT'S Commonplace Book

**WHY THE WESTMINSTER GRILLES WERE REMOVED.** [*From English Church Monuments, 1510-1840, by Katherine A. Esdaile (Batsford).*] We are apt to regret the grilles or railings round many tombs, though a great many of them have been ignorantly removed. They often form a sad barrier, it is true, to the search for a signature . . . but the grilles have an interesting history, since the corners originally formed prickets on which symbolic candles were placed and lit, the flaming urn being a frequent later development ; . . . Often these grilles are quite exquisite examples of ironwork, and occasionally they are so arranged so as not to interfere with a full view of the effigy. As a glance at Dart's *Westminster* will show, the Abbey once had a very large number of examples, but most were removed for a curious reason. Chantrey, when consulted by Dean Vincent and the Chapter as to how to stop the perpetual mutilation of the Abbey monuments, "recommended to their surprise that all the iron rails round them should be removed"; "We do not understand John Bull," said the sculptor; "we are always by our prohibitions saying you shall not come here, and you shall not go there, and John Bull says, 'I'll bet you see that I will.'" He added that a friend of his, who had been educated at Westminster, told him that it was considered an achievement, to be accomplished by every Westminster boy, to scale the railings that surrounded the monument of John, Duke of Argyll, and that, being very active, he often succeeded in this feat, but never without leaving his name on the monument.

★ *Mr. Silkin, Minister of Town and Country Planning, has decided to make the HEMEL HEMPSTEAD NEW TOWN (Designation) Order, 1947, with certain modifications.* Exclusions involve 1,610 acres on the south side of the railway, the mills of Messrs. Dickinson, and several areas of farmland on the west and north-east of the designated area. The total area excluded since the public inquiry is 2,020 acres, and the area to be designated is 5,910 acres. Mr. Silkin says that some disturbance of private interests is inevitable, but it will be kept to a minimum. He has been advised that building can be carried out without undue difficulty or expense; that with careful planning the natural features will add to the attractiveness of the town; and that there is no difficulty with the present limitations of the single-track railway from Hemel Hempstead to Harpenden sufficient to jeopardize the town's development. Sewage and surface water will present no great difficulty, nor prove disproportionately expensive. Answering representations that the new town would tend to develop into a dormitory to London, Mr. Silkin says that accommodation will be offered to those who wish to work there. Ample opportunities for local employment would be provided.

the House, and will ask them to consider the matter in that connection. Mr. Nicholson: Is it not a fact that the lighting of the new Chamber was arranged by the Select Committee which arranged the new Chamber, and that full details will be found in their Report? Mr. Key: I am not at all certain whether they gave consideration to fluorescent lighting or not, but I shall ask for the advice of hon. Members of this House in connection with it.

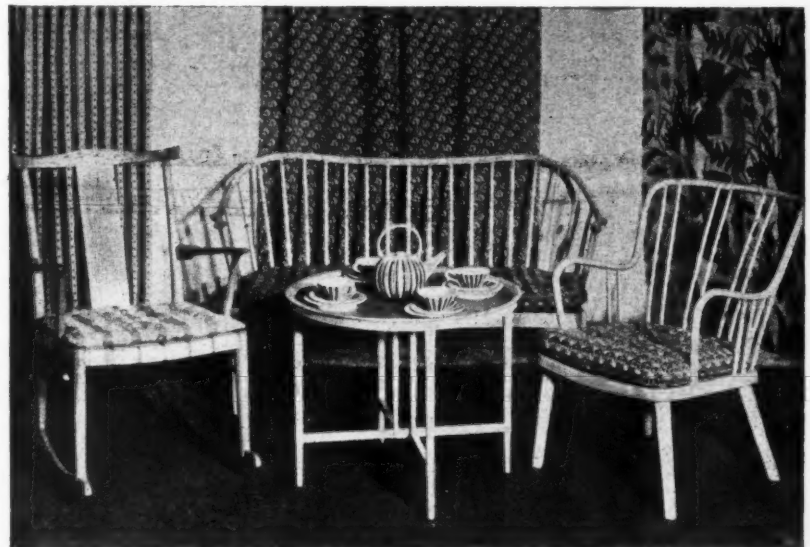
★★ *The following statement has been issued concerning the RIBA EXAMINATION CONCESSIONS for students whose studies have been interrupted by war service.* It has been decided that the RIBA scheme of examination concessions for students whose studies have been interrupted by war service shall be available to those called up after the end of the war with Japan but before January 1, 1947, whose age group does not entitle them to deferment. Particulars of the scheme and the form of ap-

plication may be obtained from the Secretary, RIBA, 66, Portland Place, London, W.1.

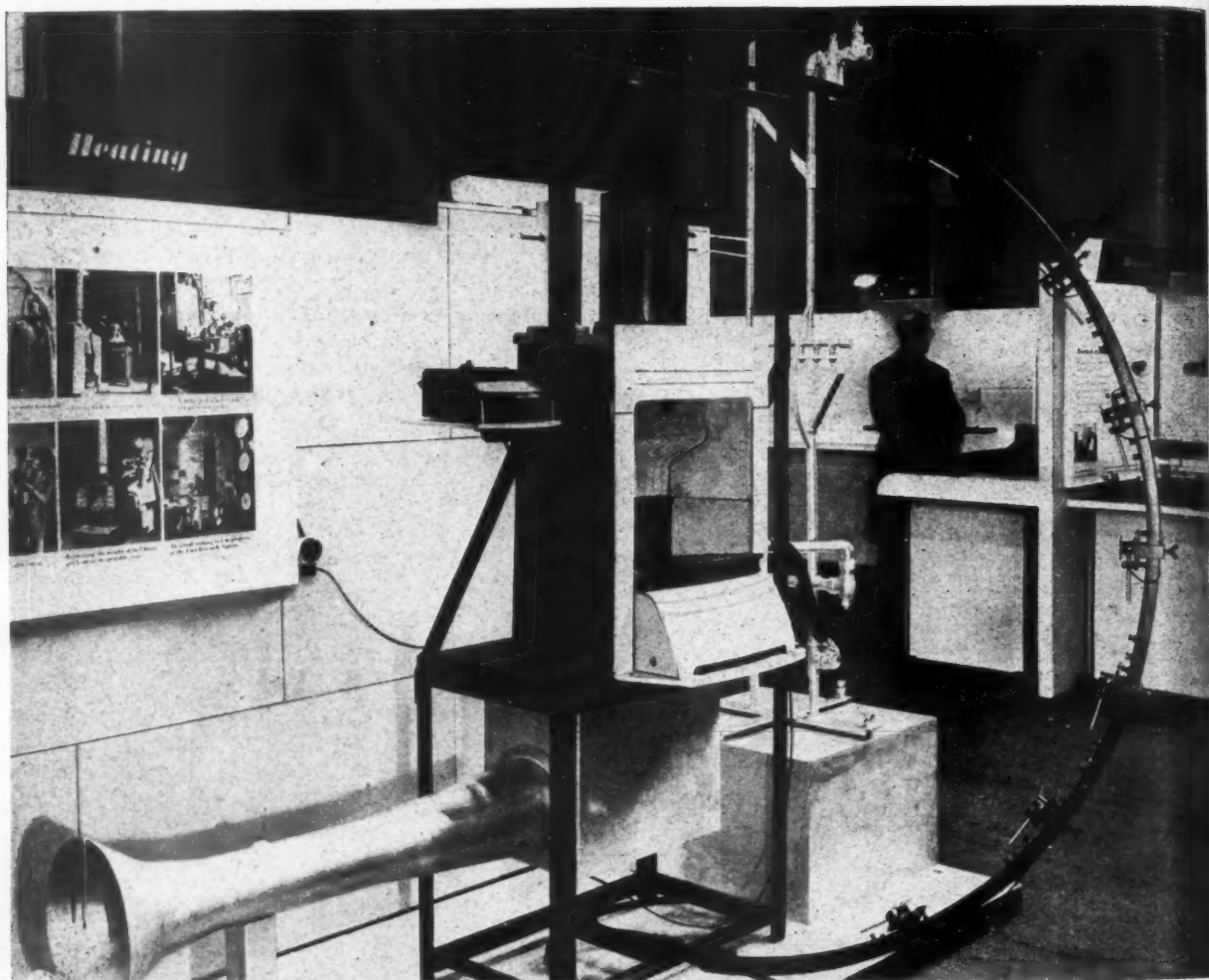
### *British experts have left for America TO STUDY DISTRICT HEATING.*

It was announced by Mr. Franklyn Williams, Ministry of Fuel and Power, who deputised for Mr. Shinwell at the dinner in London of the Institution of Heating and Ventilating Engineers, that a party of experts left on the *Queen Elizabeth* for America on February 13 to study district heating. It consists of representatives of the Ministry of Fuel and Power, the Ministry of Health, the Ministry of Works, the Building Research Station, the Heating and Ventilating Reconstruction Committee and the Scottish Regional Fuel Efficiency Committee. The party will be away for about six weeks and their investigation will include an examination of the economics of district heating installations, both in relation to their size and in comparison with American methods of heating single houses by other means and with different fuels.

*In the House of Commons Sir Waldron Smithers asked the Minister of Works whether he will give an assurance that, in rebuilding the destroyed and damaged parts of the PALACE OF WESTMINSTER, arrangements will be made to instal the most up-to-date system of fluorescent lighting.* The Minister of Works (Mr. Key): Experiments are being carried out to determine the most suitable type of artificial lighting for the purpose, and fluorescent lighting is being considered, together with other types. Sir W. Smithers: Does not the right hon. Gentleman realise that the present system of lighting in this Chamber, for instance, when it is alight is wasteful and harmful to the eyes; and will he, as soon as possible, introduce up-to-date and scientific methods of lighting, of which fluorescent is one, in all public buildings? Mr. Key: I am thinking of setting up an advisory committee of Members with regard to the new parts of



*Furniture at the Exhibition of Danish Domestic Design which is open at the RIBA until March 15. The armchair on the right and the butlers' tray, both in ash are designed by Fritz Hansen, the ashwood sofa and cushion are by Herman Olsen and the cherry-wood rocking chair is by A. O. Larsen. All the furniture was made by Fritz Hansen.*



## Science Aids Fuel Economy

The recent fuel crisis has shown how narrowly our comfort is based on the pile of coal in the merchant's yard. One way in which the building industry can help to increase the margin is in increasing the efficiency of solid fuel burning appliances. The test apparatus in our illustration was developed by the Fuel Research Station, and was exhibited recently at the BRS and IAAS Building Science Exhibition at Caxton Hall. It is typical of the apparatus evolved in recent years for the accurate measurement of building performance. Radiation from a domestic fire,

provided with water heating boiler and hot air ducts, is measured by means of the thermo-couples attached to the semi-circular metal frame, seen on the right of the photograph above. The apparatus on the extreme right determines the heat given to the hot water boiler, the wind tunnel at bottom left is part of the apparatus, which determines the heat content of the air from the heating duct. The heat content of the flue gases not fully available as usable heat is also measured. By means of this set-up the overall efficiency of heating equipment can be accurately assessed.

*This year the twenty-first TOWN PLANNING INSTITUTE ANNUAL COUNTRY MEETING is to take place at Torquay and not at Rothesay.*

The Council regrets that, owing to difficulty in reserving the necessary accommodation, it is not possible to proceed with the proposal to hold the Country Meeting at Rothesay in 1947, but hopes it will be possible for Scotland to be the venue in 1948. It has therefore been arranged to hold the 21st Annual Country Meeting for 1947 at Torquay from Thursday evening, May 29, to Saturday, May 31, inclusive, under the chairmanship of the President, Mr. H. W. J. Heck. The Mayor and Corporation of Torquay will hold a reception on Thursday evening, May 29; matters of

town and country planning interest will be discussed; visits will be made to Exeter, Plymouth and Dartmoor, and the Institute dinner will take place at the Grand Hotel, Torquay, at the conclusion of the programme on Saturday evening, May 31. Will those who propose to attend the meeting let the Secretary, Town Planning Institute, 18, Ashley Place, London, S.W.1, know not later than March 31, and a programme with details of charges will then be forwarded. They should also include the names of any guests so that any invitations, etc., may be forwarded. Members will make their own arrangements for hotel accommodation, but are advised to do this immediately and are asked to wear evening dress for the reception and Institute dinner. The headquarters will be at the Grand Hotel. The meeting is not confined to members of the Institute—friends are invited.

★★

*Mr. E. Brian O'Rourke and Mr. Cecil Masey are to be the ARCHITECTS FOR THE NATIONAL THEATRE on the South Bank of the Thames.*

The joint council of the National Theatre and Old Vic has announced that Mr. E. Brian O'Rourke and Mr. Cecil Masey will be the architects for the National Theatre to be erected on a site allotted by the London County Council on the south bank of the Thames between Waterloo and Charing Cross bridges. Mr. O'Rourke's appointment has been made upon the recommendation of an architectural advisory committee. Mr. Masey previously collaborated with Sir Edwin Lutyens over the plans for the South Kensington site, and his services are being retained.

★★

*Lord Cranworth : To put a big waterworks abutting on the High Street of Dedham is fundamentally wrong and CONTRARY TO GOOD PLANNING.*

In the House of Lords Lord Cranworth moved that it be an instruction to the Select Committee to which the Tending Hundred Water and Gas Bill might be referred that before authorizing the powers sought under Part 2 (Works and Lands) of the Bill they shall satisfy themselves that (a) due consideration has been given to the desirability of conserving the amenities of Dedham Vale; and (b) that it will not be possible to obtain the required water from any other source except at a cost which in the committee's view, taking into account the desirability of conserving the amenities, will be prohibitive. He said that the Bill gave the Tending Hundred Waterworks Company the right to set up a waterworks in the village of Dedham. The company is seeking to obtain almost unlimited powers to develop a site acquired in 1911. Surely it is absurd to say that the Dedham site is the only possible place from which to supply water to Clacton, which is about 15 miles away? To put a big waterworks abutting on the High Street of Dedham, which has just been declared an ancient monument, is fundamentally wrong and contrary to good planning. Objections to the scheme are that it is incompatible with the beauties of the village; that the noise of the diesel engine could be heard for a distance of three to four miles at night; but the strongest objection is the spoliation of the Constable country. Constable has made the Dedham Vale a place in the very highest estimation among artists and other people. Every year tens of thousands of people visited the area, and even Clacton, on whose behalf the spoliation is suggested, ran services to see the beauties of the Vale. Lord Teviot said he had been asked on behalf of the company to accept the motion. It was agreed that the matter should be thrashed out in a Select Committee. Lord Esher said that if Dedham Vale is offered to the National Trust, the Trust will accept it immediately. The Earl of Drogheda, Chairman of Committees, said the promoters and objectors will be given opportunity to be heard before the committee, and to call evidence. The Earl of Listowel, Postmaster-General, said the Bill is already being exhaustively examined by the Ministries of Health and Town and Country Planning, who intend to inquire into the effects of the proposals on the amenities before they submit their report to the Select Committee. The motion was agreed to.

*The old College of Medicine, Newcastle, is to be converted into a DENTAL SCHOOL and Hospital.*

The signing of a contract for the conversion of the old College of Medicine buildings in Northumberland Road, Newcastle, for use as the Sutherland Dental School and Newcastle-on-Tyne Dental Hospital has been authorized by the council of King's College, the Newcastle division of the University of Durham. During the war the buildings were occupied by the Ministry of Supply. The dental school and hospital are now in the Royal Victoria Infirmary, Newcastle, and the conversion of the old Medical School has been made possible by a gift of £50,000 by Sir Arthur M. Sutherland, the Newcastle shipowner, who was presented with the freedom of the city in July, 1936, and to mark the occasion announced gifts of £111,000. In 10 years his benefactions within and outside the city had then exceeded £350,000.

## DISTRICT HEATING

**S**LOWLY, but not so slowly as might have been expected, we appear to be moving from a period of discussion to one of action in the extremely important field of communal heat services provided from central heat stations. Critics of our slowness in adopting new ideas have for years been pointing to the success of district heating in America, Europe and Russia and asking why we could not have similar installations in this country.

Any provision of large scale communal service of this kind must necessarily involve extremely heavy capital outlay so it is not surprising if official action is somewhat cautious, but it is clear that in spite of criticism there has in fact been a great deal of investigation proceeding. The authoritative report of the Heating Committee of the Building Research Board is still awaited but mean-time official publications have included a memorandum on District Heating of Small Housing Estates and a note in the New Towns Report, while a whole session was given to this subject in the recent Ministry of Fuel and Power Conference on Heating. Moreover, not only has war-time practice enabled our engineers to obtain a valuable increase in experience on the large scale heating of multiple building factories, but a number of local authorities have prepared schemes covering reconstruction or new areas and several of these have received official approval and at least one is already in partial action.

Clearly there are large social and economic factors involved, but what we wish to draw particular attention to is the influence which district heating will have on town planning, estate lay-out and individual house planning. Professor Holford in his paper to the Fuel Conference spoke particularly of the Town Planning implications, mainly in terms of the large district heating scheme. There is, however, the question of adopting small communal heating plants for limited housing developments. The position here is far from clear. Last winter Mr. Robert K. Thulman, a heating expert from the USA appeared to think that small plants capable of dealing with 50 or more houses would be feasible and presumably he had in mind the experience of such schemes which are in satisfactory operation in America. A memorandum from the Ministry of Fuel suggests, however, that schemes as small as this are unlikely to be practicable. We suggest that a further investigation is required because clearly it may be a great deal easier to carry out a number of small scale installations than to go forward with very large schemes.

It is with such smaller schemes that the grouping of the dwellings may have a very appreciable effect upon the capital cost of the heating system and where, therefore, the estate planning problems raised by the heating system may provide an opportunity for some fresh ideas from architects.

In the case of the individual house the problems will be basically the same whether the district heating covers a small or large number of houses. Two essential points will need



consideration. Is the central heat source to be the only method of heating within the house and how will the provision of constant and complete house heating affect plan requirements? In many ways these problems are similar to those faced by the house planner who is contemplating any system of complete house heating. To us they suggest the possibility of considerable changes in the small house plan.



*The Architects' Journal*

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## N O T E S

&

## T O P I C S

### BEAUTY ADORNED

It was a pleasant surprise to notice that someone has made a start towards stripping from the tower of St. Mary Woolnoth the notices that defaced it. These unfortunate accents called attention to the even more unfortunate fact of the Underground station built into the vaults of the church.

\*

No doubt the Bank Station is there for good and with it the semi-circular wall projecting in front of the church, which is no part of the original plan and hides the base of the tower. No doubt, also, we must put up with the hanging metal signs with the familiar Underground symbol and the notices of Public Telephones at the entrances that flank the church. And again we must bear with the screen of small shops that blockades the south side of the building. But need the wall in front be used as a hoarding—and by

the LPTB who usually give us good buildings instead of spoiling them?

\*

There are at present seven posters displayed on one side of the entrance grille and six on the other. Between these exhibits and fixed to the railings are six wooden notice boards. Two modestly announce the name of the church, the other four bear painted posters advertising activities connected with the church. While it is quite proper that such announcements should be made, it is surely unnecessary to quadruplicate the same information so boldly within a few square yards. There are two permanent notice-boards standing just inside the railings. Could these not better serve the parish by bearing the notices than by hiding behind a series of bargain-basement improvisations stuck up on the grille in front of them?

\*

Thus divested of all but excusable adornment and the usual quota of hydrant signs, St. Mary Woolnoth need not look with so louché an air across to the unblemished walls of the great financial house over the way. Incidentally, there is a wastepaper basket ready at hand—fitted to the north-east corner of the church.

### THE PUBLIC PROTECTED AGAINST ITSELF

Stevenage (*alias* Stephenage, *alias* Silkingrad) is in the news again, following the High Court judgment quashing the Minister's Order under the New Towns Act. The first reaction of most householders, already shivering with cold and economic apprehensions, and irked by restrictions, regulations and ministerial homilies, was one of relief that the liberty of the subject could still be asserted. But this was quickly succeeded by a doubt as to *whose* liberty was being vindicated—that of a small handful of owners, or that of a large number of families living in congested parts of London, seeking every-

where for a new home, and confidently expecting the Government to find them both jobs and houses in one of the New Towns.

\*

Looked at more closely, the judgment comes down to a legal interpretation of the Minister's attitude towards the public enquiry. The Judge held that the enquiry was bound to be quasi-judicial, and that the Minister approached it with the intention to carry through the scheme and therefore could not have had a mind open to conviction by the objectors. So it appears that Mr. Silkin has been tripped up, not by a weakness of principle or practice or by indecision or lack of planning, but by the wrong tactics of procedure in an effort to get things done too quickly.

\*

It is a pity that this legal decision should result in delay over Stevenage, where the case made by Abercrombie at least two years ago is strong on technical grounds, despite the difficulties referred to by the Metropolitan Water Board and the Lea Causeway. These difficulties are not insuperable, and they and many others will have to be overcome in the creation of a new town. At Crawley-Three Bridges the technical objections are more serious, and some delay there may be more easily justified. But delay in the programme as a whole, already approved by Parliament and endorsed by public opinion, would be a calamity; since the whole case for the appointment of special Corporations depends on the work being speedily carried out.

\*

The Minister has now decided to appeal. If his appeal is rejected it will be interesting to see whether a new enquiry will be held or whether an amendment to the procedure under the Act will be sought.

### DANISH FOCUS

The photographs and literature you can see at the Danish Domestic Design Exhibition at the RIBA tells the interesting story of how the Danes create a focus in their living rooms. Since they warm their rooms either by central heating or by massive stoves no focal point can be created round an open fireplace. Instead a window becomes the central feature, and



around it the Danish housewife assembles miniature gardens or elaborate window boxes. As in Sweden, climbing plants are often trained up the architraves and even sometimes up the net curtains—a charming conceit which will hardly be practicable in this country until the smokeless air people have won their battle.

