

# THE ARCHITECTS' JOURNAL



## standard contents

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

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to 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. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 14	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 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. Doldertal, 7, Zu rich, 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
CUCJ	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. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881

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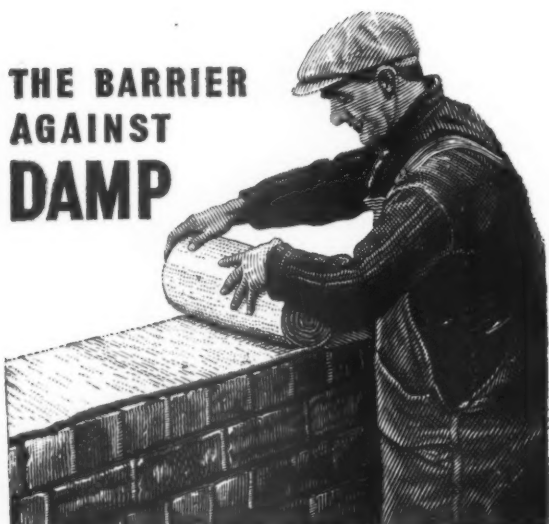
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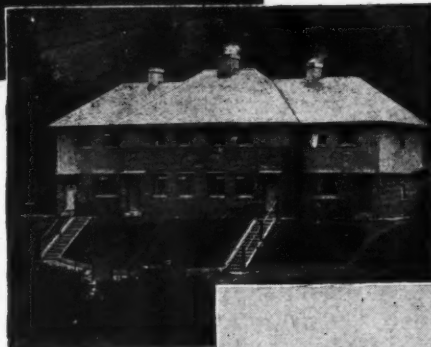
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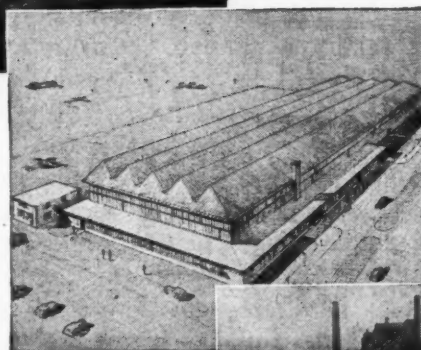
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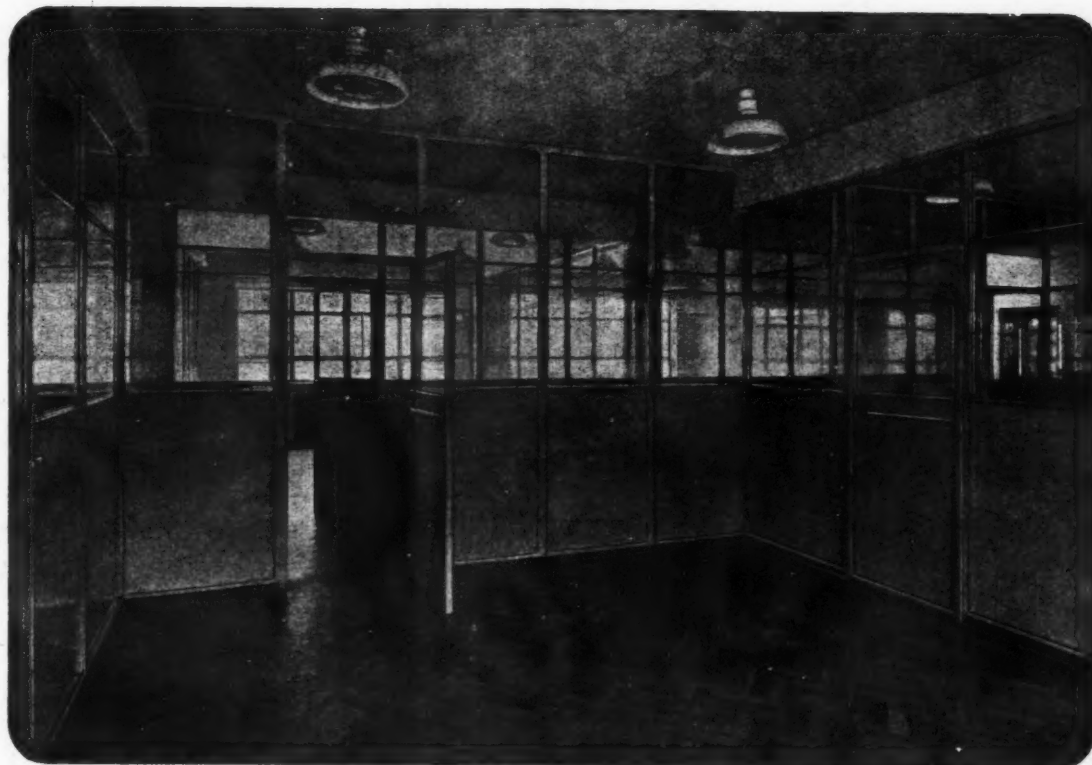
**A** *COPIOUS* supply of pure water is an amenity of our civilisation which we take for granted. Cut it off, or even curtail it, and domestic life becomes sadly disorganised. This confidence in our water supplies is a tribute to the excellence of our public services, behind which stand years of unremitting chemical and engineering research. Water in its natural state is often unfit for use, both owing to the presence of disease germs, and frequently to coarser impurities which make it look and taste unpleasant. Thanks to chemical research it is now possible to make water safe to drink by sterilising