One naturally compares the Danish furniture with that of Sweden, and if the exhibition is truly representative one is compelled to conclude that the Swedes are more imaginative. Rather surprisingly the designs are very light and delicate, and it is difficult to picture a burly, boisterous farmer from Fünen expanding with laughter in one of those spindle-backed settees.

But the craftsmanship of the Danish articles is superb, whether furniture, stainless steel, or silver ware. As you would expect, the Jensen silver articles are especially fine.

#### POTTED PUBLICATIONS

Just what is and is not recommended by the Ministry of Works, the DSIR and various other official bodies is probably as much of a headache to you as it is to me. Even if I can remember that some recommendation has been made, I hardly ever know where to find it, or whether it has been modified since the last time I looked it up.

Mr. Colin Penn's book,\* which is a careful cross reference to all official publications, is therefore just the thing to save me trouble. So much has been published that there is scarcely time to read it all, let alone learn one's way about it. Mr. Penn solves the problem with a full alphabetical index to all the items referred to, and follows it up with brief notes on all official publications up to the autumn of 1946.

The book started as a joint attempt by Mr. Penn and Mr. Carter, designed especially for architects coming out of the Forces and knowing little of what

had been going on, but it seems to be just as useful even for people who have been here all the time.

#### MANY A BICKER MAKES A KNUCKLE RAP

Mr. Connolly, the editor of *Horizon*, has written to the editor of the A.J. taking me to task for my paragraph on January 30 on *Horizon's* Ugliest Building Competition. He writes:—

"Sir,—Nothing made me realise more abruptly that I was back in England than reading ASTRAGAL's knuckle-rapping comments on my travels, framed in that war-time mood of literary bickering which now seems our permanent climate. May I say, first of all, that as an author being interviewed by the *New Yorker*, I would naturally make with a certain levity remarks which he has preferred to consider wholly serious and applicable to the Editor of *Horizon*. Secondly, that the entries for the Competition were judged by the Art Editor of *Horizon*, which I do not happen to be. Thirdly, that if he thought the entries so bad, why did he trouble to reproduce them in full in your valuable space without the usual courtesy of asking our permission? If he had studied *Horizon* more closely he would have found that we admitted that it was extremely difficult to decide what was ugly and what was not, and that we were continuing the Competition for a further six months to enable more people to go in for it, and to overcome the difficulties of getting negatives developed and printed within the time allowed.

Needless to say I entirely agree with the judge's decision. We eliminated several buildings which were grotesque rather than ugly, but the villa in Luxembourg, when seen in the full size illustration, undoubtedly was hideous in its own right. *Corruptio optimi pessima!*

A correspondence on the merits of the Lawn Road Flats will be found in the March issue of *Horizon*. The fact that ASTRAGAL asks your own readers to suggest ugly buildings shows that he is no less willing to borrow the idea of the Competition than its results.

Yours faithfully,

CYRIL CONNOLLY"

Sincere apologies to *Horizon* editor for publishing the results of the Ugliest Building Competition without *Horizon's* permission. No apologies, I'm afraid, for my comments upon them, which remain unanswered. The news that these comments will be still further attacked—or reinforced—in the March issue of *Horizon* is however most encouraging. We haven't had a thoroughly good architectural argument by correspondence since the famous Blomfield-Byron contest over Carlton House Terrace. We hope all participants will take advantage of the fair field provided by *Horizon*, and we are confident that those who know the ropes will send the others flying through them.

ASTRAGAL



## LETTERS

Herbert C. Field

R. F. Leather,  
(Sales Development Manager, Pilkington  
Brothers, Limited.)

### Registration

SIR,—Messrs. Lloyd and Myers reveal a complete misconception of the purpose of the ARCUK. The awarding of Registration for seven years' practice prior to August, 1938, was a most regrettable necessity and was done purely to avoid inflicting hardship upon those who, regardless of their ability, were practising in some manner as architects.

The influx of all and sundry who had this meagre qualification has produced a Register which can but be described as lamentable. The suggestion that this "occupational qualification" should be revived as a means to registration would, if accepted, still further debase the Register in the eyes of the profession and, moreover, delay the day when Architectural Registration can be regarded in the same light as membership of other great professions.

Let me be falsely charged, I would like to add that I have myself been delayed six years in my studies owing to military service, but am now preparing for the Special Final; the most satisfactory way, I suggest, for anyone similarly placed who wishes to earn the title of Architect.

Harrow Weald

HERBERT C. FIELD

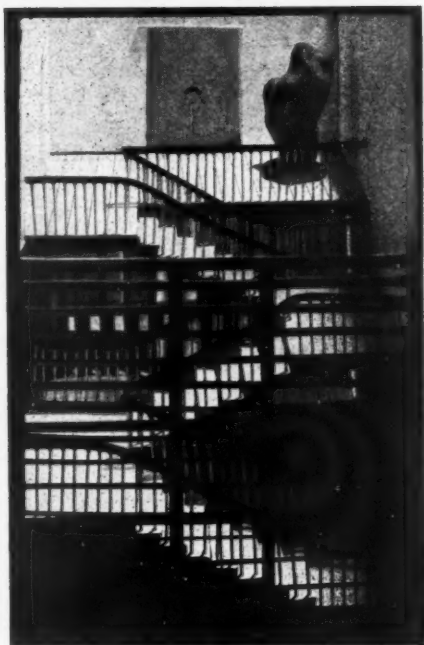
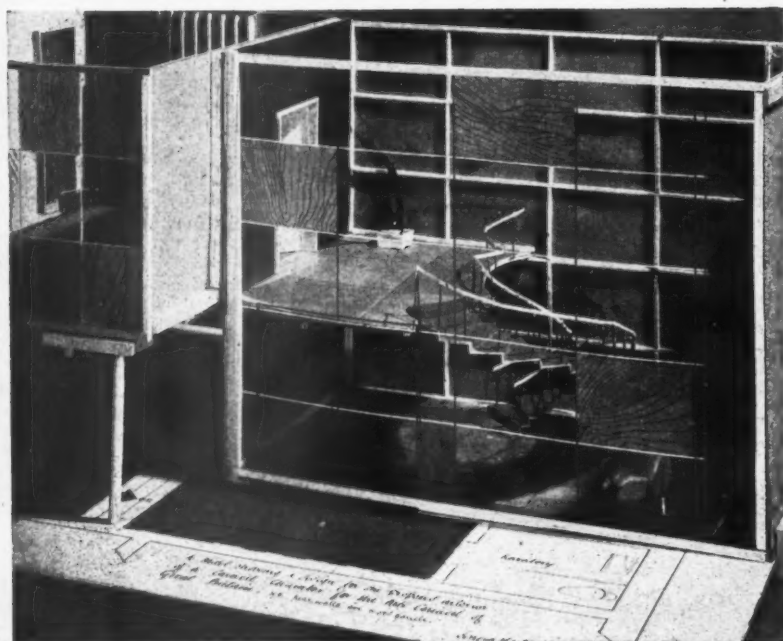
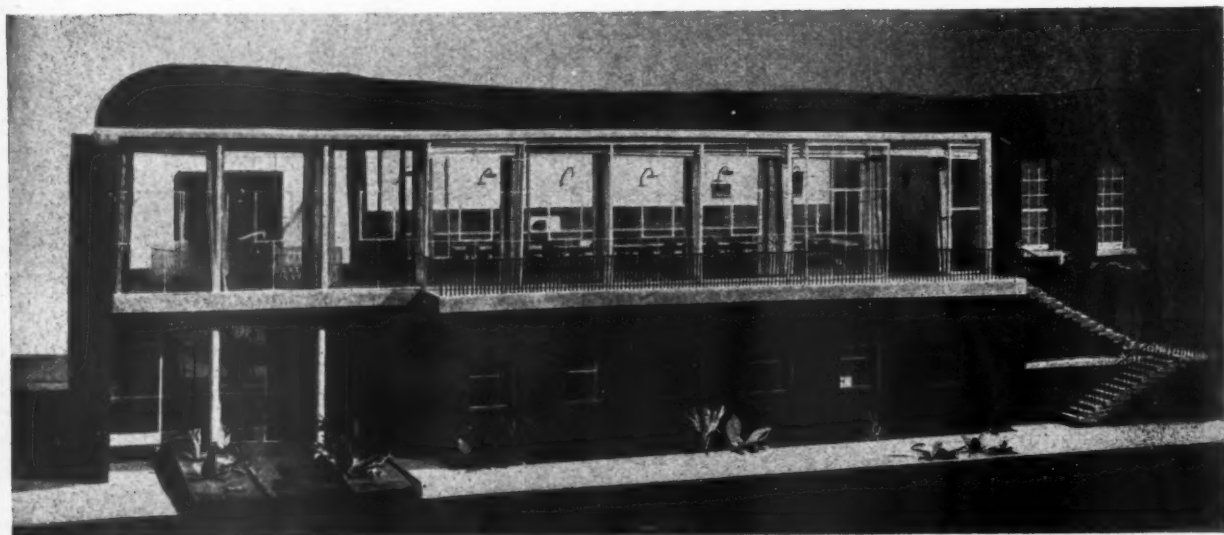
### Double Glazed Windows and Heat Insulation

SIR,—Mr. Dannenbaum raises an interesting query when he asks why double glazing is not more often used and why so little has been said about heat losses through windows. The answer could probably be better given by some member of the architectural profession, but your correspondent will be glad to know that recently there has been a considerable increase in the interest shown in this subject, both for factories and private dwellings, by architects and Government departments.

There is no doubt as to the benefits to be gained by double glazing and there are some interesting and informative figures given on the subject in Chapter 4 of *Post-War Building Studies No. 19*, published for the

\*Guide to Official Publications on Building. With a foreword by Professor J. D. Bernal, F.R.S. By Colin Penn, A.R.I.B.A. (Published for the RIBA by the Architectural Press, 6s.)

## A. A. STUDENTS' MODELS



An exhibition of models made by 3rd year students at the AA was held recently at the Building Centre, London. Three alternative problems were set, a Banqueting Hall for the British Council, a Council Room for the Arts Council and a Meeting and Committee Room for the DIA. The models were not specially prepared for the exhibition, but formed part of the normal 3rd year work in design and decoration, the latter subject being considered inseparable from a study of architecture. The illustrations show, top, a Banqueting Hall for the British Council by A. H. Lewis, and below, staircase to a Council Room for the Arts Council; left, by D. C. Stephen, and right, by H. S. Scorer.

Ministry of Works by H.M. Stationery Office. It is, of course, accepted that the heat loss through windows is reduced by approximately one half if double glazing is resorted to, and the publication referred to above relates this scientific fact to the actual cost of heat lost in normal pre-war dwellings and the capital expenditure which is justified to obtain the saving brought about by double glazing.

The suggestion in Mr. Dannenbaum's letter that the capital cost of double glazing could be paid in seven years by the fuel saved

would appear to be optimistic, but the additional benefits of sound insulation and general comfort, which cannot be assessed in £ s. d., must also be taken into account.

The generally accepted method of double glazing used in this country, and particularly in Scandinavia, consists of double windows, that is, two separate window frames each with glazing, and capable of being opened for the purpose of cleaning, but this is somewhat cumbersome and a long way behind the hermetically sealed unit which is produced in Canada and America, where, of

course, the climatic conditions are much more severe. The latter, however, are very costly and we are now carrying out development work and are hoping to produce a satisfactory hermetically sealed unit for popular use.

Meanwhile, there is still one great obstacle to double glazing, although only a temporary one, and that is the continued acute shortage of glass.

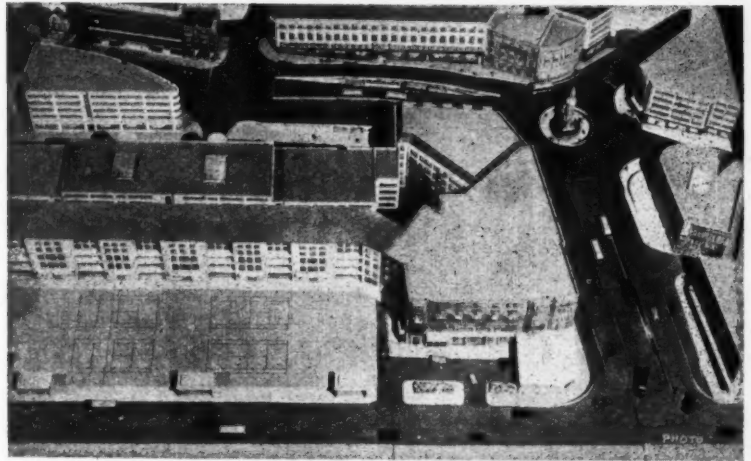
R. F. LEATHER,  
Sales Development Manager,  
St. Helens Pilkington Brothers, Limited

# PHYSICAL PLANNING SUPPLEMENT

## HASTINGS

### SUGGESTED REDEVELOPMENT SCHEME FOR THE CENTRE

The particular difficulties of the high cliffs behind the sea front at Hastings resulted in a lack of suitable land close to the sea for the many facilities which a seaside resort requires. This was overcome by constructing promenades, car parks, sea water baths, etc., on different levels. A similar treatment has now been put forward by Sidney Little, the Borough Engineer, for the centre of the principal shopping area, to overcome the problems of accommodation caused by the high land all around. This scheme is reviewed below and is an interesting solution of a difficult problem. Right, a general view of the model of the proposals.



The whole of the local bus services of the Borough and a large proportion of the country services pass the Memorial, which is the centre of the principal shopping area of the Borough, and is the focal point of six main traffic roads, four of which are heavily trafficked. All these roads fall at fairly steep gradients to the Memorial centre. The very hilly surroundings and the sea effectively rule out any easing of the traffic problems by the usual methods of ring road diversions. The problems to be solved are:—

- (1) provision for the ever-increasing vehicular traffic which already causes serious congestion.
- (2) provision for pedestrians who, in the summer, have considerable difficulty in crossing the roads by the pedestrian crossings and when they do, cause traffic blocks,
- (3) provision of a country bus station.
- (4) provision of covered bus shelters in the centre without adding to the already serious pedestrian traffic congestion.

Briefly, the scheme proposed consists of:—

- (1) a high level traffic roundabout,
- (2) a low level area below the traffic roundabout for pedestrians,
- (3) low level bus shelters for loading and unloading local buses,
- (4) an underground bus station adjoining the sea front for country buses.

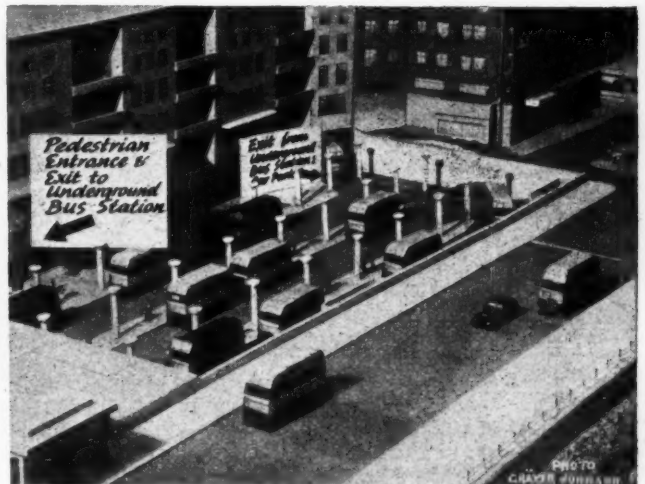
A description of one of the main roads having a low level bus shelter is typical of the arrangement. Considering the carriageway, which it will be remembered at present falls to the Memorial; at a suitable point (depending on the levels) the centre half of the carriageway, which would be used by buses only, would be given increased fall to a low level bus shelter. It would then run level for the length of this shelter, finally rising to the elevated roundabout. The two outer margins, to be used by ordinary vehicular traffic, instead of falling as at present, would run level or rise slightly, thus creating a difference in level between the outer margins carrying ordinary traffic and the central half used by buses in order to give depth for the provision of a bus shelter. The outer margins carrying ordinary traffic would form the roof of this bus shelter. The footways would follow roughly existing levels. Access between opposite bus shelters would be provided by pedestrian crossings with automatic signal control.

The underground bus station for country buses is situated between the sea front and Robertson Street, the principal shopping street. Buses would enter at the sea front and emerge at the high level roundabout. Pedestrians from these buses would emerge in the centre of Robertson Street at a point immediately opposite Havelock Road, which gives direct access to the entrance to Hastings Station, some 250 yards distant. The scheme would secure:—

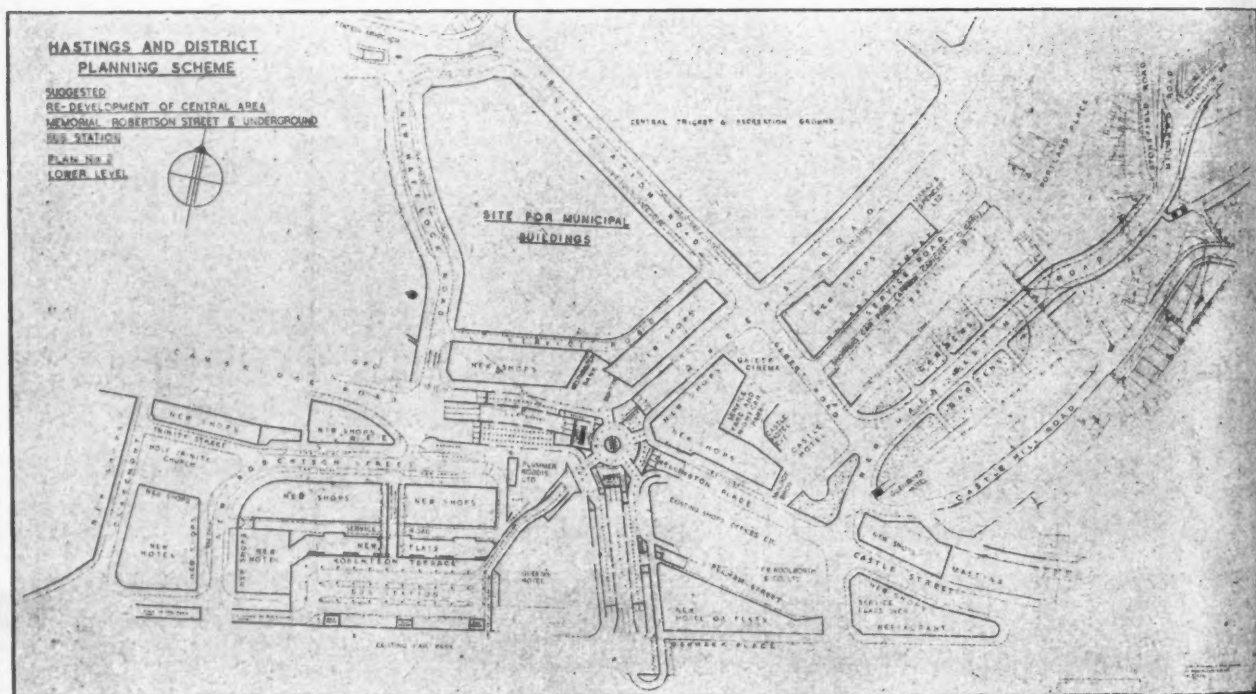
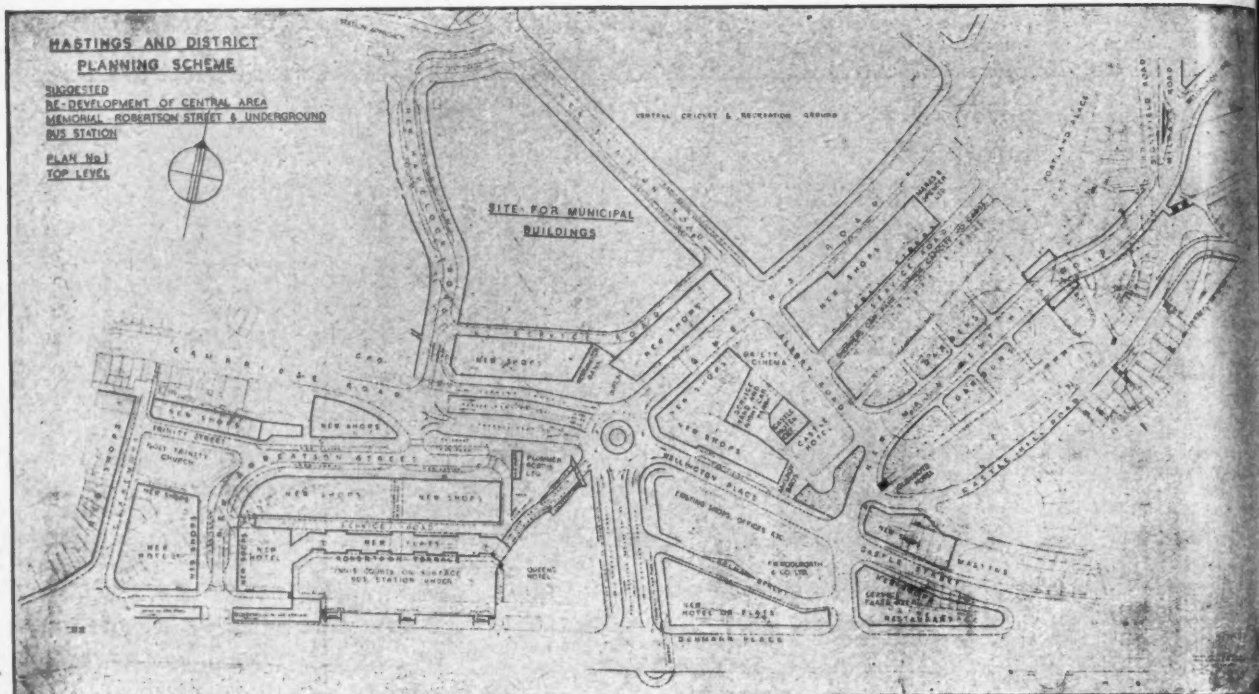
- (1) The necessary facilities for vehicular traffic at the Memorial;



Above, a close-up view of the model of the suggested redevelopment of central Hastings, showing the low-level bus stop shelters. Right, the underground Country Bus Station with the roof removed.







(2) elasticity of bus routes to increase, as desired, services to Hastings Station;

(3) ample parking facilities in close proximity to shopping streets carrying bus traffic;

(4) pedestrian access to all parts of the shopping area and the sea front, free from interference by vehicular traffic;

(5) covered bus shelters affording complete weather protection adjoining shopping premises and yet not impeding shoppers and pedestrians;

(6) covered country bus station, adjoining sea front and shopping centre, and in close proximity to main railway station, with covered communications with centre of principal shopping street.

The conception of the scheme follows a somewhat similar technique to that used on the reconstruction of the Hastings

Above, the suggested Redevelopment Plan at the top level for the centre of the shopping area at Hastings. Below, the plan at the lower level. The high land around this area has suggested the use of two levels to secure the required accommodation.

Front, which for over 1½ miles consists of four underground car parks, sea water baths, covered promenades, sun lounges and three-tier promenades. In the present instance, the hilly character of the locality, which prevents a solution on the usual lines, has been used to secure a solution by unorthodox means. In the case of the sea front it was the high cliffs behind that made increased accommodation only possible by working on two or more levels, and at the Memorial it is the high land all round that has dictated the methods proposed.





## JETS ON EXHIBITION

This exhibition, designed for the Ministry of Supply, was recently held at Charing Cross Underground Station. Its purpose was to ex-

plain to the public the general principle of the gas turbine engine and to show how research and development in this field is organised in this country.

The main feature seen from the booking hall was an actual impeller, the "heart" of the gas turbine, slowly revolving behind a perspex guard. This was set into a symbolised and highly coloured section through a jet engine, with its jet suggested by a gap. Through this gap parts of the exhibition could be seen.

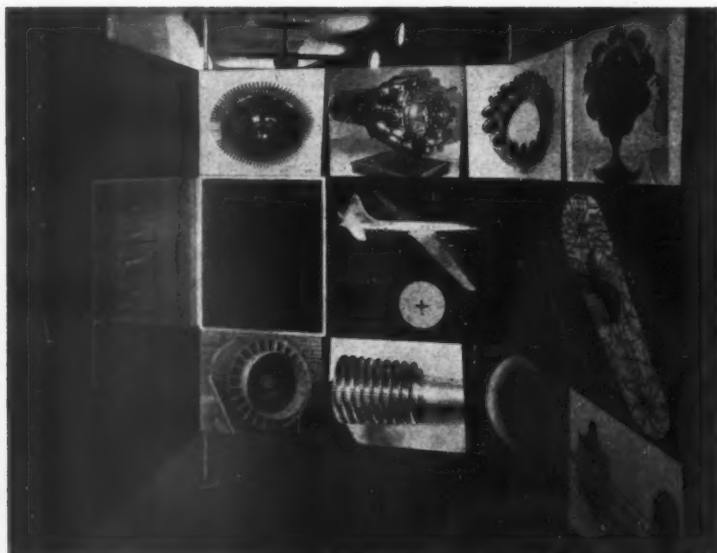
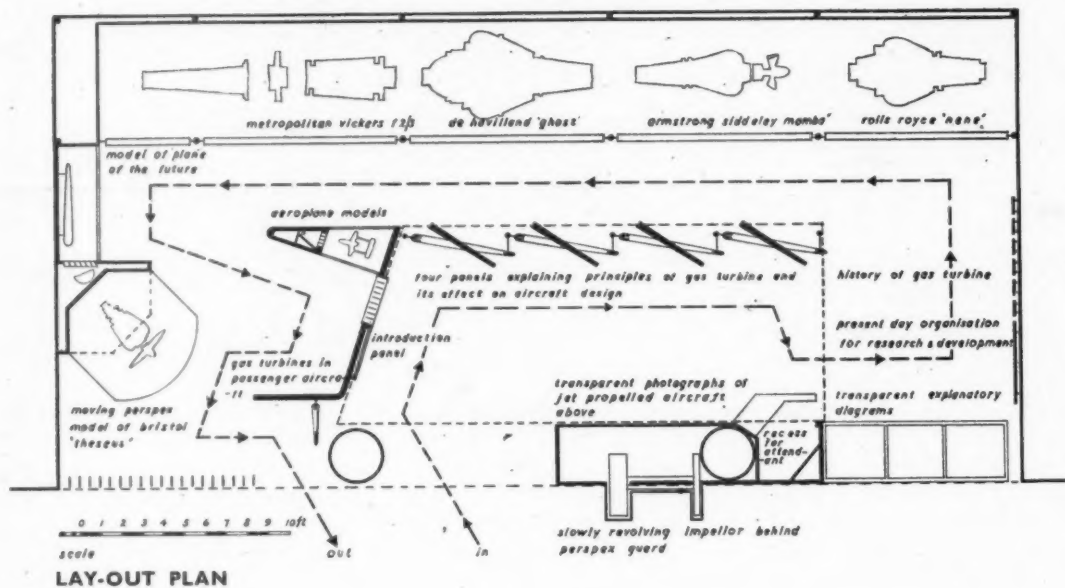
In spite of the many exhibits and screens, an illusion of spaciousness was produced by arranging them in such a way that a variety of cross vistas through glass, louvres, gaps, and so on, were possible from most points.

Use was made of sound, and the unfamiliar whine of a jet engine could be heard intermittently. The exhibition was designed by Peter Moro and Robin Day in collaboration with the Central Office of Information.

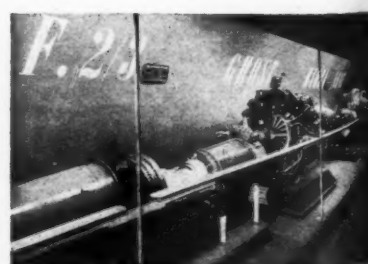
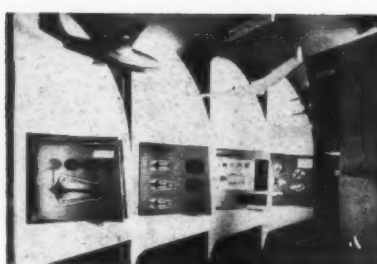


Poster designed by Robin Day.

DESIGNED BY  
PETER MORO  
AND ROBIN DAY



Left, a montage on the back of the introduction screen deals with gas turbines for passenger aircraft. Below, left, the rear of the structure which houses the impellor and its motor carries transparent photographs of jet-propelled aircraft. Centre, explanatory panels in wing-shaped supports. Right, the main exhibits were actual jet engines which were arranged along the entire length of the exhibition space.



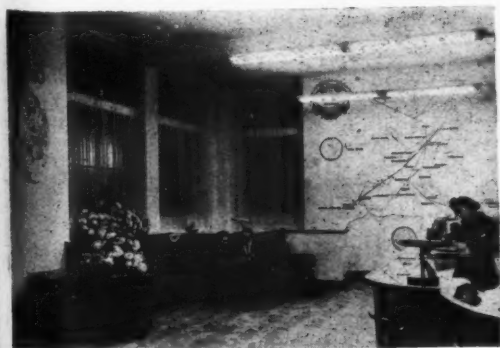
# J E T E X H I B I T I O N



# INFORMATION OFFICE

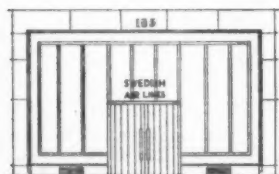
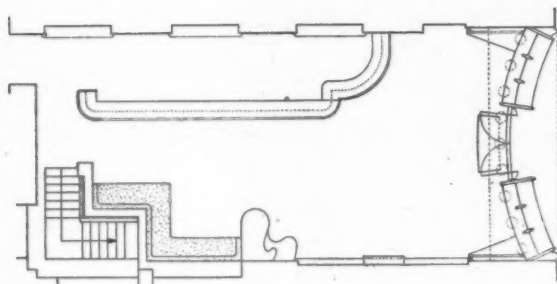
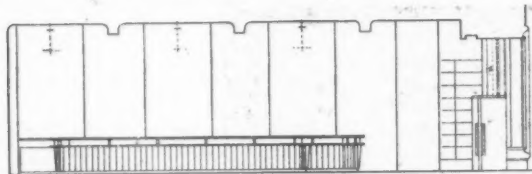
FOR SWEDISH AIR LINES

DESIGNED BY GERALD LACOSTE

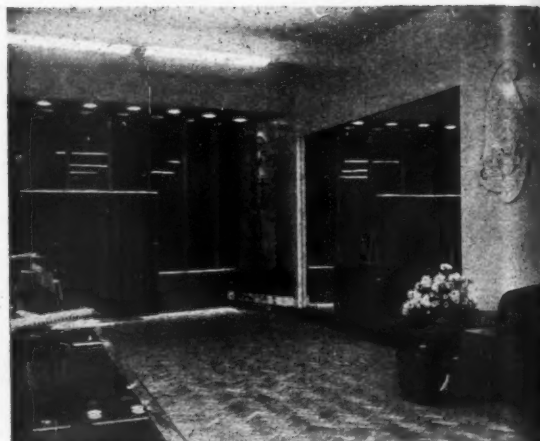


The designer of this information office will be envied by many architects who have found their most ingenious ideas defeated by the current timber shortage. The whole of the front screen and interior fittings were fabricated in Sweden, where there were stocks of teak available. The plate glass was also obtained in Sweden. The aim of the architect was to provide, not a shop front in which goods are displayed, but a glazed screen which will give a feeling of contact between the public in the street

and the services and functions of the interior, the latter being designed to attract the passer-by. An essential consideration was the need for units of readily transportable size. The four wall plaques in the interior were designed and carried out by Kenneth Dod and symbolize movement by Land, Sea, Air and in Time. The wall map is by Ralph Lavers. The front screen and the counter fittings were both manufactured by the Nordiska Kompaniet, the Swedish manufacturers in Stockholm.



*Top, longitudinal section showing the counter; centre, plan; left, elevation of, and bottom, right, photograph of, entrance screen.*



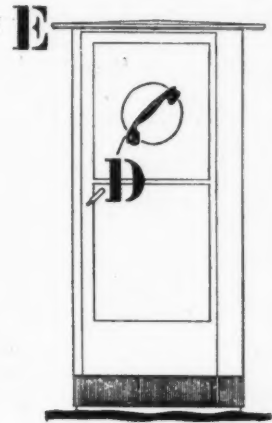
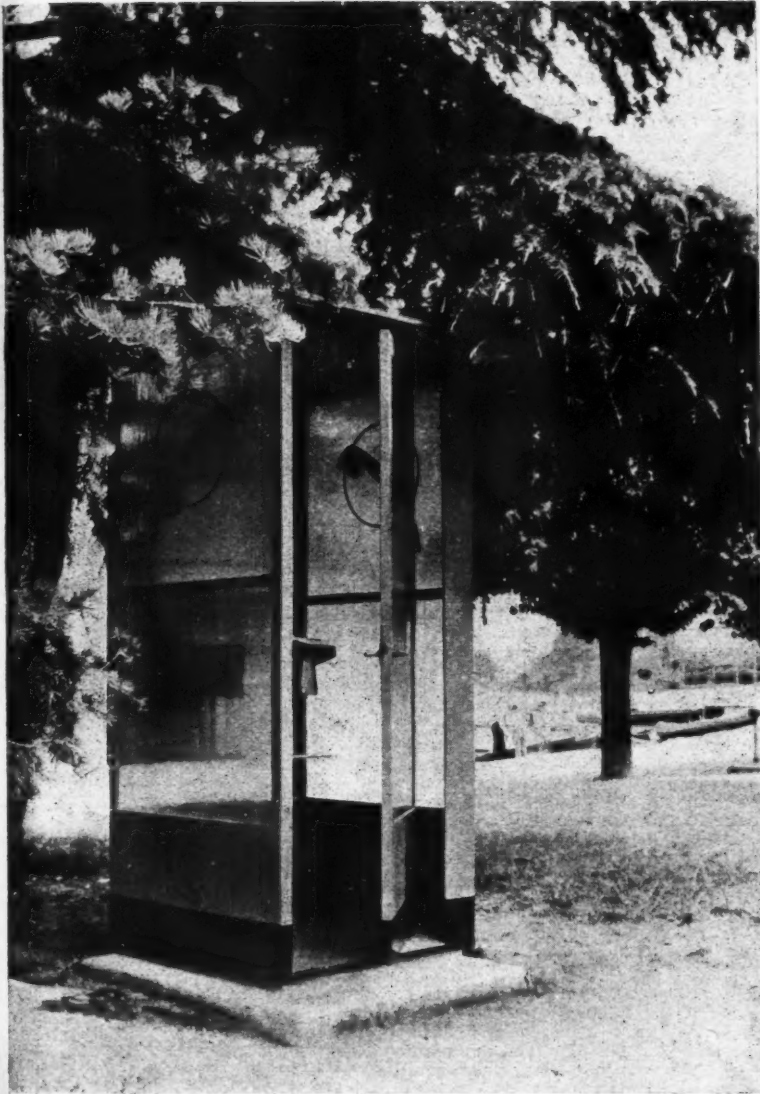
*A view of the interior looking towards Regent Street.*



*1/8th full size, details: below, plan through part of door, and above, plan of mullion, both in teak.*







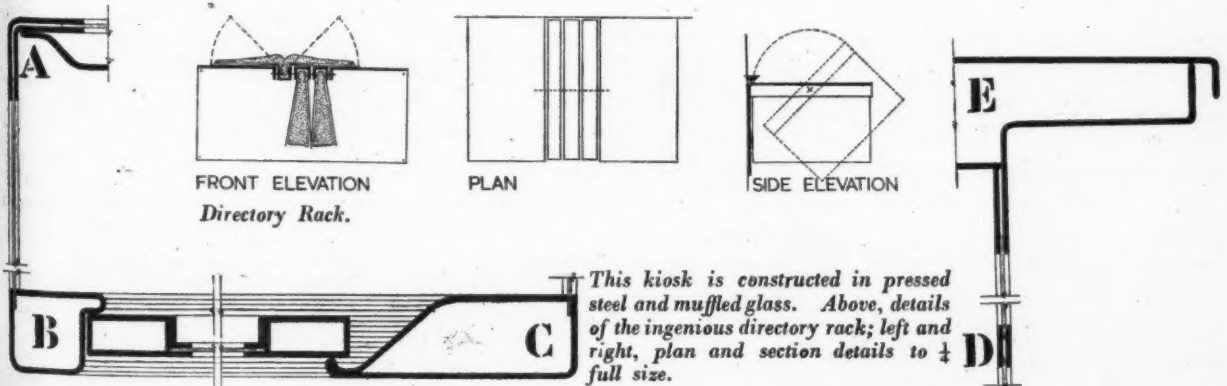
ELEVATION



PLAN

# TELEPHONE KIOSK

CANTON OF LUGANO, SWITZERLAND



This kiosk is constructed in pressed steel and muffled glass. Above, details of the ingenious directory rack; left and right, plan and section details to  $\frac{1}{4}$  full size.

*The Government has now produced a programme for Housing for this year. Two hundred and forty thousand permanent houses are to be built and this will involve a programme for materials, laid down for the first time. Mr. Bowen discusses in this article Command Paper, Cmd. 7021, published by HMSO at 2d., which outlines this programme.*

## HOUSING PROGRAMME

for 1947

[by Ian Bowen]

At last an official Housing Programme has been published. This publication has so often been urged by the Press that to welcome it is less a courtesy than a duty. The Government has at length given firm estimates of the houses to be finished, and the labour and materials needed, in 1947. This, then, is indeed a day for thanksgiving.

There are 27 paragraphs in this twopenny White Paper, all of them informative, some of them slightly repetitive. The subjects dealt with are four-fold: first, the programme for 1947 (240,000 permanent houses to be finished in that year); secondly, a warning on the special difficulties that may stand in the way of such a large programme (shortage of softwood, of coal and other fuel, and of transport being given special mention); thirdly, the labour needed and likely to be available is discussed; and, finally, the materials programme is laid down in detail for the first time.

### PROGRAMME NOT TARGET

The great merits of the programme are its clarity, the frankness with which a warning is given on the most dangerous points, and the caution with which the detailed plans are framed in a subjunctive tense ("the division of the 240,000 houses *might* be" as then follows, etc.). Instead of a target figure being announced without justification, the programme is advanced with a fairly clear

indication of the nature of the calculations on which it is based. This method of taking the public a little more behind the scenes, though it may not satisfy some readers, in the long run is likely to be more rewarding than a more dogmatic statement of policy. It is presumably this difference of approach that Mr. Bevan seeks to underline by his distinction between a "programme" and a "target." While admitting the merits of his approach, one still may regret that it has become so deeply bound up with a rather verbal point.

### LABOUR AND MATERIALS PROGRAMME

The labour and materials programmes demand detailed study on their own account. But a passing mention may be given to two points: first, the rate of increase in the total building operatives employed in 1947 is planned to slow down very considerably as compared with the previous year. From December, 1945, till a year later the increase amounted to 261,000; in the following year the increase will only amount to some 57,000.

Secondly, the materials programme is calculated on a rather less clear basis than the housing programme itself. The materials are, of course, needed for the whole building programme, which has not been disclosed. A special footnote to the table giving estimated materials production for 1947 says that they are based on the assumption of "minimum essential fuel supplies," that for some industries (such as cement) the basis is "the actual output in October, 1946," while for others (not specified) "some allowance has been made for expansion in output from new plant already placed or in hand." No doubt the materials' programme figures are the best that can be given, but whether the fundamental basis is requirements or expectations is not perfectly clear.

### THE PROGRAMME OF HOUSES BEGUN AND FINISHED

The programme of all permanent houses to be begun and finished in 1947 may be compared with actual achievement in 1946. The cumulative totals for four dates are summarised in the following table, and shown graphically on the right:—

Permanent Houses: Achievement in 1946 and Programme for 1947. Great Britain. (in 000's.)			
By the end of	Houses Begun	Houses Finished	
1946, June ..	133	15	
September ..	198	32	
December ..	261	58	
PROGRAMME:—			
1947, December ..	498	298	

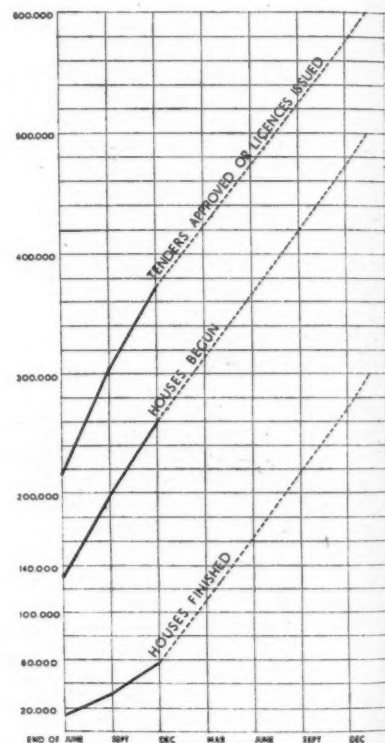
There were thus nearly 60,000 houses finished in Great Britain at the end of 1946. The programme indicates a total of nearly 300,000 finished by the end of 1947; and if these houses were to be completed at an even rate each month, the line would advance as indicated on the graph, involving a steady 20,500 average of completions per month.

The bad weather (some seasonal allowance should surely have been made in the programme) has already made certain the need almost to wipe out two months of the year. Thus the houses completed at the end of March, 1947, is more likely to reach a total of 80,000 houses. This will mean a very much steeper curve of completions on the graph thereafter.

The graph shows that the number of tenders approved (or licences issued) and houses begun are expected to reach 600,000 and 500,000 respectively by the end of 1947.

These totals, large though they are, only necessitate a continuance approximately of the existing monthly rates of approving tenders and of beginning work. In strong contrast with this, it is evidently hoped that the average rate of completions may be speeded up, and the average time between beginning and finishing shortened to less than 12 months.

The programme laid down is clearly high rather than low. To set a target (save the mark!) a little too high is, however, obviously an error in the right direction. It will indeed be surprising if 240,000 houses are finished in 1947, but the figure at least sets limits to the unbridled efforts to pour more and more houses into an overloaded programme.



Graph showing (black lines) tenders approved (or licences issued), houses begun and houses finished in Great Britain at the end of 1946 and (dotted lines) the programme for 1947.

### SITES PREPARED

The housing programme is rather obscure on the subject of development of sites. The monthly Digest of Statistics normally shows progress in terms of:—

- Sites acquired,
- Sites developed,
- Sites being developed at end of period.

None of these figures enter the programme; instead, a new and entirely unidentifiable category appears: "Sites prepared or in preparation." Progress and programme for this important item cannot be compared.

One last, oft-repeated, criticism: need England and Wales and Scotland jointly be described as the United Kingdom? It is both statistically misleading and unkind to Ulster.

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- 26 SERVICES,  
EQUIPMENT Miscellaneous
- 27 FURNITURE  
FITTINGS
- 28 MISCELLANEOUS

## TECHNICAL SECTION

IN his lecture at the RIBA on technical investigations in Germany, Mr. Hartland Thomas said:—"The high-light in German steelwork, of course, as we knew before we went to Germany, is the German welding practice." This applies both to design and erection. In Information Centre 20.5 an example of a site-welded, steel-framed building in USA is referred to where, apart from its technical advantages, site welding was competitive with the traditional method of erection.

What is the position in this country? During the war, great progress was made in welding; its application was extended to many fields, *e.g.*, shipbuilding, tanks, etc., and there are now many more workmen trained in welding than before the war. Yet, as far as structural steelwork is concerned, the situation is by no means satisfactory. The majority of structures are still riveted and bolted, and it requires a special effort on the part of designers to get a welded structure adopted. Experience shows that quotations for site-welded structures are substantially higher than for structures bolted on the site. Even if a client, convinced of the advantages of an all-welded job and of its far superior appearance, were prepared to spend more than on a traditional structure, he is prevented by the limitations of his licence, which allows no scope for any "luxury." As a compromise, the best he may obtain is a structure welded in the shop and bolted on the site.

It is not easy to understand the reasons for this state of affairs. The examples of Germany and of USA are evidence of the fact that site welding *can* be competitive; if it is not so in this country, something must be wrong with the industry. Architects and engineers are powerless for there is no really "free competition" between contractors in structural steel.

But if the immense technical advantages of all-welded steel-framed buildings were fully realized, structures of the older type would not be found acceptable any longer. All possible steps should be taken to make the building industry benefit from the lessons in welding practice learned during the war.



*The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.*

## INFORMATION CENTRE

### 2.2 planning: general

#### PLANNING AND PUBLIC RELATIONS

*Town Planning and Public Relations.* M. Lock. (Town and Country Planning, Vol. XIV, No. 55, Autumn 1946, pp. 110-114.)

Paper stressing importance of enlisting public participation in planning.

Surveys, exhibitions, press, radio and education in planning consciousness as public relation factors. Continuity between making of plan and its implementation. Planning offices to be organized as clearing houses for information from all local authority departments. Need for annual publications of planning achievements on lines of Medical Officer of Health's reports. Advantages of forming Citizen Advisory Groups under auspices of Mayor. Importance of appointing right type of planning officer with authority and knowledge to take initiative in development and to overcome legal and financial difficulties.

### 4.3 planning: urban and rural

#### NEW TOWNS

*New Towns.* Sir Henry Bunbury. (Current Affairs, No. 18, December 14, 1946, 7d.)

Pamphlet explaining background and nature of new towns proposals under following headings. Why new towns? What is a new town to be like? Problems and snags. Clearly written guide for use of lay discussion groups. Illustrations. Short booklet.

### 7.2 practice

#### GUIDE TO OFFICIAL PUBLICATIONS

*A Guide to Official Publications on Building.* Colin Penn, A.R.I.B.A. (Published for the RIBA by the Architectural Press, 6s.)

Excellent reference to official publications. Part one lists subjects and part two publications with brief comments on content and purpose. 120 pages.

As Professor Bernal says in his introduction to this book, it is becoming increasingly important to find means of bringing the right kind of published information to the right people and to avoid waste of effort

in reading a mass of irrelevant material. This book will prove extremely useful in assisting architects, builders and technicians to find their way among the mass of official publications on building. The range of information covered is very wide and the author's brief comments are very much to the point.

The book is divided into two parts. First, a subject index in alphabetical order with code references to publications. Second, the publications themselves with brief and useful notes on contents and purpose.

The only drawback to books of this kind is that they inevitably became somewhat out of date even before being published. If some system of supplements could be included in the weekly technical press it would make the book itself of much more lasting value. If such supplementation could include up-to-the minute lists of Government Circulars it would be a great time and worry saver.

### 17.3 construction: general

#### STEEL BUILDING CODES

*Steel Building Codes Changes Analyzed.* T. R. Higgins. (Engineering News-Record, U.S.A., October 17, 1946, pp. 529-533.)

Recent revisions of the American Institute of Steel Construction specification for structural steel buildings.

The last extensive revision of this specification occurred in 1936. In the revision of February, 1946, recognition was given to main compression members with slenderness ratios between 120 and 200, to beams with span-to-width ratios over 40, to rivets and bolts in direct tension and to the theory of limit design for continuous beams.

The revisions are based on recent research in USA and also on experimental work reported by Professor J. F. Baker in this country.

It is of interest to compare the American Code with the Draft British Code (No. 2751:3.10.46). According to the British Code, struts forming part of the main structure of a building may be used up to a slenderness ratio of 180 (as against 150 specified in B.S. 449/1937). The limit of the span-to-width ratio of beams in B.S. 449 was 50. The new codes in both countries drop this ratio as the characteristic figure, since it is realized that of two beams with equal flanges, the shallower beam will be more stable because of the assistance given to the top flange by the restraining effect of the tension in the bottom flanges. The new formula for this case is different in each of the two codes; both have the effect that an arbitrary upper limit is removed.

Regarding permissible tensile stresses in rivets, the American Code goes much further than the British, since it allows the same stress as those permitted in the connected parts. The American specification is justified by elaborate tests on rivets in pure tension which have proved that the initial internal tension due to shrinkage and the tensile stresses resulting from externally applied loads are not additive.

An important innovation of the American Code, not contained in the British, is an increase of the permissible bending stress at the supports of continuous beams by up to 20 per cent., if the stresses are due to vertical loads only. This is the first step towards what is called in America "limit design," i.e., design based on ultimate loads. Professor J. F. Baker's tests in this country have confirmed the reliability of this method of design.

Another interesting revision in the American specification permits the substitution of cover plates perforated with access holes according to certain fixed proportions for lacing bars in built up members. The net area of such perforated cover plates may be included with the area of connected

components in proportioning the member to resist axial stresses.

### 19.4 construction: details

#### REINFORCED PAVEMENT

*Distributed Reinforcement in Pavement Found Advantageous in Rhode Island.* Lee V. Spencer. (Engineering News-Record [USA], December 12, 1946, pp. 806-7.)

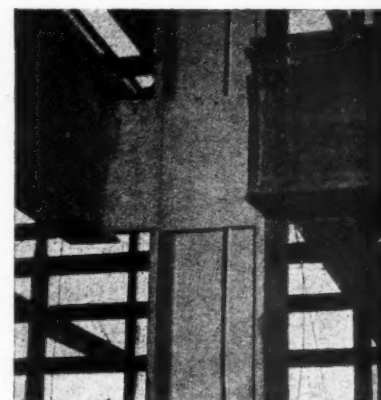
Survey of the number of cracks in concrete pavements indicate favourable effect of distributed reinforcement.

The major problem involved in the design of concrete pavements is that of ensuring satisfactory control of cracking. Any crack in a plain concrete pavement rapidly becomes a permanent open joint. By the inclusion of reinforcement thoroughly bonded to the concrete any incipient cracks will be held tightly in contact and the slab will remain structurally sound. The annual observations in Rhode Island showed that the number of transverse cracks per mile of slab in reinforced sections was somewhat less than one-third of the number developed in the plain concrete sections. Where concrete pavements have been laid directly over existing water-bound macadam as a base, the entire length has a very large number of cracks in comparison with sections laid on natural subgrade.

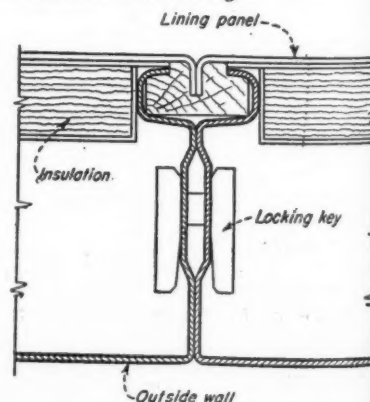
### 20.5 construction: complete structures

#### SITE WELDED STRUCTURE

*Welded frame for a 16-storey building.* A. E. Poole and L. F. Booth. (Engineering News-Record, [USA] October 31, 1946, pp. 577-9.)



Site welded eccentric floor-beam connections to columns. See No. 20.5.



H shaped locking keys used to join deformed aluminium panels. See No. 20.6.



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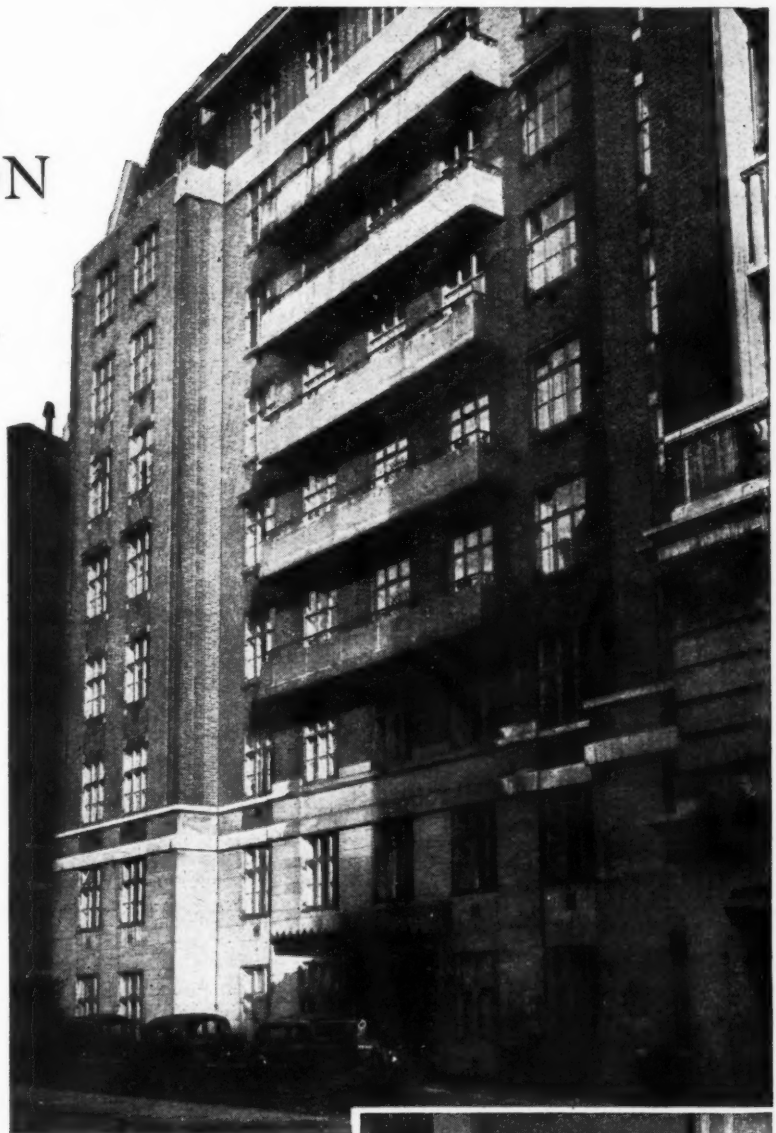
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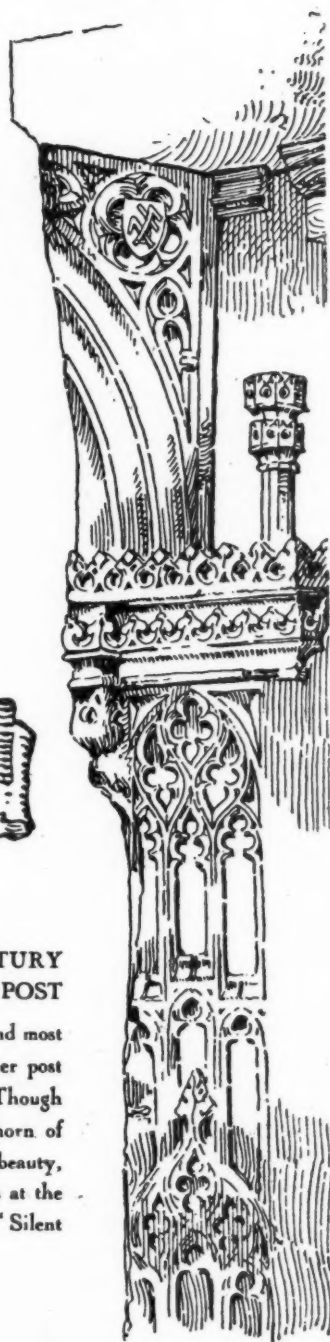


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About 3,000 tons of structural steel connected by 21,000 ft. of filler welds in the frame of a 16-storey hospital building at Hartford, Conn. Site welding completed in 15 weeks by crew of 9 men.

The article describes the advantages of site welding as against riveting in multi-storey framed buildings. Typical connections between beams and columns are shown.

## 20.6 construction: complete structures HOUSING

*Aluminium Prefab House Exhibited.* (Engineering News-Record, [USA] October 10, 1946, p. 479.)

Two-bedroom bungalow constructed of aluminium die-formed panels, fastened by means of special H-shaped keys.

## 20.7 construction: complete structures PRECAST CONCRETE PROMENADE

*Atlantic City Boardwalk Rebuilt with Precast Concrete Piles and Joists.* (Engineering News-Record [USA], December 12, 1946, pp. 799-800.)

A 2,800-ft. section of the Atlantic City boardwalk destroyed by the 1944 hurricane, replaced by concrete substructure. Precast octagonal piles with cast *in-situ* caps carry 18-ft. long precast joists to which wood nailing strips are fastened for the deck.

## 20.8 construction: complete structures BOX FRAME HOUSE

*Experimental Box-frame House at Codicote, Herts.* Designed by F. R. S. Yorke, E. Rosenberg, and C. S. Mardall. Consulting Engineer: Ove Arup. (The Architects' Journal, December 5, 1946, pp. 415-8.) Experimental application of box-frame construction to a single house. (No. 1710: 14.12.44, and A.J.: 10.5.45 and 14.6.45.)

## 20.9 construction: complete structures R.C. RAILWAY BRIDGE

*Reconstruction of Nogent Viaduct, France.* (The Engineer, December 6, 1946, p. 514.)

Short description of a double track railway bridge in reinforced concrete consisting of three arches of 263-, 230- and 223-ft. spans, replacing old masonry viaduct of smaller spans. Both arches and decking of cellular cross section.

## 22.1 sound insulation and acoustics SOUND ABSORPTION PANELS

*Absorption of Sound by Coated Porous Rubber Wall-Covering Layers.* C. W. Kosten. (J. Acoustical Soc. America, October, 1946, p. 457.)

Porous rubber with non-porous coatings are effective sound absorbers; summary of extensive studies. Important paper. Illustrated by graphs.

The search for sound absorbers which can be washed and painted with impunity led some years ago to the study of absorption by vibrating panels, and more recently, as reported now, to the study of porous rubber coatings.

In general the rubber used was of the Dunlopillo type, with communicating cells, having the surface sealed (in the experiments the seal was effected by cellophane and a rubber-paint). Thickness varied from about  $\frac{1}{4}$  in. to 1 in. In some cases the rubber was perforated by punching out about 40 per cent. of the material, and in other cases the materials were fixed  $\frac{1}{8}$  in. or so from the wall, with a metal lattice

intervening. These two modifications tended to reduce a tendency to selectivity in the material, and their combination produced an absorbent more or less uniformly effective over a very wide range. Absorption coefficients of 60 to 80 per cent. or more were recorded.

Such materials as these obviously may have a significant place in buildings such as hospitals where sanitation is of the greatest importance.

## 23.4 heating and ventilation DISTRICT HEATING

*Individual and District Heating Systems: Cost, Technique and Planning.* D. V. H. Smith. (Junior Institution of Municipal and County Engineers, November 5, 1946.)

Considerable discussion of costs of heating with details of make-up of such costs. Author claims District Heating can be economical. Interesting contributions in discussion show how opinions on numerous cost items vary.

## 23.5 heating and ventilation UNIT HEATERS

*Characteristics of Modern Unit Heaters.* Albert L. Hale. (Junior Institution of Heating and Ventilating Engineers, September, October, 1946.)

Detailed paper on design of unit heaters. Contains section on efficiency of temperature distribution from different types of heaters related to shape of rooms in which they are situated. This aspect of value to architects.

## 23.6 heating and ventilation RADIANT HEATING

*Heating Contractors Association Discuss Radiant Heating.* Cyril Tasker. (Heating and Ventilating Engineer and Journal of Air Conditioning [USA], October, 1946.)

Report of discussion at trade conference. Outline of panel heating systems. Opinions on plastering and limitation of ceiling height. Useful general indication of US trends.

## 23.7 heating and ventilation GAS APPLIANCES

*Domestic Gas Appliances for Immediate Post-War Housing—Part 2. Detailed Requirements.* B.S. 1,250: Part 2: 1946. (British Standards Institution. 2s. 0d.)

Details of performance requirements, and sizes of some parts, gas ratings and other items. Methods of test. Valuable further insurance of performance quality. (See No. 2704: 29.8.46 for Part 1.)

## 25.7 water supply and sanitation WATER PURIFICATION

*Present Practice in Water Purification.* E. Field Reid. (Junior Engineering Society, University College, London, 1945-46.)

General survey of modern practice in water treatment processes. Purpose and operative principle of different methods in use clearly differentiated. Useful and informative summary in non-technical language. 6 illustrations.

## 25.8 water supply and sanitation WATER DIVINING

*Radio Prospection for Water and Minerals.* J. C. Maby. (Junior Institution of Sanitary

Engineers, October, 1946, Vol. XLV, p. 437.)

Attempt to provide phenomena of "dowsing" with scientific background, based on use of physical research methods. Much scientific jargon, but little light on recondite subject. 6 figures and short bibliography.

## 27.3 furniture and fittings FURNITURE: REPORT

*Furniture.* Board of Trade Working Party Report. (H.M. Stationery Office, 1946. 3s. 6d.)

Comprehensive survey of all aspects of Furniture Industry, including materials, design, minimum standards, selling methods, education and welfare. Several technical appendices. 209 pages. Two chapters on Design and Education of considerable interest to architects.

Although too long to be read in full by most architects this report contains two chapters of considerable importance to anyone concerned with the relation of buildings to furniture. Proposals for a drastic change in methods of education are significant and show a distinct similarity to some of the recent trends in architectural training. The important recommendations seem to be those for a Design Centre and for a National Training College. Among points of interest to architects is a note of the special importance of good design of buildings and fittings in the case of schools, as being a means of bringing about a gradual improvement in the general appreciation of good design.

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

## QUESTIONS AND ANSWERS

### 2884 SCHOOL EQUIPMENT

**Q** Can you furnish an explanation on the following points in connection with schools, which do not appear to be specifically mentioned in the published regulations?

(1) Are published scales for county school wash basins and W.C.s equally applicable to secondary schools?

(2) Am I right in assuming that pre-war coat hook spacings still apply, viz., 12-in. centres, single row, for boys and girls in secondary schools; 10-in. centres boys, 12-in. centres girls, single or double staggered rows in primary schools?

One further point: are there any published regulations giving size of land areas for surface irrigation for school sewage disposal plant?

**A** County schools and secondary schools are in the same category and, therefore, the same standards apply to both.

The spacing of coat hooks is 10-in. centres for boys and 12-in. centres for girls in secondary schools in single rows, and the same in primary schools in either double or staggered rows.

Regarding the size of land areas for surface irrigation for school sewage disposal, this would vary according to the nature of the soil and would be subject to the regulations laid down by the local authority in the area in which the building is being erected.



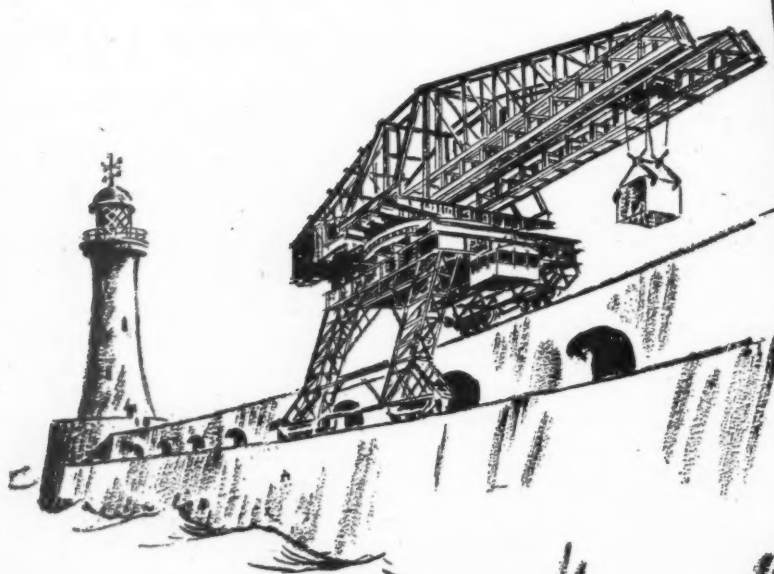
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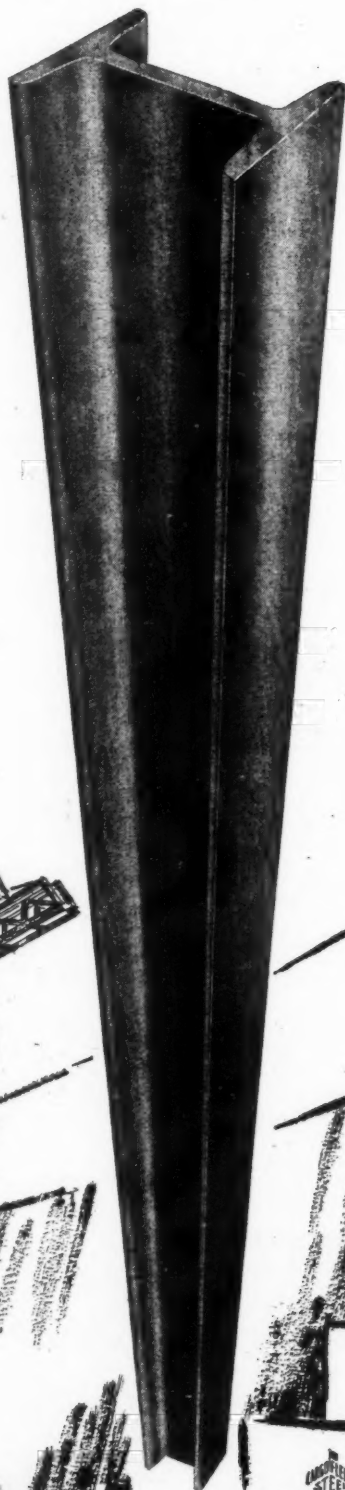


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*This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.*

## THE INDUSTRY

[by Philip Scholberg]

### FUEL SAVING

Almost every paragraph of current comment I have seen during the last fortnight has contained a bomb of one kind or another for Mr. Shinwell. Coal is fortunately one of these problems which this Journal has not got to solve, but if the fuel shortage has done anything it should have shown the value of proper insulation. I am not referring to the pipes which burst every time it gets a bit chilly, but to the vast quantities of heat which perpetually escape through the walls and roofs of houses and factories throughout the country. One firm of wallboard manufacturers has been illustrating vast piles of coal, and plugging the slogan, "70 per cent. of this coal will be wasted." I have no idea how this figure has been calculated, but I would guess it as not being very far out. It is, I think, quite reasonable to suggest that if factories had a thermal transmittance value (U) of 0.35 or so for roofs against the more usual 1.0 to 1.5 and if houses had the Burt Committee's U of 0.20 instead of the 4.34 of the ordinary cavity wall, there wouldn't be a coal shortage at all, and perhaps there might even be some to spare as payment for all the Triva furniture which architects now have to carry back from Sweden as personal luggage.

Factory insulation is obviously a matter for the manufacturer, and since it is comparatively simple to produce a heat balance sheet, I cannot understand why adequate insulation has not been standard practice for years, particularly on new jobs where there will also be a saving in the capital cost of the heating plant.

For domestic work the problem is not so easy, since clients, already demanding more than they can afford, resent any outlay which produces no visible improvements. Post-War Building Study No. 19 has a good deal to say on the subject and suggests reasonable amounts of extra expenditure as being justifiable. Taking more or less traditional construction as the standard, the figures are surprisingly high, 9d. a square foot for living room walls, 6d. for the rest of the house, is,

for the living room floor, 8d. for the roof, 2s. 6d. a square foot for double glazing living room windows and 1s. 6d. for the windows in the rest of the house. Even on the 1,000 foot super house these figures add up to quite a considerable sum, and even so they are based on a saving of only half the heating costs. Leaving Mr. Shinwell out of it altogether, it seems nonsensical for the Minister of Works to recommend a certain standard of heat insulation and then for Mr. Bevan to fix a price ceiling which prevents nearly all the recommendations from being carried out. When lack of insulation means less available coal, one can only suggest that money spent on insulation pure and simple should be allowable as an addendum to the £1,300, for even if the house costs more we shall presumably recover it on the fuel saving. At the same time we have Mr. Wilmot praising the makers of immersion heaters, fires and cookers for improving on their pre-war production figures, and quite forgetting that the power stations cannot carry the load even with coal in free supply. The only possible answer is probably some multilateral Bevan-Key-Cripps-Wilmot-Shinwell huddle, with perhaps the Minister of Transport in the background. Yet another plan, admittedly, but at least a National rather than a piecemeal one. Perhaps even workable.

### FIXING SERVICES

One of the major headaches in factory building is the installation of the many services. Ventilation trunking, sprinklers, heater units, conduit and pipework of all kinds is slung from the roof trusses by whatever method seems quickest on the job. Various frictional clips have been standardised to fit joist flanges, but these are not universally applicable, and the alternative is to make a bolt hole with a drill or an oxy-acetylene cutter, not a particularly simple job either way. I have just come across an American automatic welding gun which seems an adequate answer to the problem. Weighing about 5 lb., it will fix studs from  $\frac{1}{4}$  to  $\frac{1}{2}$  in. diameter, probably a wider range than is really necessary on most jobs. In practice the operative loads a flux coated stud into the chuck of the gun, presses it against the required spot on the steelwork and pulls the trigger. An automatic timer turns the current off after the appropriate number of seconds and the stud is fixed. Obviously the time cycle will require adjustment for different bolt diameters, but this should cause hardly any loss of time. Power for the welding and time cycle control is taken from any normal electric welding plant, and it is claimed that studs can be fixed at the rate of 100 an hour or better. This figure seems reasonable enough for work on the bench, or at floor level on the site, but

for overhead work so much of the total time is spent climbing up and down ladders that I should expect this figure to be reduced quite considerably; even so, this gun seems a considerable improvement over the methods in use here. Since the Ministry of Works is trying to sell the idea of portable power tools to the building industry, it might do worse than import a sample of this welder. There is probably no reason why it could not be made under licence in this country if all the loan has gone on tobacco. Nelson Sales Corporation, 2715, Toledo Avenue, Lorain, Ohio.

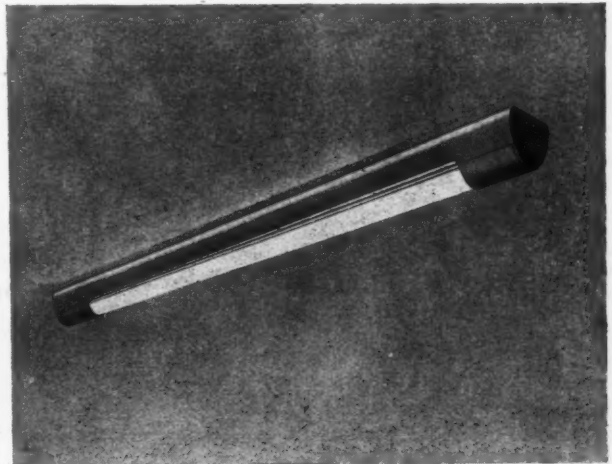
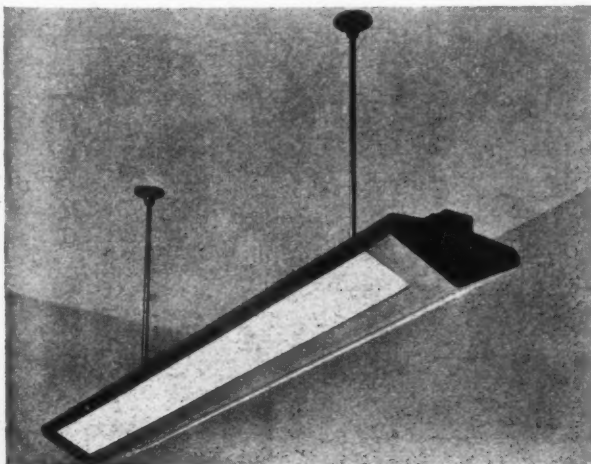
### FLUORESCENT LIGHT FITTINGS

Now that fluorescent tubes are coming on the market in slightly larger quantities, a few extra designs of fitting are being made over and above the usual industrial troughing. Troughton and Young have just announced a new range which includes about a dozen models which are marketed under the name of Tubalux. As one might expect, Mr. Read has produced a simple and straightforward set of designs with no unnecessary trimmings. In the years before the war the main object of a light fitting was to disguise the high intensity point source of light and provide a large low intensity area. With fluorescent tubes this low intensity area is already provided, and it only remains to design a pleasing mounting without any attempt at disguise. The standard five-foot tube allows no startling innovations, and, although American manufacturers are producing tubes down to a length of twelve inches or less as well as bents in quarter and half circles, the demand here is so large that there is little likelihood of anything but the 5-ft. length being produced for some time.

This Troughton and Young range, two of which are illustrated here, varies in price from £20 to £9 10s., all prices including starter gear. Type T8 is the lowest price, and type T2 is £17 17s, but since the latter has two sheets of diffusing glass, it is classed as a "decorative" fitting and consequently has to carry an extra 25 per cent. for purchase tax. Just how far a designer can go without getting into the "decorative" class nobody seems to know but I can think of many manufacturers whose unnecessary trimmings will certainly put them there, and it is a relief to think that a certain degree of austerity in design may meet with financial rewards, if only in a negative way. Perhaps Sir Stafford could arrange a "super decorative" class for the real horrors and give them a 50 per cent. tax.

Troughton and Young, 143, Knightsbridge, London, S.W.3.

T2 (bottom left) and T8 fluorescent lighting fittings, designed by A. Burgess Read



*The form printed below is to assist readers requiring up-to-date information on building products and services. If completed and posted to The Architects' Journal, 13, Queen Anne's Gate, S.W.1, the advertisers mentioned will be asked to supply information direct.*

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## Announcements

Mr. Noel D. Sheffield, F.R.I.B.A., F.S.I., has retired from his partnership in the firm of Messrs. Stock, Page & Stock, of 18, St. Thomas's Street, S.E.1, but will continue to act as consultant. He has also given up his appointment as surveyor to the Worshipful Company of Haberdashers, which partners in his late firm have held for over 100 years in unbroken succession. Mr. Terence C. Page, F.R.I.B.A., A.A.D.P., has been appointed surveyor to the company, so that the continuity will remain unbroken. Messrs. Stock, Page & Stock have taken into partnership Mr. James Maitland, A.R.I.B.A.

Mr. John Miller, A.I.A.A., has commenced practice at 6, Central Arcade, Saffron Walden, Essex, and will be glad to receive trade catalogues, etc.

Mr. E. T. Judge, M.A. (Cantab.), chief engineer, Messrs. Dorman, Long and Co. Ltd., has been appointed a director of the Company. Appointed a special director in 1944, he is 38, and joined the company as a trainee in 1930 after leaving Cambridge where he obtained a Mechanical Sciences Tripos with honours. Following experience in the Central Engineering Department he became Chief Technical Engineer to the Company in 1937. He is familiar with iron and steel plants in this country, in pre-war Europe and in the USA where before and during the war he studied the latest developments. Responsible for the Company's Central Engineering and Plant Developments departments, he will have the task of carrying through the design and construction of the Dorman Long £8 million project for a new steel-works and universal beam mill on the Lackenby site. The appointment as a special director of Mr. E. K. Scott is also announced. He is 42, and returned recently from a ten weeks' visit to China as a member of a British Government Goodwill trade

mission. He went to Manchuria in 1929 and represented the company in China from 1932 to 1938. Shortly before the war he undertook a mission to Turkey for the company. After service in France he went to Singapore as a Lt.-Colonel, REME, being transferred after the evacuation to General Wavell's staff in Java. On his way to Java he was captured by the Japs and held prisoner until the end of the war.

Mr. R. Fielding Dodd has taken into partnership Mr. Ailwyn Best, B.A.R.C.H. (LPL), A.R.I.B.A., and Mr. Kenneth Stevens, A.R.I.B.A., and the firm will in future be known as Messrs. R. Fielding Dodd, Best and Stevens. The practice will continue at 21, Turl Street, Oxford.

## Buildings Illustrated

Information Office for Swedish Air Lines. Architect, Gerald Lacoste (pp. 189-190). General contractors: Boyd Gibbins. Shop front and interior fittings: Nordiska Kompaniet, Stockholm. Shop fitting and fixing: Pollards. Light fittings: Troughton & Young and Heffer & Co. Glass and mirrors: W. Tabor & Son (Glass), Ltd. Paving to forecourt: Art Pavements & Decorations, Ltd.

## Correction

In the description of the house at Luccombe, illustrated in our issue for February 13, it was stated that the roof is of copper. This is incorrect. The roof is of zinc.

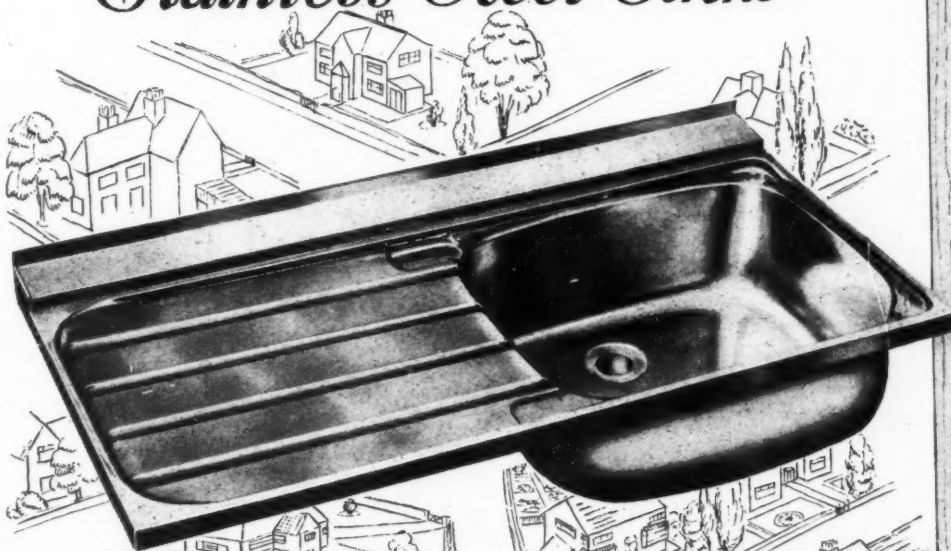


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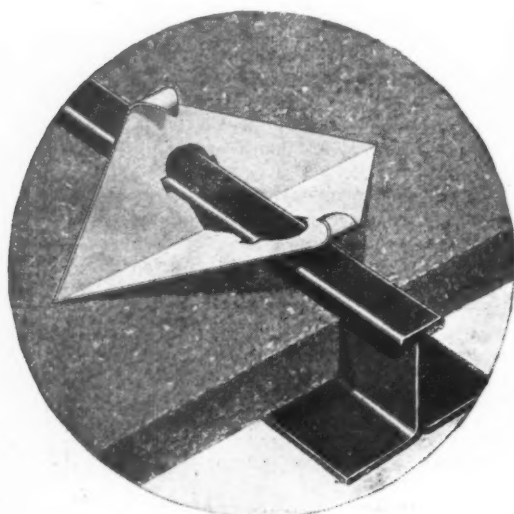
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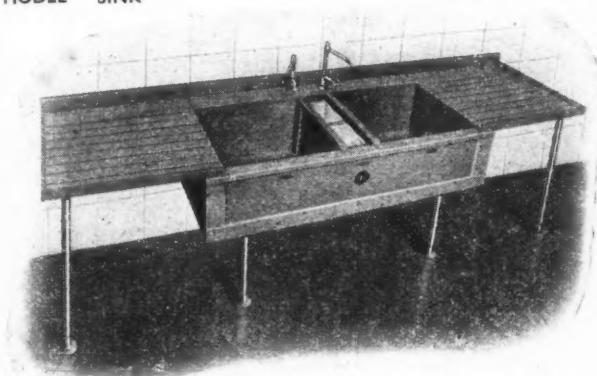
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# METAL LETTERS

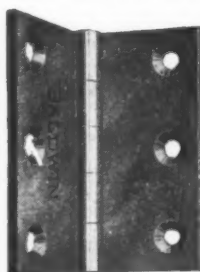
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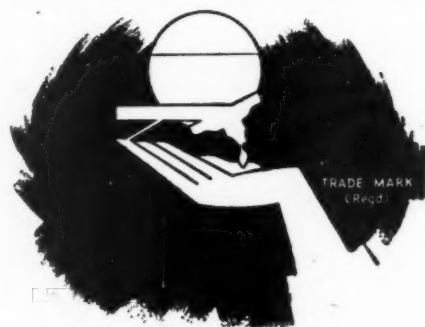
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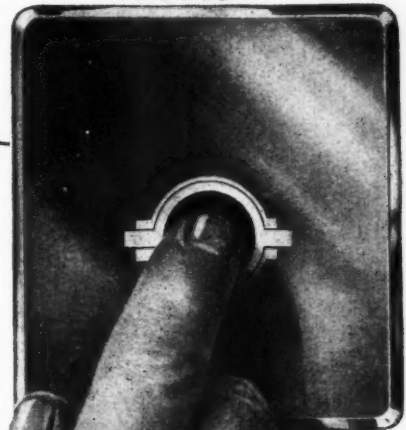
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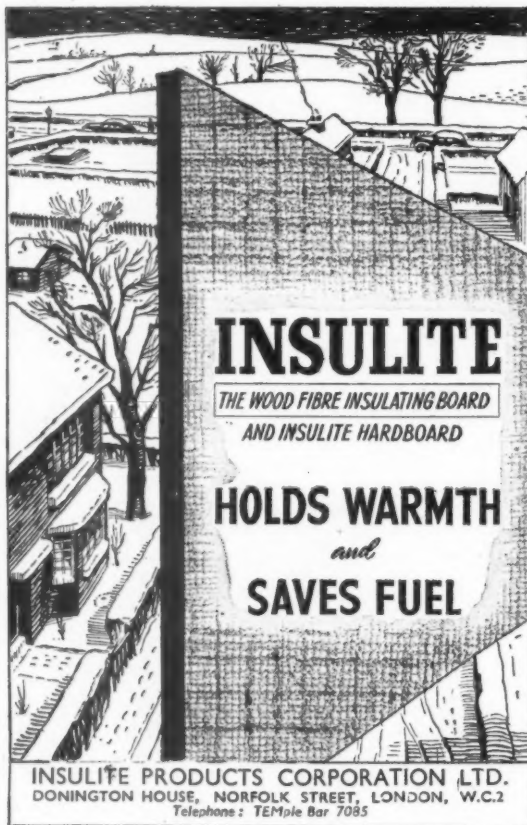
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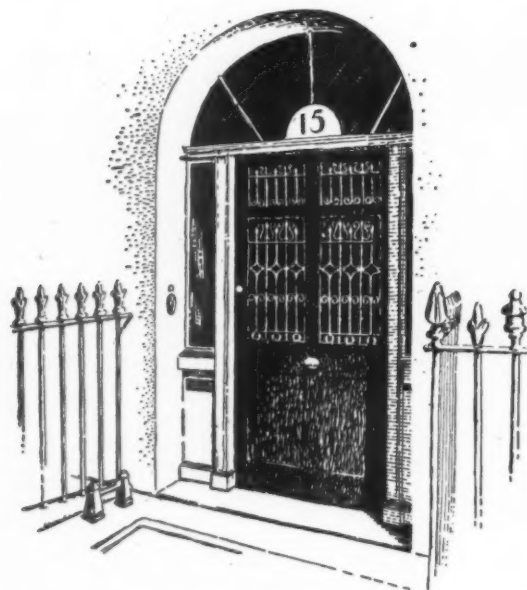


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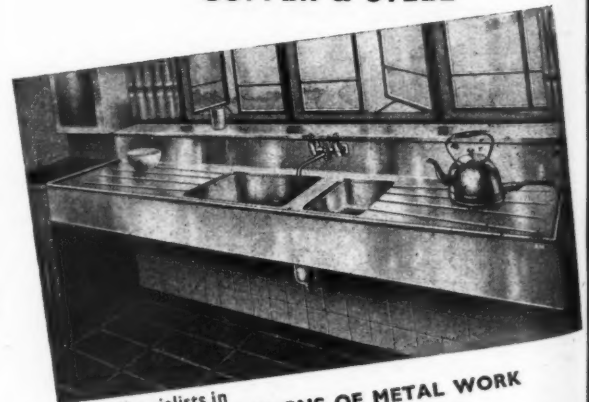


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## CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

## Public and Official Announcements

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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: 75, Eaton Place, London, S.W.1. TEL. SLOANE 5615. 901

## DEPARTMENT OF HEALTH FOR SCOTLAND. SENIOR PLANNING OFFICERS AND PLANNING OFFICERS.

Applications are invited by the Department of Health for Scotland for appointment in Edinburgh to (a) three posts of Senior Planning Officer, and (b) about twelve posts of Planning Officer. The majority of these appointments will be on a permanent basis.

Candidates appointed to the senior posts will be employed either as Regional Planning Officer or as Senior Appeals Inspector. Planning Officers will be allocated to the Planning Regions Section, the Appeals Inspectorate, or to the staff engaged on planning technique, but two will be required as research officers (a) to correlate information on economic, social and industrial factors which affect planning, and (b) to act as maps officer.

The salary scales (both for the permanent and temporary appointments) are as follows:— Senior Planning Officer: Men, £1,010 × £30—£1,200; women, £970 × £30—£1,035. Planning Officer: £730 × £30—£970; women, £610 × £25—£830.

The above salary scales do not include consolidation additions, which at present range (a) for Senior Planning Officer from £105 (men), £84 (women), at the minimum to £120 (men), £96 (women), at the maximum, and (b) for Planning Officer from £90 (men), £72 (women), at the minimum to £105 (men), £84 (women), at the maximum.

If a successful applicant for one of the permanent appointments is a pensionable official of a local authority, the Local Government and Civil Service (Superannuation) Rules, 1936, will apply.

Candidates must be between the ages of 30 and 40 on 1st January, 1947. Those applying for appointment to the two research officer posts referred to above must have a good University degree of economic geography. Candidates for the other appointments must be members of the T.P.L. and preference will be given to those having a basic qualification in Architecture, Engineering, or Surveying.

Applications will be considered from candidates in the Forces who expect to be released in the near future.

Forms of application, with further particulars of the appointments, may be obtained from the Establishment Officer (Room 31), Department of Health for Scotland, St. Andrew's House, Edinburgh, 1, or from the Chief Officer, Civil Service Commission, at the following addresses:—(India), 12, Underhill Lane, Delhi; (Egypt), 8, Sharia Tolmabak, Garden City, Cairo; (Italy), c/o G.H.Q. C.M.F. (Germany), c/o 2nd Echelon, G.H.Q. B.A.O.R. Completed application forms must be returned direct to the Department of Health for Scotland not later than the 15th March, 1947.

Those candidates who appear best qualified will be required to attend a Selection Board in Edinburgh or London. 903

## LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Secondary (Technical) School, Merton Road, S.W.13 branch, to commence as soon as possible, full-time TEACHER OF TECHNICAL DRAWING AND BUILDING CONSTRUCTION.

Applicants should hold A.R.I.B.A., A.M.I.Struct.E., Higher National Certificate or Diploma in Building, or other comparable qualification, and have had responsible experience in the building industry, or professional practice, and teaching experience in a Secondary (Technical) School of Building. The post will be temporary in the first instance. Salary, Burnham Scale, £300 × £15 to £325 (men), plus London allowance (minimum £36) a year, and additions for training and qualifications as applicable. Commencing salary according to teaching and/or industrial experience. The payment of a special responsibility allowance will be considered. Application forms (stamped addressed foolscap envelope necessary) and further particulars from the Principal, Brixton School of Building, Fernside Road, S.W.4, returnable within ten days. N.M. Forces abroad should apply by letter. (901) 905

## LONDON COUNTY COUNCIL. VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:— PLANNING OFFICER (Grade III). Up to £500 a year (basic).

TECHNICAL ASSISTANT. Up to £420 a year (basic).

Commencing rate of pay will be according to qualifications and experience. Cost-of-living addition, at present £78 to £90 a year (men), and £63 to £84 (women), are payable in addition.

There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.

Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies. 983

## COUNTY OF DEVON.

COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments on the permanent staff, in accordance with the National Scale of Salaries:—

(a) ASSISTANT ARCHITECT. A.P.T., Grade VI. Salary, £535-£600 per annum.

(b) ASSISTANT ARCHITECT. A.P.T., Grade V. Salary, £460-£510 per annum.

(c) ASSISTANT ESTIMATOR AND SURVEYOR. A.P.T., Grade III. Salary, £390-£435 per annum.

The salaries are subject to the addition of cost-of-living bonus, at present £59 16s.

Candidates for (a) and (b) must be fully qualified, and should have had considerable experience in the design, construction, and supervision of public buildings, and should possess a sound knowledge of the organisation and administration of a large architectural department.

Candidates for (c) should have passed at least the Intermediate Examination of the Royal Institute of Chartered Surveyors (Quantities Sub-division), and be capable of undertaking preparation of detailed estimates, taking off quantities from drawings for variations, preparation of final accounts, and the general technical duties in the Estimating Section of the County Architect's Department.

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Wednesday, the 19th March, 1947.

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

A. J. WITHEYCOMBE.

Clerk of the County Council.

The Castle, Exeter. 3rd February, 1947. 983

## BOROUGH OF ROYAL LEAMINGTON SPA. DEPARTMENT OF DIRECTOR OF HOUSING. APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.

Housing accommodation will be made available to the successful applicant.

Applications are invited for the above appointment, the salary will be within Grades IV and V of the A.P. & T. Division, viz., £420-£510, and will be fixed in accordance with the age and experience of the successful applicant. The salary will be subject to increments of £15 per year to a maximum of £510, and will carry a cost-of-living bonus of approximately £60 per annum.

The appointment will be on the unestablished staff of the Corporation, terminable by one calendar month's notice on either side, but is likely to last for at least five years and possibly longer.

Candidates must be suitably qualified, and should have had a thorough training in design and construction, and be experienced in the preparation of sketch plans, working drawings and specifications, particularly in relation to flats, housing estates and buildings relating thereto. A knowledge of model making will be an advantage.

Applications, giving full particulars of experience, together with age, present position and salary, and copies of not more than three testimonials, must be posted to H. Fodesski, A.R.I.B.A., Dip.T.P., A.M.T.P.I., Director of Housing, 3, Regent Grove, Leamington Spa.

J. N. STOTHERT. Town Clerk.

Town Hall, Leamington Spa. 13th February, 1947. 940

## COUNTY BOROUGH OF WALLASEY.

Applications are invited for the post of ASSISTANT SCHOOLS ARCHITECT. Applicants should be not more than 45 years of age, and preferably Associates of the Royal Institute of British Architects. Good experience of educational buildings is desirable. Salary £535 × two increments of £20 and one of £25 to £600, plus bonus, £59 19s. 3d.

Forms of application may be obtained from the Director of Education, Town Hall, Wallasey, to whom completed forms should be returned as soon as possible, and in any case not later than a fortnight from the date of the appearance of this advertisement. Canvassing will disqualify.

EMRYS EVANS,

Town Clerk.

Town Hall, Wallasey. 910

## BARNET URBAN DISTRICT COUNCIL.

TOWN PLANNING ASSISTANT (GRADE V). Applications are invited for the appointment of Town Planning Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with Grade V of the National Scheme (£480-£530 per annum), plus cost-of-living bonus.

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 candidate will be required to pass a medical examination. Applications, stating age, qualifications and experience, endorsed "Town Planning Assistant," and accompanied by copies of recent testimonials, should reach the Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet, Herts, not later than 21st March, 1947.

ALDRED S. MAYS,

Clerk of the Council.

Municipal Offices, Barnet. 5th February, 1947. 982

## LEEDS SCHOOL OF ARCHITECTURE (LEEDS COLLEGE OF ART).

Applications are invited for the post of LECTURER IN ARCHITECTURE at the Leeds School of Architecture. A candidate with suitable qualifications and experience may be appointed in the grade of Senior Assistant.

Candidates should preferably have been trained in a recognized school of architecture, and be Associates of the R.I.B.A.

Salary scales:—Assistants: Men, £315-£355; women, £282-£322-£344. W.L. service and up to 10 years' professional experience may be counted as teaching service in fixing the commencing salary. Senior Assistants: Men, £600-£25-£750; women, £480-£20-£600. Additions in all cases for architectural school training.

Further particulars and application forms may be obtained by sending stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1. 923

## CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments on the permanent staff, which are subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

The salary scale is that of the A.P. & T. Division of the National Scheme of Conditions of Service, and is subject to the addition of cost-of-living bonus, at present £59 16s. per annum.

SENIOR ASSISTANT QUANTITY SURVEYORS, Grade VI, £535-£600 per annum.

Applicants should preferably be Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

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 to be obtained from the undersigned, accompanied by copies of not more than three testimonials, should be returned to me as soon as possible.

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

City Architect.

Weston Lodge, Seymour Road, Plymouth. 506

## COUNTY BOROUGH OF SWANSEA.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Junior Architectural Assistant, in the Borough Architect's Department. Salary—in accordance with the General Division of the National Scales of Salaries, viz., between £65 and £300 per annum (male) or between £52 and £240 per annum (female)—according to age, plus cost-of-living bonus (at present £59 16s. a year for males and £48 a year for females).

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.

The appointment may be terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Guildhall, Swansea.

Applications, accompanied by copies of two recent testimonials, and enclosed in an envelope endorsed "Junior Architectural Assistant," must be delivered to the undersigned not later than 31st March, 1947.

Canvassing, directly or indirectly, will disqualify.

(Signed) T. B. BOWEN,

Town Clerk.

Guildhall, Swansea. 503



**BOROUGH OF GRANTHAM.  
HOUSING ARCHITECT'S DEPARTMENT.  
APPOINTMENT OF JUNIOR TECHNICAL ASSISTANT.**

Applications are invited for the appointment of a Junior Technical Assistant, on the permanent establishment of the Housing Architect's Department, at a salary commencing at £255 per annum, rising, subject to satisfactory service, by annual increments of £15 to £300 per annum, plus cost-of-living bonus (at present £59 16s. per annum). Applicants should be neat and accurate draughtsmen, capable of preparing working drawings and details, and well experienced in making surveys and taking levels. Experience on local authority housing schemes will be an advantage. The candidate selected will be required to pass a medical examination. The appointment is subject to the Local Government (Superannuation) Act. It may be terminated by one month's notice on either side.

Applications in writing, giving age, details of education and training, together with experience and qualifications, and copies of not more than three recent testimonials, are to be sent to the undersigned not later than Monday, 24th March, 1947.

**JOHN F. GUILLE,**  
Town Clerk.

Guildhall, Grantham.  
6th March, 1947. 908

**COUNTY BOROUGH OF GREAT YARMOUTH.  
APPOINTMENT OF SENIOR TOWN PLANNING ASSISTANT.**

Applications are invited for the appointment of a Senior Town Planning Assistant (permanent), at a salary in accordance with Grade V of the National Scale of Salaries, £460 per annum, rising by two increments of £15 and one increment of £20 to £510 per annum, plus cost-of-living bonus, at present £59 16s.

Applicants should have had experience in the preparation and administration of planning and reconstruction schemes, and must be Corporate Members of the Town Planning Institute, and preference will be given to those who are Corporate Members of the Royal Institute of British Architects.

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

Applications, stating age, qualifications and previous experience, together with copies of three recent testimonials, should be enclosed in an envelope endorsed "Senior Town Planning Assistant," and must reach the undersigned not later than noon on the 21st March, 1947.

Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in writing whether, to their knowledge, they are related to any member of, or the holder of any senior office under, the Council. Any candidate failing to do so will be disqualified, and, if appointed, will be liable to dismissal without notice.

**FARRA CONWAY,**  
Town Clerk.

Town Hall, Great Yarmouth.  
19th February, 1947. 909

**COUNTY COUNCIL OF THE WEST RIDING  
OF YORKSHIRE.  
COUNTY ARCHITECT'S DEPARTMENT.  
ASSISTANT ARCHITECT.  
CINEMATOGRAPH AND STAGE PLAYS  
REGULATIONS.**

Applications are invited for the post of Assistant Architect, on the permanent staff; salary will be within the grade £390-£415-£510, plus cost-of-living bonus, at present £59 16s. per annum. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

In addition to general architectural work, the duties will include the examination and preparation of reports on all plans submitted under the Cinematograph Act and Stage Play Regulations, and candidates must have had similar experience with other comparable licensing authorities.

Applications, on forms obtainable from this office, must reach me not later than the 31st March, 1947.

**HUBERT BENNETT, F.R.I.B.A.,**  
County Architect.

County Hall, Wakefield. 911

**LONDON COUNTY COUNCIL.  
ARCHITECTURAL ASSISTANTS.**

Applications are invited for positions of Architectural Assistant in the Housing and Valuation Department, at salaries of up to £420 a year, plus cost-of-living addition, at present amounting to £90. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the department on the occurrence of vacancies. Engagement will involve contribution to the Council's Superannuation and Provident Fund.

Successful candidates will be required to undertake work in connection with the design and development of housing schemes (cottages and multi-storey flats).

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1. (stamped addressed foolscap envelope required). Canvassing disqualifies (411). 914

**CITY OF BATH.  
CITY ENGINEER'S DEPARTMENT-ARCHITECTURAL SECTION**

Applications are invited for the permanent appointment of JUNIOR ARCHITECTURAL ASSISTANT, at a salary of £330-£375 (Grade I) or £360-£405 (Grade II), depending on the qualifications and experience of the candidates interviewed.

Cost-of-living bonus, at present £1 3s. per week, is payable in addition.

Applicants should have passed the Intermediate examination of the R.I.B.A., and possess experience of work on Housing.

The Corporation have recently decided to take certain steps designed ultimately to assist successful applicants for technical appointments in securing housing accommodation.

The selected candidate will be required to pass a medical examination before the appointment is confirmed, and to contribute to the Corporation's Superannuation Fund.

Applications should be addressed to the City Engineer, Guildhall, Bath, and should arrive not later than 22nd March, 1947.

They should state age, qualifications, experience, earliest commencing date, and should include copies of two recent testimonials.

Canvassing, direct or indirect, is prohibited. Relationship to a Member of the City Council, or to a Chief Officer, should be disclosed.

The National Scale of Salaries and Conditions of Service have been adopted by the Council.

**J. BASIL OGDEN,**  
Town Clerk.

Guildhall, Bath.  
7th February, 1947. 987

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

Applications are invited for the above permanent appointment in the Department of the Borough Engineer.

Applicants must be registered architects, but need not necessarily have had municipal engineering experience.

The salary will be in accordance with Grade A.P.T., IV of the National Scheme, commencing at £440 per annum (inclusive of London weighting), plus cost-of-living bonus, £59 16s. per annum.

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

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southale, must be returned to him, together with two recent testimonials, on or before 17th March, 1947.

Canvassing any member of the Council or any Committee thereof, directly or indirectly, will disqualify.

**M. LINDSAY TAYLOR,**  
Town Clerk.

Town Clerk's Offices, Southale.  
February, 1947. 986

**HOLLAND JOINT PLANNING COMMITTEE.  
APPOINTMENT OF TECHNICAL ASSISTANT.**

Applications are invited for the appointment of Technical Assistant, on the staff of the Joint Planning Committee, at a salary in accordance with Grade I of the Administrative, Professional and Technical Division of the National Scale of Salaries (£330-£375 per annum), plus cost-of-living bonus (at present £59 16s. per annum).

Candidates should be neat draughtsmen and colourists, accustomed to Ordnance and other Map Revision. Experience in the preparation and colouring of maps required in connection with Basic Planning Surveys and Schemes would be deemed an advantage, but is not essential, and preference will be given to persons with a planning qualification.

The appointment, which will be terminable by one month's notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, should reach the undersigned within fourteen days after publication of this advertisement.

**RAYMOND W. HASTINGS,**  
Clerk of the Joint Planning Committee.  
11, Market Place, Spalding, Lincs.  
21st February, 1947. 976

**CROWN AGENTS FOR THE COLONIES.**

Applications from qualified candidates are invited for the following post:—

**QUANTITY SURVEYOR** required by the Iraqi State Railways for a tour of three years in the first instance. Salary between I.D.70 and 90 a month, according to qualifications and experience, plus high cost-of-living allowance, between I.D.18 and 24 a month (Iraqi Dinar 1 equals £1). Free passages, Provident Fund. Candidates should be Chartered Quantity Surveyors, or possess similar qualifications. They must have had experience in a Quantity Surveyor's office, be competent to undertake all operations up to the final preparation of Bills of Quantities, with experience in the measurement of Extras and Omissions, and the final adjustment of Contractors' Accounts. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17612 on both letter and envelope. 915

**THE CITY OF CARDIFF EDUCATION COMMITTEE.**

**THE TECHNICAL COLLEGE.**

Principal: A. HARVEY, Ph.D., B.Sc., M.Inst.P.  
**THE WELSH SCHOOL OF ARCHITECTURE**  
Applications are invited for two full-time posts of LECTURER AND STUDIO INSTRUCTOR, in the School of Architecture. Candidates should have been trained in a Recognized School of Architecture and be Associates of the R.I.B.A. Salary in accordance with the Burnham (Technical) Scale, with appropriate additions for training, war service, and professional experience. Further particulars and application form may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope.

**W. J. WILLIAMS,**  
Director of Education.

City Hall, Cardiff. 969

**HIS MAJESTY'S COLONIAL SERVICE.  
ARCHITECT REQUIRED BY THE GOVERNMENT OF ADEN.**

The appointment is on probation for permanent and pensionable employment, and carries a fixed salary of £1,050 per annum, with a variable war bonus, amounting at present to £45. Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and have had considerable practical experience in the design and construction of public buildings, including schools and hospitals; reinforced concrete design; specification writing and the supervision of building works; town-planning, including the preparation and implementation of schemes. Administrative experience would also be required.

Length of tour varies from 18 to 24 months. Home leave on full pay is granted at the rate of 7 days for each month of resident service. Free unfurnished quarters are provided, or an allowance in lieu, together with free passages once each way each tour for the officer, and, if married, for his wife. The officer is entitled to free medical attention. Income tax is payable at local rates. Intending candidates, who must be qualified as above, should write at once to the Director of Recruitment (Colonial Service), 15, Victoria Street, London, S.W.1, stating age, professional qualifications and experience. 962

**COUNTY BOROUGH OF EAST HAM.  
APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANTS.  
TERMS AND CONDITIONS OF APPOINTMENT.**

Applications are invited from qualified persons for the temporary appointment of Two Junior Architectural Assistants (Grade I), in the Borough Engineer and Surveyor's Department. Preference will be given to candidates who have passed the Intermediate examination of the Royal Institute of British Architects or hold an equivalent qualification, and have general knowledge and experience of architectural work.

The salary will be in accordance with Grade I of the Council's Grading Scheme for official staff, i.e., £300 per annum, rising by annual increments of £15 to a maximum of £345 per annum, plus London allowance (£20) and war bonus, at present £59 16s. per annum in the case of persons over 21 years of age, but the commencing salary may be increased according to the qualifications and experience of the persons appointed.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for temporary official staff in force from time to time, and the successful candidate will be required to pass a medical examination.

Applications, on the form obtainable from the undersigned, must be delivered to the Town Clerk, together with copies of three recent testimonials, not later than the 24th March, 1947.

Canvassing will disqualify.  
(Signed) H. A. EDWARDS,  
Town Clerk.

Town Hall, East Ham, E.6.  
21st February, 1947. 967

**COUNTY BOROUGH OF HALIFAX.  
BOROUGH ENGINEER'S DEPT.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT-GRADE VI (A.P.T.).**

Applications are invited for the appointment of Architectural Assistant, on the permanent staff, at a salary of £535, rising to £600 per annum, in accordance with Grade VI (A.P.T.) of the National Scale. Cost-of-living bonus, at present £59 16s. per annum, will be payable in addition.

Candidates should be fully trained Architects experienced in the preparation of plans and detailed working drawings, and preference will be given to those having experience in Housing. Candidates must be A.R.I.B.A., or hold equivalent qualification.

The appointment will be subject to the conditions of service adopted by the Corporation and the Local Government Superannuation Act, 1937.

The Corporation have decided that in the letting of requisitioned houses consideration should be given to the requirements of newly appointed members of the staffs of Corporation Departments.

Applications, stating age, qualifications, present position and salary and experience, accompanied by copies of three recent testimonials, and endorsed "Architectural Assistant," should be delivered to the undersigned not later than Monday, the 17th March, 1947.

**W. USHER,**  
Town Clerk.

Town Hall, Halifax.  
6th February, 1947. 969



# **BOROUGH OF BEXLEY. BOROUGH ENGINEER'S DEPARTMENT. ARCHITECT'S SECTION.**

Applications are invited for the following appointments in the Architect's Section of the Borough Engineer and Surveyor's Department, at salaries in accordance with the National Joint Council's Scales of Salaries:—

- (1) **FIRST ASSISTANT ARCHITECT.** Salary, £460-£510 per annum (Grade V, A.P.T. Division). Commencing salary to be determined by qualifications and experience.
- (2) **ASSISTANT ARCHITECT.** Salary £460-£510 per annum (Grade V, A.P.T. Division).
- (3) **ARCHITECTURAL ASSISTANT.** Salary £390-£435 or £420-£465 per annum (Grade III or Grade IV, A.P.T. Division). Commencing salary to be determined by qualifications and experience.

In each case there will be a special weighting for the London area of £20 per annum and a cost-of-living bonus of £59 16s. per annum.

Candidates for the posts of First Assistant Architect and Assistant Architect must be Associates of the Royal Institute of British Architects, and have had considerable experience in designing and the supervision of contracts for houses, flats, and public buildings.

Candidates for the post of Architectural Assistant must either be Associates of the Royal Institute of British Architects, or be in an advanced stage of preparation for the final examination of that Institute, and must have had considerable experience in the preparation of working drawings and the inspection of works in progress.

The appointments will be subject to the Local Government Superannuation Act, 1937, and the National Conditions of Service, and will be terminable by one month's notice on either side.

Applications, giving age, present and previous appointments and experience, supported by copy testimonials, should be received by the Borough Engineer and Surveyor at the under-mentioned address by the 24th March, 1947.

Applicants must state in their applications whether to their knowledge they are related to any member of or the holder of any senior office under the Council. Failure to do so or canvassing in any way will disqualify.

**ARTHUR GOLDFINCH,**  
Deputy Town Clerk.

Council Offices, Bexleyheath. 972

# **COUNTY BOROUGH OF EAST HAM EDUCATION COMMITTEE.**

**EAST HAM TECHNICAL COLLEGE.**  
Principal A. J. JININGS, B.Sc. Ph.D., A.R.I.C.

Applications are invited for the post of **LECTURER IN BUILDING CONSTRUCTION** and Allied Subjects for Senior Full-time Day and Part-time Day and Evening Courses.

Applicants should hold a degree, or equivalent qualification. Corporate Membership of an appropriate Institution is also desirable.

Salary in accordance with the Burnham (Technical) Scale, London area.

Further particulars, and form of application, which should be returned as soon as possible, can be obtained from the undersigned.

(Signed) **L. JOHN DYER,**

Chief Education Officer.

Education Office, Town Hall Annex, Barking Road, East Ham, E.6. 973

# **STAFFORDSHIRE COUNTY COUNCIL. EDUCATION COMMITTEE.**

Applications are invited for the following appointments, on the Staff of the County Education Architect:—

- ASSISTANT ARCHITECTS.**—Grade V, £460-£510; Grade IV, £420-£465.
- JUNIOR ARCHITECTURAL ASSISTANTS.**—Grade II, £360-£405; Grade I, £330-£375.
- ASSISTANT QUANTITY SURVEYOR.**—Grade IV, £420-£465.

Preference given to candidates with experience in School building. Applicants for Grade V must be members of R.I.B.A. or equivalent. Applicants for Grade II should have passed Inter. R.I.B.A.

Bonus, at present £59 16s., payable in addition to foregoing salaries. All appointments will be subject to the Scheme and Conditions of Service of the National Joint Council.

Applications, stating age, qualifications and experience, accompanied by copies of recent testimonials, to be submitted to the Architect, County Education Office, Stafford.

**T. H. EVANS,**

Clerk of the County Council. 920

# **CROWN AGENTS FOR THE COLONIES.**

Applications from qualified candidates are invited for the following post:—

**QUANTITY SURVEYOR** required by the Government of Nigeria Public Works Department for a tour of 12 to 24 months in the first instance. Salary between £600 and £1,000 a year, according to qualifications and experience. On a salary of £600 there is a local allowance of £24 a year and, for married men a separation allowance between £72 and £192 a year, according to number of dependants. Outfit allowance £60. Free passages and quarters. Candidates must be Chartered Quantity Surveyors and have had good experience of practical quantity surveying. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17564 on both letter and envelope. 522

# **SOUTHERN COLLEGE OF ART (PORTS-MOUTH CENTRE), GUILDHALL SQUARE, PORTSMOUTH.**

Principal: **W. J. L. GARDNER, A.R.C.A.**  
**SCHOOL OF ARCHITECTURE.**

Applications are invited for the under-mentioned post in the School of Architecture. Candidates should preferably have been trained in a recognized School of Architecture and be Associates of the R.I.B.A.

**FULL-TIME LECTURER AND STUDIO INSTRUCTOR IN CONSTRUCTION (APPLIED AND THEORETICAL),** to be mainly responsible for the work in Construction over the Three-year Course.

Special qualifications in Advanced Construction, Steel and Reinforced Concrete, will be an additional recommendation.

Burnham Scale salary (men, £300-£315-£325; women, £270-£282-£290), with additions for full-time school training and for qualifications equivalent to Graduate. War service and up to ten years' professional experience may be counted for increments in fixing commencing salary.

Further particulars and application form may be obtained from the Registrar, College of Art, The Square, Portsmouth.

**E. G. BARNARD, M.A.,**  
Chief Education Officer. 956

# **CITY OF COVENTRY.**

The Corporation of Coventry invites applications from duly qualified persons for the following whole-time permanent appointments, in the City Architectural Department:—

**ASSISTANT ARCHITECTS:**  
Vacancies exist on the following salary grades:—

**A.P.T. IV.** The salary commences at £420 per annum, and rises by annual increments of £15 to £465 per annum.

**A.P.T. III.** The salary commences at £390 per annum, and rises by annual increments of £15 to £435 per annum.

**A.P.T. II.** The salary commences at £360 per annum, and rises by annual increments of £15 to £405 per annum.

**QUANTITY SURVEYORS:**  
Vacancies existing on the following salary grades:—

**A.P.T. III.** The salary commences at £390 per annum, and rises by annual increments of £15 to £435 per annum.

**A.P.T. II.** The salary commences at £360 per annum, and rises by annual increments of £15 to £405 per annum.

**HEATING AND VENTILATING ENGINEER,** who must be a qualified member of the Institute. Salary in accordance with Grade A.P.T. V (commencing at £460 per annum, and rising by two increments of £15 per annum, and one of £20 per annum to £510 per annum).

Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to 23s. per week for men and 18s. 6d. for women.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts, 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' Pensions Fund.

Applications 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 Monday, the 24th March, 1947.

Canvassing, directly or indirectly, will be a disqualification.

**D. E. E. GIBSON, M.A., A.R.I.B.A.,**  
A.M.T.P.I., City Architect.

1a, Warwick Row, Coventry. 944

# **HERTFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING OFFICER.**

Applications are invited for the appointment of County Planning Officer, at a salary of £1,700 per annum, rising by annual increments of £100 to a maximum of £2,000 per annum, inclusive of cost-of-living bonus. Travelling allowance in accordance with the County Scale will be paid.

Applicants must possess organizing and administrative ability of a high degree, as well as extensive experience of Town and Country Planning, and of negotiation with local authorities, statutory undertakers and property owners. It is desirable that they should also possess one or more of the following professional qualifications: Member of the Town Planning Institute; Fellow or Associate of the Chartered Surveyors' Institute; Fellow or Associate of the Royal Institute of British Architects; Member of the Institution of Civil Engineers, or of the Institution of Municipal Engineers.

Forms of application, together with further particulars of duties and terms and conditions of appointment, may be obtained from the undersigned, to whom applications must be sent, to be received by the first post on the 16th day of April, 1947. Canvassing, either direct or indirect, will disqualify.

**ELTON LONGMORE,**

Clerk of the County Council.

County Hall, Hertford. 969

19th February, 1947.

# **CITY AND COUNTY OF THE CITY OF EXETER.**

Applications are invited for the following appointments on the permanent staff of the City Architect's Department:—

- (a) **PRINCIPAL ASSISTANT ARCHITECT,** Education Section, A.P.T., Grade VI. Salary £535 to £600 per annum.
- (b) **PRINCIPAL ASSISTANT ARCHITECT,** Housing Section, A.P.T., Grade VI. Salary £535 to £600 per annum.
- (c) **SENIOR ASSISTANT ARCHITECTS,** A.P.T., Grade V. Salary £460 to £510 per annum.

Candidates for the above posts should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications, and must have had considerable experience in Municipal Housing and/or Educational Work.

- (d) **STRUCTURAL ENGINEERING ASSISTANT,** A.P.T., Grade IV. Salary £420 to £465 per annum.

Candidates for this post should have special qualifications and experience in reinforced concrete and steel-framed structures.

- (e) **HEATING ENGINEERING ASSISTANT,** A.P.T., Grade IV. Salary £420 to £465 per annum.

Candidates for this post should have considerable experience in all classes of heating and domestic hot water supplies to schools, hospitals, and municipal buildings. Knowledge of electrical work an advantage.

- (f) **ASSISTANT QUANTITY SURVEYORS,** A.P.T., Grade V, £460 to £510 per annum.

Candidates should be qualified and experienced in all stages of Quantity Surveying work, estimates, issue of certificates, and settlement of contracts.

- (g) **SENIOR CLERK OF WORKS,** A.P.T., Grade IV. Salary £420 to £465 per annum.

Candidates should have considerable experience in supervising the construction of large public building works.

- (h) **CONTRACTS CLERK,** A.P.T., Grade I. Salary £330 to £375 per annum.

Candidates should have experience in the accountancy side of contract and quantity surveying work.

Cost-of-living bonus, at present £59 19s. 3d. per annum, is payable, in addition to the salaries stated for each of the above appointments.

An endeavour will be made to find housing accommodation for those appointed to some of the above posts.

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

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

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience, and the earliest possible date when available, together with copies of recent testimonials, should be sent to **H. B. ROWE, F.R.I.B.A., A.M.I.Struct.E.,** City Architect, 2, Southernhay West, Exeter, not later than the 21st March, 1947.

**C. J. NEWMAN,**  
Town Clerk.

Exeter. 947

12th February, 1947.

# **BOROUGH OF ILFORD BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

Applications are invited for the following appointments on the permanent staff of the Borough Engineer and Surveyor's Department:—

- (a) **TWO ARCHITECTURAL ASSISTANTS** (Grade VII, A.P.T. Division of the National Scale), viz., £575-£625 to £650 per annum, the commencing salary being within the scale according to qualifications and experience.

Applicants for these appointments should be Registered Architects and Corporate Members of the Royal Institute of British Architects, and have a thorough knowledge of Architectural works, with practical experience in the design and development of Public Buildings of all types, Housing Schemes, etc., and the preparation of specifications, and capable of supervising and controlling contracts.

- (b) **ONE ARCHITECTURAL ASSISTANT** (Grade II, A.P.T. Division of the National Scale), viz., £360-£415 to £405 per annum.

Preference for this appointment will be given to applicants who have passed a recognized professional examination.

Cost-of-living bonus—at present £59 16s. per annum—plus London weighting of £20 per annum, will also be payable in respect of each appointment.

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 by the Council's Medical Officer of Health.

The appointments will be subject to one month's notice on either side.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Ilford, and should be returned to the undersigned not later than the 21st March, 1947.

**K. F. B. NICHOLLS,**

Town Clerk.

Town Hall, Ilford. 928

24th February, 1947.

**LONDON COUNTY COUNCIL.  
QUANTITY SURVEYORS.**

Vacancies exist for Quantity Surveyors, in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at consolidated salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—  
(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.  
(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1. (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice. Canvassing disqualifies. (632) 997

**BOROUGH OF PUTNEY.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of an Architectural Assistant, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade II of the A.P.T. Division of the Scale of Salaries set out in the Scheme of Conditions of Service, namely, £360 per annum, rising by annual increments of £15 to £405 per annum, plus cost of living bonus, at present £59 16s.

Candidates should have had experience in the Design of Houses and Estate Layouts, Supervision of Contracts of Building, Road and Sewer Works, Setting Out and Measurement of Work, and keeping of Records.

The appointment will be subject to (a) the Scheme of Conditions of Service, (b) the provisions of the Local Government Superannuation Act, 1937, and (c) the successful candidate passing a medical examination.

Applications, stating age, giving full details of training, experience, present and previous positions held, qualifications, and accompanied by copies of not more than three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Putney, not later than 9 a.m. on Monday, the 17th March, 1947.

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

W. R. CRUSE.  
Town Clerk. 931

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

Applications are invited for the following appointments in the above-named Department:—  
ARCHITECTURAL ASSISTANT. £255 to £600 (A.P.T. Division, Grade VI).

Applicants must be A.R.I.B.A., with good experience in Architectural Design.

ARCHITECTURAL ASSISTANT. £420 by £15 to £465 (A.P.T. Division, Grade IV).

Applicants must be A.R.I.B.A.

QUANTITY SURVEYOR. £235 to £600 (A.P.T. Division, Grade VI).

Applicants must be P.A.S.I. (Quantity Surveying Division).

QUANTITY SURVEYOR. £420 by £15 to £465 (A.P.T. Division, Grade IV).

Applicants must be P.A.S.I. (Quantity Surveying Division).

JUNIOR ASSISTANT, QUANTITY SURVEYOR. £255 by £15 to £300 (Miscellaneous Division, Grade I).

Applicants must have passed the first part Intermediate examination of the Surveyor's Institution.

ENGINEERING ASSISTANT. £420 by £15 to £465 (A.P.T. Division, Grade IV).

Applicants must be A.M.I.H.V.E. or A.M.I.E.E., and preference will be given to candidates with experience in the design and calculation of Heating, Hot Water and Ventilating Installations, and some knowledge of Electrical Installations. Applicants should also have experience in the preparation of reports and the supervision of works.

A cost-of-living bonus in accordance with Council's Scale (at present at the rate of £59 19s. per annum at 21 years of age or over) will also be paid.

All the above-mentioned appointments will be subject to the rules and regulations of the County Council from time to time in force, the provision of the Local Government Superannuation Acts, 1937 and 1939, and to the passing satisfactorily of a medical examination by the Council's Medical Officer of Health.

Canvassing of any form will be a disqualification, and every candidate should disclose whether to his knowledge he is related to any Member of the Authority or to a holder of any senior office under the Authority.

Applications, stating age, training, experience and qualifications, together with copies of three recent testimonials, should be sent to the undersigned not later than the 19th March, 1947.

R. O. HARRIS, F.R.I.B.A.,  
County Architect. 985

Park Street, Taunton, Somerset.

**BURGH OF GREENOCK.  
APPOINTMENT OF TECHNICAL STAFF TO MASTER OF WORKS DEPARTMENT.**

The Corporation of Greenock invite applications for the following positions in the Department of the Master of Works, viz:—

(1) ONE SENIOR TOWN PLANNING ASSISTANT, at a commencing salary of £460, rising to £510 per annum, plus cost-of-living bonus of £60. Applicants must have extensive experience in the preparation of a Town Planning Scheme and in the Administration of Interim Development Control, and should hold a recognized Town Planning, Engineering, or Architectural qualification.

(2) TWO SENIOR ARCHITECTURAL ASSISTANTS, at a commencing salary of £460, rising to £510 per annum, plus cost-of-living bonus of £60. Applicants must be Registered Architects, and must be Associate Members of the Royal Institute of British Architects or equivalent. They must have extensive experience in Housing and General Architectural Work.

(3) TWO JUNIOR ARCHITECTURAL ASSISTANTS, at a commencing salary of £330, rising to £375 per annum, plus cost-of-living bonus of £60. Applicants must have completed an approved training, and have experience in Housing and General Architectural Work. Preference will be given to candidates who have passed the Intermediate Examination of the Royal Institute of British Architects.

(4) TWO JUNIOR ENGINEERING ASSISTANTS, at a commencing salary of £330, rising to £375 per annum, plus cost-of-living bonus of £60. Applicants must have completed an approved training, and should be experienced in Road and Sewer Work. Preference will be given to candidates who have passed Sections A and B of the examination of the Institution of Civil Engineers, or equivalent.

All the above appointments are upon the permanent staff of the Corporation, and are subject to one month's notice on either side. Successful applicants will be required to pass a medical examination, and to contribute to the Corporation's Superannuation Fund under the provisions of the Local Government Superannuation (Scotland) Act, 1937.

Applications, endorsed according to vacancy applied for, stating age, qualifications, experience, and accompanied by copies of not more than three recent testimonials, should be forwarded to the undersigned not later than 27th March, 1947.

A. H. GRAY,  
Town Clerk. 924

Municipal Buildings, Greenock.

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

Applications are invited for the following appointments, on the staff of the County Architect's Department:—

(a) ONE QUANTITY SURVEYOR (Grade VII), £375×£25=£650 per annum.

(b) ONE ASSISTANT ARCHITECT (Grade V), £460×£15 and £20 to £510 per annum.

(c) TWO ASSISTANT ARCHITECTS (Grade IV), £420×£15=£465 per annum.

The current cost-of-living bonus of £59 16s. will be paid in addition to the salaries stated.

Candidates for appointment (a) should be Members of the Surveyors' Institution (Quantities Section), and should have had wide experience in preparing estimates and Bills of Quantities, measuring up work in progress, adjustment of accounts, etc.

Candidates for appointments (b) and (c) must be Registered Architects, preferably A.R.I.B.A., with good general experience in the design and construction of public buildings, including Schools.

The 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 name, age, qualifications, experience, present and previous appointments (with dates), together with copies of three recent testimonials, should be delivered to W. T. Lloyd, A.R.I.B.A., County Architect, County Offices, Carmarthen, not later than Saturday, 22nd March, 1947.

DANIEL JOHNS,  
Clerk of the County Council.

County Offices, Soilmann Street, Carmarthen. 916

**BIRMINGHAM CITY TRANSPORT.  
CLERK OF WORKS.**

Applications are invited for the temporary appointment of a Clerk of Works, in connection with the erection of the Birmingham City Transport's new Omnibus Garage at Quinton, at a salary of £10 per week inclusive.

The person appointed will be required to supervise the erection of the Garage, and to carry out any duties under the direction of the General Manager.

Applicants must have a thorough knowledge of building construction and inspection, and have had actual experience in this class of work.

Applications, stating age, qualifications, experience, and when able to commence duties, accompanied by three recent testimonials, must be delivered to the undersigned not later than the 20th March, 1947.

A. C. BAKER,  
General Manager. 917

The Council House, Birmingham, 3.

**COUNTY BOROUGH OF SOUTHBEND-ON-SEA  
EDUCATION COMMITTEE.**

MUNICIPAL COLLEGE, VICTORIA CIRCUS

Principal: P. F. R. VENABLE, Ph.D., B.Sc., F.R.I.C.

Department of Architecture and Building, which is recognized by the Royal Institute of British Architects, and which has over 70 full-time Architectural Students; 110 part-time day and 250 evening Building Students.

Applications are invited for the following, to commence duties as soon as possible:—

HEAD OF THE DEPARTMENT: Fellow or Associate Member of the Royal Institute of British Architects. Candidates should have teaching and administrative experience, and considerable professional experience in Architecture.

Salary, Grade II, head of Department, Burnham Technical Scale, £750 by £25 to £850, plus approved training allowance.

SENIOR ASSISTANTSHIP IN ARCHITECTURE: Fellow or Associate Member of R.I.B.A. Professional experience essential, and full-time or part-time teaching experience desirable.

Salary, Burnham Technical Scale for Senior Assistants, £600 by £25 to £750, plus appropriate training allowance.

LECTURER IN ARCHITECTURE: Fellow or Associate Member of R.I.B.A. Professional experience essential, and full-time or part-time teaching experience desirable.

Salary, Burnham Technical Scale Minimum, £300, plus increments of £15 for each year of full-time teaching, and up to 10 years for professional or industrial experience. Maximum £525, and allowances for Graduate status and approved training.

Fuller details of these posts and forms of application may be obtained from the undersigned, on receipt of a stamped and addressed foolscap envelope. Applications should be returned to the Principal within two weeks of the date of this advertisement.

H. BOYE WATSON,  
Chief Education Officer.

Education Office, Warrior Square, Southend-on-Sea.

17th February, 1947. 906

**METROPOLITAN BOROUGH OF LEWISHAM.  
APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.**

Applications are invited from qualified and experienced Architects for the appointment of Deputy Borough Architect.

Preference will be given to persons who have had experience in the design and construction of Municipal Flats, Housing Schemes, and Public Buildings.

The salary will be at the rate of £750, rising by annual increments of £50 to a maximum of £1,000, plus bonus, at present £59 16s. per annum. The commencing salary within this scale will be fixed in accordance with the experience and qualifications of the candidate appointed.

The appointment will be subject to the rules and regulations of the Council from time to time in force relating to officers; to the provisions of the Local Government Superannuation Act, 1937; to termination on three months' notice on either side; and to the successful candidate passing satisfactorily a medical examination by the Council's Medical Officer of Health.

The person appointed will be required to devote his whole time to the duties of the office, and will not be permitted to engage in private practice.

Forms of application may be obtained from me. Applications, accompanied by copies of not more than three recent testimonials, should be addressed to me in envelopes endorsed "Deputy Borough Architect," and must be received not later than Friday, the 14th March, 1947.

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

ALAN MILNER SMITH,  
Town Clerk. 920

Lewisham Town Hall, Catford, S.E.6.

11th February, 1947.

**SURREY COUNTY COUNCIL.  
APPOINTMENT OF CHIEF QUANTITY SURVEYOR.**

Applications are invited for the appointment of Chief Quantity Surveyor. The salary will be £900 per annum, rising by annual increments of £25 to a maximum of £1,000 per annum.

Applicants must be members of the Surveyors' Institute (Quantities Sub-Division), and should have a wide experience in the preparation of approximate estimates and Bills of Quantities, adjustment of accounts, and other works which are incidental to the position of Chief Quantity Surveyor in a Local Government Department.

The successful applicant will be expected to possess tact and initiative, and be experienced in the control of staff.

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.

Applications, stating age, full details of previous experience, and qualifications, accompanied by copies of three recent testimonials, and the names of three referees, should be sent to the County Architect, Surrey County Council, to the County Hall, Kingston-upon-Thames, not later than Saturday, the 22nd March, 1947.

DUDDLEY AUKLAND,  
Clerk of the Council. 904

County Hall, Kingston-upon-Thames.



**CORPORATION OF LONDON.  
CITY SURVEYOR'S OFFICE.**

**APPOINTMENT OF TECHNICAL STAFF.**  
Applications are invited for the following appointments, in the City Surveyor's Office:—  
**ARCHITECTURAL ASSISTANTS.** Salary £350, inclusive of consolidated bonus.

Applicants should be students of the Royal Institute of British Architects or probationers of the Royal Institution of Chartered Surveyors (Building sub-division).

The appointments are for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. There will be a possibility of establishment for suitable men, and temporary service will count for the purpose of superannuation. Such appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and applicants will be required to pass a medical examination.

Previous experience with a Municipal Body is not essential.

Applications, endorsed "Technical Staff" to be made to George Holliday, F.S.I., The City Surveyor, 55-61, Moorgate, E.C.2, giving the following particulars: Service with Armed Forces, age, qualification or intentions in connection therewith, previous training, positions and experience, date when available to commence duties if selected, together with copies of two testimonials.

905

**CITY OF PETERBOROUGH.  
CITY ENGINEER AND SURVEYOR'S  
DEPARTMENT.**

Applications are invited for the following appointments, in the City Engineer and Surveyor's Department:—

(i) **QUANTITY SURVEYOR.** Grade V, A.P.T., £460, rising by annual increments to £520 per annum, plus bonus.

(ii) **SURVEYOR'S CLERK** (Miscellaneous Division). Grade II, £315, rising by annual increments to £360 per annum, plus bonus.

The duties of appointment (i) will be mainly in connection with the erection of new Schools, and applicants should be experienced in taking off and preparing Bills of Quantities.

Applicants for appointment (ii) should have had experience as clerk in a builder's office or as an assistant in Quantity Surveyor's Office, and should be capable of squaring, abstracting and billing, checking builders' claims for increases in cost of materials, and preparing monthly schedules of same.

Both appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than 21st March, 1947.

Candidates should state whether they are related to any member or senior Officer of the Council.

Canvassing, either directly or indirectly, will disqualify.

**ARTHUR J. REEVES,**  
Town Clerk.

949

**WILTSHIRE COUNTY COUNCIL.  
DEPUTY COUNTY ARCHITECT.**

Applications are invited from Fellows or Associate Members of the Royal Institute of British Architects for the whole-time appointment of Deputy County Architect, at a salary of £950 per annum, rising by annual increments of £50 to a maximum of £1,150 per annum, together with the appropriate cost-of-living bonus.

The appointment is superannuable, and subject to medical examination, and terminable by three months' notice on either side.

Applications, on forms to be obtained from the undersigned, must be received by the 29th March, 1947.

**P. A. SELBORNE STRINGER,**  
Clerk of the County Council.

974

**THE URBAN DISTRICT COUNCIL OF  
KEYNSHAM.**

**APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade III, of the National Scales of Salaries, commencing at £390 per annum, and rising by three annual increments of £15 to a maximum of £435 per annum, plus cost-of-living bonus (at present £59 16s. per annum).

Applicants must have had wide experience in the design and preparation of housing schemes and other architectural work, and possess a suitable technical qualification. The appointment will be subject to one month's notice on either side, to the Local Government Superannuation Act, 1937, and to the submission of a satisfactory medical report. Applications, stating age, qualifications and particulars of experience, accompanied by two recent testimonials, should reach the undersigned not later than first post on Monday, the 24th March, 1947.

**GEO. R. ASHTON,**  
Clerk of the Council.

975

**COUNCIL OFFICES, KEYNSHAM, BRISTOL.**

975

**CITY OF STOKE-ON-TRENT.**

**CITY ARCHITECTURAL DEPARTMENT.**  
Applications are invited for the following appointments on the establishment staff of the City Architectural Department:—

(a) **THREE ASSISTANT ARCHITECTS (EDUCATION).** Salary, A.P.T. Division, Grade VI, £535-£600.

(b) **TWO ASSISTANT ARCHITECTS (EDUCATION).** Salary, A.P.T. Division, Grade V, £460-£510.

(c) **ONE ASSISTANT ARCHITECT (HOUSING).** Salary, A.P.T. Division, Grade V, £460-£510.

(d) **ONE ASSISTANT ARCHITECT (HOUSING).** Salary, A.P.T. Division, Grade III, £390-£435.

(e) **ONE ASSISTANT QUANTITY SURVEYOR.** Salary, A.P.T. Division, Grade VI, £535-£600.

(f) **ONE STRUCTURAL ENGINEER.** Salary, A.P.T. Division, Grade VI, £535-£600.

(g) **ONE HEATING ENGINEER.** Salary, A.P.T. Division, Grade VI, £535-£600.

All the above appointments carry, in addition, a cost-of-living bonus, at present £59 16s. per annum.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the following:—

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

The Committee will endeavour to arrange for suitable housing accommodation to be made available to the successful applicants if required.

Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design and construction of buildings for education purposes, and possess full knowledge of the Building Regulations and standards for School premises of the Education Act, 1944.

Applicants for (b) should also have had experience in the provision of buildings for Education purposes, and a knowledge of the Building Regulations and standards for School premises of the Education Act, 1944, and preference will be given to members of the Royal Institute of British Architects.

Applicants for (c) should have had experience of Housing work for a Local Authority, and preference will be given to members of the Royal Institute of British Architects.

Applicants for (d) should have had experience in Housing work for a Local Authority, and have reached the Intermediate standard of the Royal Institute of British Architects.

Applicants for (e) must be Members of the Royal Institution of Chartered Surveyors (Quantities), and must be competent in all branches of Quantity Surveying practice.

Applicants for (f) should be Members of the Institute of Structural Engineers or possess other appropriate professional qualifications, and have had experience in the design and erection of structural elements of buildings.

Applicants for (g) should be Associate Members of the Institute of Heating and Ventilating Engineers, and have had experience in the design and installation of large Heating, Hot Water and Ventilation plant.

Applications, giving date of birth, particulars of appropriate training, qualifications, experience, previous and present appointments and salary, with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be received by J. R. Piggett, F.R.I.B.A., Chief Architect, City Architectural Department, Kingsway Chambers, Kingsway, Stoke-on-Trent, endorsed with the title and grade of the appointment applied for, not later than 22nd March, 1947.

**HARRY TAYLOR,**  
Town Clerk.

Town Hall, Stoke-on-Trent.  
12th February, 1947.

958

**LONDON COUNTY COUNCIL.  
VACANCIES FOR PLANNING AND BUILDING ACT.**

**STAFF IN THE ARCHITECT'S DEPARTMENT.**  
Applications are invited for a number of professional Grade II positions. Candidates should possess a recognized architectural, surveying, or Town Planning qualification.

Salary £700 to £840 a year (inclusive), by annual increments of £35, operative from 1st April, 1947. Commencing rate will be according to qualifications and experience.

The work is in connection with Interim Development applications, Development of Reconstruction Areas, and preparations of revised zoning plans. Candidates should be conversant with current Town Planning legislation, and knowledge of London Building Acts and By-laws is an advantage.

There will be opportunities for competing, on merit in due course, for permanent appointments and for positions in higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

Other things being equal, ex-Service men and women will receive special consideration. Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form (stamped addressed foolscap envelope necessary), returnable not later than ten days from this date. Canvassing disqualifies. (550).

918

**CITY OF STOKE-ON-TRENT.**

**CITY ARCHITECTURAL DEPARTMENT.**  
Applications are invited for the following appointments on the staff of the City Architectural Department, in connection with the proposed new North Staffordshire Technical College and alterations and additions to the existing College:—

(a) **ONE ASSISTANT ARCHITECT (Reference A/T.C.).** Salary, A.P.T. Division, Grade VII, £575-£650.

(b) **TWO ASSISTANT ARCHITECTS (Reference B/T.C.).** Salary, A.P.T. Division, Grade V £460-£510.

The above appointments carry, in addition, a cost-of-living bonus, at present £59 16s. per annum.

The selected applicants will be required to pass a medical examination, and the appointments will be subject to the following:—

(1) One calendar month's notice on either side.

(2) The provisions of the Local Government Superannuation Act, 1937.

(3) The National Scheme of Conditions of Service for Local Government Officers.

The Committee will endeavour to arrange for suitable housing accommodation to be made available to the successful applicants if required.

Applicants for (a) must be Associates of the Royal Institute of British Architects, and have had experience in the planning, design and construction of buildings for education purposes, and possess full knowledge of the Building Regulations and Standards for School Premises of the Education Act, 1944. Preference will be given to applicants who have also had experience of technical college buildings.

Applicants for (b) should have had experience in the provision of buildings for education purposes, and a knowledge of the Building Regulations and Standards for School Premises of the Education Act, 1944, and preference will be given to members of the Royal Institute of British Architects.

Applications, giving date of birth, particulars of training, qualifications, details of experience, present and previous appointments with salary, with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be received by J. R. Piggett, F.R.I.B.A., Chief Architect, City Architectural Department, Kingsway Chambers, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, and quoting the reference number as above not later than 22nd March, 1947.

**HARRY TAYLOR,**  
Town Clerk.

Town Hall, Stoke-on-Trent.  
12th February, 1947.

957

**COUNTY BOROUGH OF BELFAST.  
CITY ENGINEER AND SURVEYOR'S  
DEPARTMENT.**

Applications are invited for the following appointments to established posts:—

(a) **ENGINEERING ASSISTANTS (Class I).** Salary £350×£25-£550 per annum. Candidates must be Corporate Members of the Institution of Civil Engineers, or Corporate Members of the Institution of Municipal and County Engineers, with a minimum of five years' practical experience in Civil Engineering.

(b) **ENGINEERING ASSISTANTS (Class II).** Salary £250×£25-£450 per annum. Candidates must hold a University Degree in Engineering or have had satisfactory experience in Civil Engineering.

(c) **ARCHITECTURAL ASSISTANTS (Class I).** Salary £350×£25-£550 per annum. Candidates must be Registered Architects, with a minimum of five years' practical experience as such.

(d) **ARCHITECTURAL ASSISTANTS (Class II).** Salary £250×£25-£450 per annum. Candidates must be Registered Architects.

(e) **TECHNICAL ASSISTANTS.** Salary £240×£20-£400 per annum. Candidates must be experienced in surveying and levelling and be competent draughtsmen.

In addition to the salaries stated, a cost-of-living bonus is payable, varying from £78 to £90 per annum, according to the amounts of salary.

Appointments will be subject to the Conditions prescribed in the Council's Grading Scheme for Officers, and in the case of Engineering Assistants (Class I), subject also to the Belfast County Borough Council (City Surveyor's Staff Qualifications) Order, Northern Ireland, 1941. Candidates should not be over 45 years of age on the date of appointment.

Persons appointed will be required to pass a medical examination.

Forms of application and copies of the above-mentioned Conditions and Order may be obtained on application to the City Surveyor, City Hall, Belfast.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than 4 p.m. on Friday, 28th March, 1947.

Canvassing for the appointments in any form, oral or written, direct or indirect, will, if proved to the satisfaction of the appointing Authority, render candidates liable to disqualification. Preference will be given to ex-Service candidates possessing the required qualifications, provided the Council is satisfied that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

**JOHN DUNLOP,**  
Town Clerk.

City Hall, Belfast.  
17th February, 1947.

948



**BOROUGH OF LUTON.  
APPOINTMENT OF DIRECTOR OF  
HOUSING.**

Applications are invited for the above-mentioned appointment from duly qualified applicants, who must be Chartered Surveyors or hold an equivalent professional qualification; have extensive experience in the management of housing estates of magnitude; possess a thorough knowledge of the building trade; and be able to prepare specifications upon which tenders, etc., can be obtained. The salary will be £1,000 per annum, plus cost-of-living bonus, the present rate being £53 16s. per annum.

Details of the conditions of appointment and duties can be obtained from the undersigned, to whom applications, accompanied by the names of three persons to whom reference can be made, must be sent not later than the 31st March, 1947. Canvassing will disqualify.

**W. H. ROBINSON,**  
*Town Clerk.*

Town Hall, Luton.  
26th February, 1947. 998

**COUNTY BOROUGH OF SWANSEA.  
ASSISTANT QUANTITY SURVEYORS.**

Applications are invited for the following appointments, on the established staff, in the Borough Architect's Department:—

(a) **SENIOR ASSISTANT QUANTITY SURVEYOR.** Salary, Grade V, £460, rising by two annual increments of £15 and one of £20 to £510 per annum.

(b) **ASSISTANT QUANTITY SURVEYOR.** Salary, Grade III, £390, rising by annual increments of £15 to £435 per annum.

The salary scales are those of the A.P. and T. Division of the National Scheme of Conditions of Service, and are exclusive of the "cost-of-living" bonus payable in addition at the will of the Council (current rate £3s. per week).

Applicants for both appointments must be Professional Associates of the Royal Institution of Chartered Surveyors, having qualified in the Quantities Sub-Division, and should have had considerable experience in "taking off" in a Quantity Surveyor's Office.

Applicants must be under 45 years of age. 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. The appointments may be terminated by one month's notice on either side.

Forms of application may be obtained from the Borough Architect, Guildhall, Swansea.

Applications, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed "Senior Assistant Quantity Surveyor" or "Assistant Quantity Surveyor, III," as the case may be, must be delivered to the undersigned not later than Monday, 31st March, 1947. Canvassing, directly or indirectly, will disqualify.

**T. B. BOWEN,**  
*Toten Clerk.*

Guildhall, Swansea.  
28th February, 1947. 504

**HIS MAJESTY'S COLONIAL SERVICE.**

**ASSISTANT ARCHITECT** is required by the Government of Northern Rhodesia. The appointment is on contract for one tour of 2-3 years in the first instance. The salary scale is £600-£30-£840, point of entry being dependent upon age, qualifications and experience. A cost-of-living allowance is payable, which varies between £60 and £144 per annum according to the number of dependants of the officer selected. Candidates must be Associates of the Royal Institute of British Architects, and have had experience of the general work of an architect's office. Town Planning experience would be an advantage. The terms of service include home leave on full pay, at the rate of 5 days for each month of resident service, free, partially furnished quarters or an allowance in lieu, and free medical attention. Free passages are provided once each way each tour for the officer, and, if married, for his wife. Income tax is payable at local rates. On completion of contract, an officer is entitled to a gratuity of £25 for every three months of resident service.

Intending candidates, who must be qualified as above, should write at once to the Director of Recruitment (Colonial Service), 15, Victoria Street, London, S.W.1, stating age, professional qualifications and experience. 999

**CITY OF OXFORD.  
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of a Temporary Architectural Assistant, in the Department of the City Estates Surveyor and Architect to the Education Committee.

The salary will be from £460 to £510 per annum, according to experience, exclusive of cost-of-living bonus (at present £59 16s. per annum).

Applicants should be Associate Members of the R.I.B.A., and have had experience of School Work.

Arrangements can be made, if desired, for renting housing accommodation.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, should be sent to the City Estates Surveyor, Town Hall, Oxford, not later than 31st March, 1947.

**HARRY PLOWMAN,**  
*Town Clerk.*

Town Hall, Oxford. 501

**CORNWALL COUNTY COUNCIL.**

Applications are invited for the following appointments, on the established staff in the County Architect's Department:—

**TWO SENIOR QUANTITY SURVEYORS.** A.P.T., Grade VII (£575-£650).

Preference will be given to applicants who are Members of the Surveyor's Institution (Quantities Sub-section), and fully experienced in the preparation of Bills of Quantities and in measuring up and in the settlement of final accounts.

**TWO SENIOR ARCHITECTURAL ASSISTANTS.** A.P.T., Grade V (£460-£510).

Preference will be given to candidates who are Associates, R.I.B.A.

**ONE ASSISTANT BUILDING INSPECTOR.** A.P.T., Grade II (£360-£405).

Applicants must have held a similar appointment and possess practical experience in the Building Trade.

**ONE ARCHITECTURAL ASSISTANT.** A.P.T., Grade II (£360-£405).

**TWO ARCHITECTURAL ASSISTANTS.** A.P.T., Grade I (£330-£375).

A cost-of-living bonus will be paid, at present at the rate of £59 16s. a year.

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

Forms of application may be obtained from the County Architect, County Hall, Truro, to whom applications must be sent not later than Monday, 24th March, 1947, accompanied by copies of three recent testimonials.

**E. T. VERGER,**  
*Clerk of the County Council.*

27th February, 1947. 502

**CROWN AGENTS FOR THE COLONIES.**

Applications from qualified candidates are invited for the following post:—

**QUANTITY SURVEYOR (Temporary)** required by the Government of Jamaica, Public Works Department, for one tour of three years in the first instance. Salary £750 a year. Free passages. Candidates not over 40 should be Chartered Quantity Surveyors, and be thoroughly experienced in Quantity Surveying in all its aspects. They must be capable of teaching junior staff in the work. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17667 on both letter and envelope. 938

**Architectural Appointments Vacant**

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

**HENRY C. SMART & PARTNERS, Architects,** 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required. 913

**SURVEYORS.**—London Architects have vacancies for Surveyors, with experience of war damage work; salary, £500-£625 per annum. Write, stating age, experience, and when free. Box 645.

**JUNIOR** (14-16) required in Chartered Architect's office; general office work, with prospects in profession. Clark, 44, Gt. Russell Street, W.C.1. Museum 4400. 888

**ARCHITECT'S ASSISTANT and JUNIOR ASSISTANT** required immediately in Wolverhampton office; experience in all classes of work essential. Apply, stating age, full particulars of experience, and salary required, to Box 859.

**SENIOR ARCHITECTURAL ASSISTANTS** required for Bristol office; permanent progressive appointments to experienced men able to act on own initiative, and prepared to travel extensively. Apply, Mackintosh & Partners, 11, Orchard Street, Bristol, 1. 860

**ARCHITECT'S ASSISTANTS** required in West Riding office of Resident Architect to large Multiple concern; well trained, good draughtsmen, able to handle large and small jobs from sketch plans to finish; good variety of work; salary £400 to £500 per annum, according to qualifications. Write, giving full particulars, to Box 872.

**CAPABLE ASSISTANT** required by Architect in W.C. London; state age, experience, and salary required. Box 884.

**ARCHITECTURAL ASSISTANTS** required; applicants must be good draughtsmen; salary according to qualifications and experience. Write, stating age, experience, and salary required, to T. F. Parker, Architect, Wisbech. 875

**VICTOR KERR & COLBOURN, F.R.I.B.A.** require Male ASSISTANT, of at least Inter. R.I.B.A. standard; surveys, working drawings, specifications; scope for initiative and responsibility; £300-£400 p.a., plus bonus. Write 7, Bedford Row, W.C.1. 874

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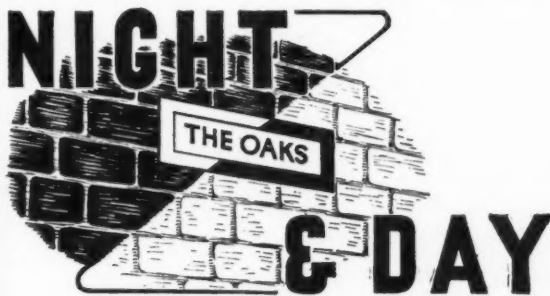
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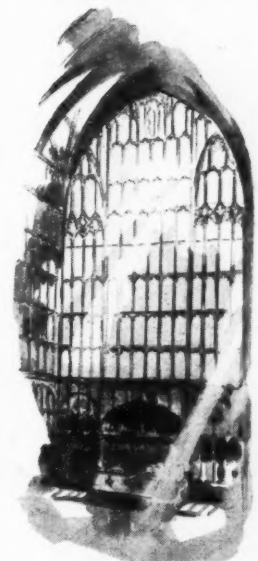
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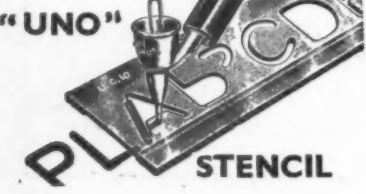
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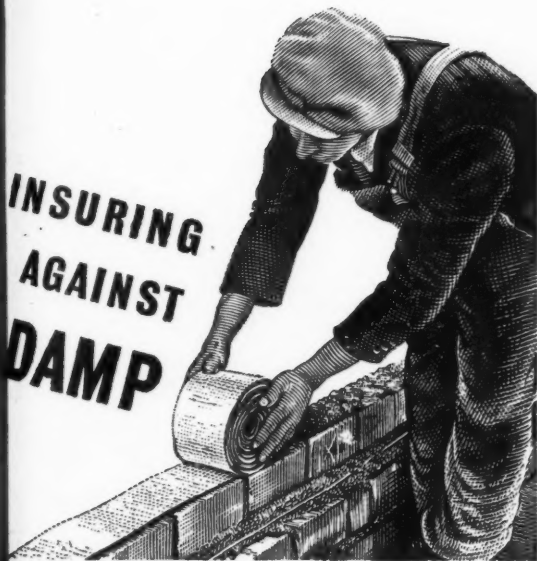
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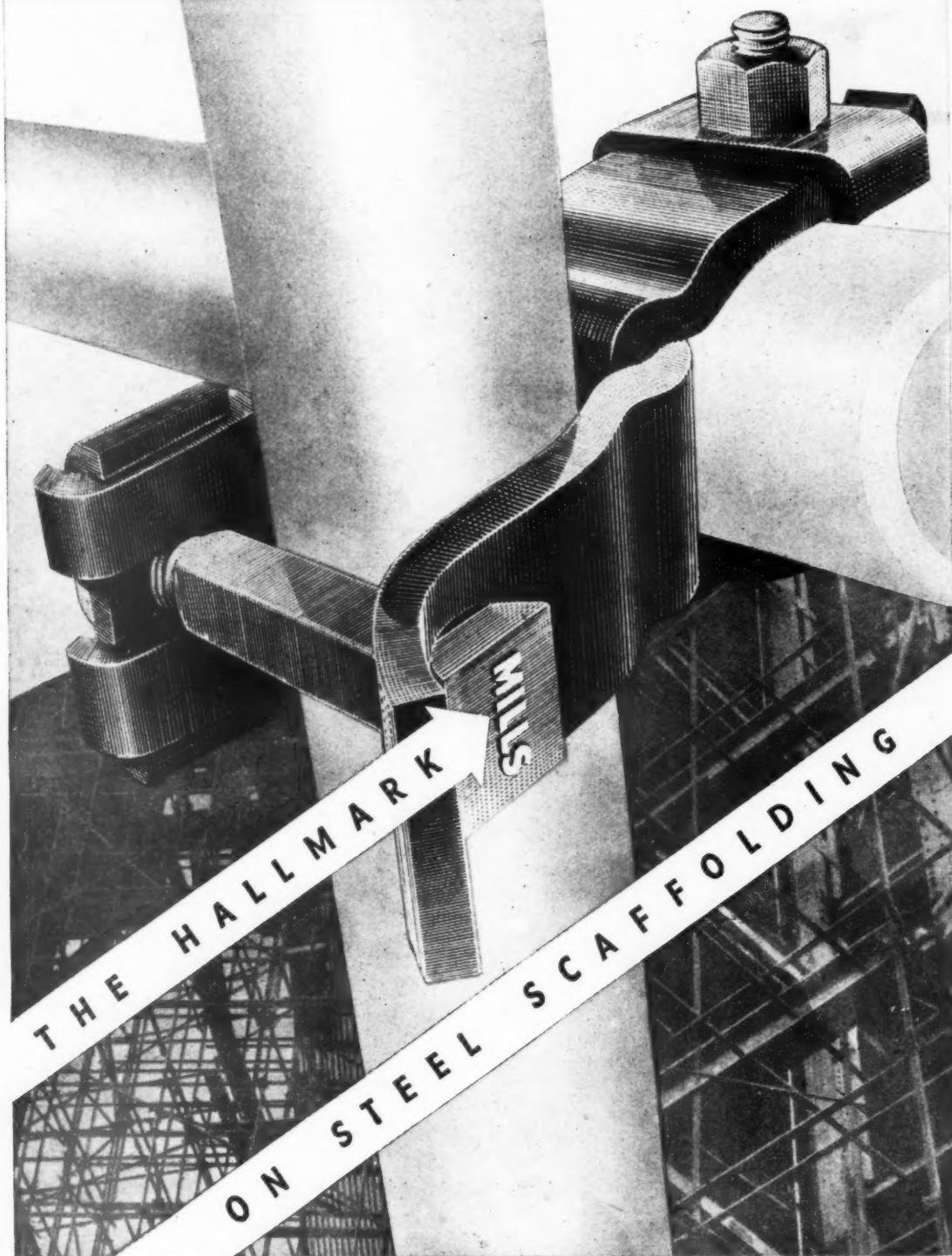
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