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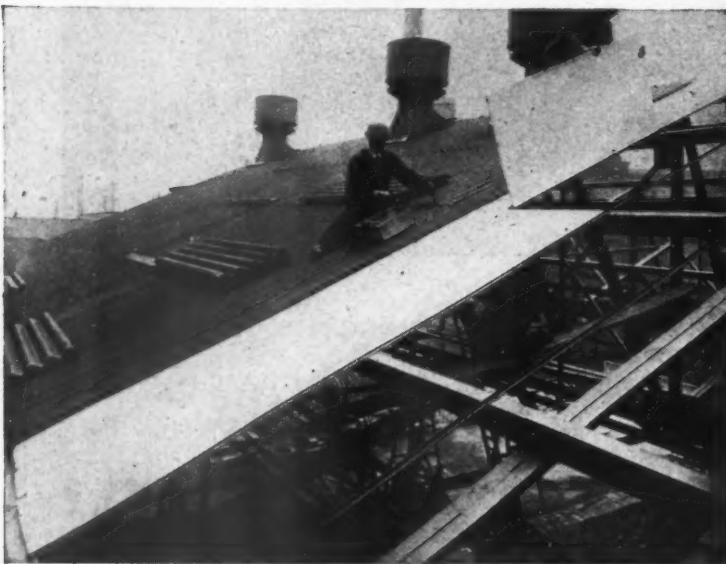


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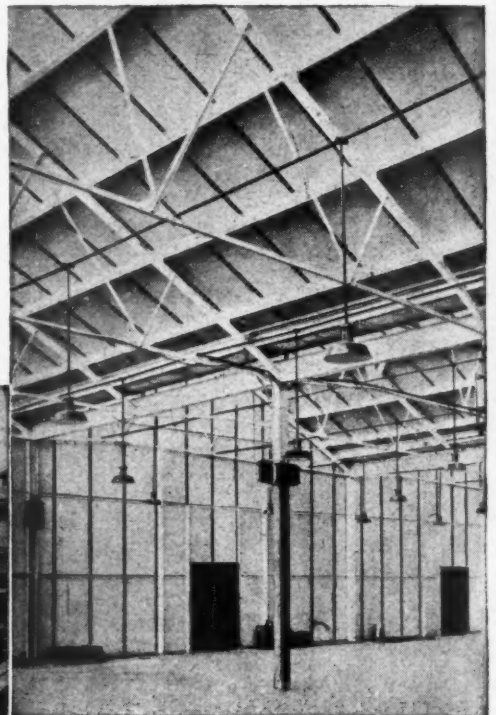
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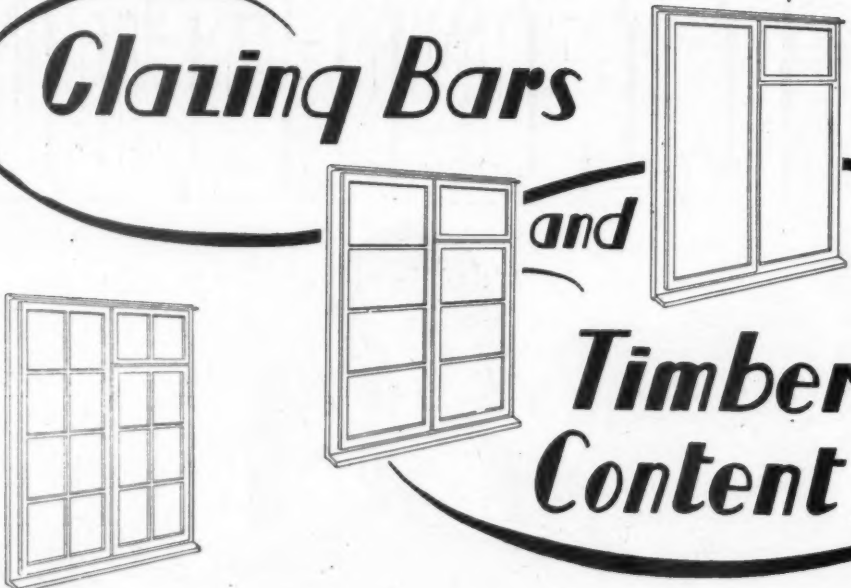
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The first figure gives the number of lights in width, the letters indicate the type, and the last two figures the height in feet and inches. Example—The window illustrated is type 2V46.

P — Plain (no vent).      N — Narrow.  
V — Vent.                      S — Sublight.  
T — Through Transom.

## TIMBER CONTENT in decimals of a standard.

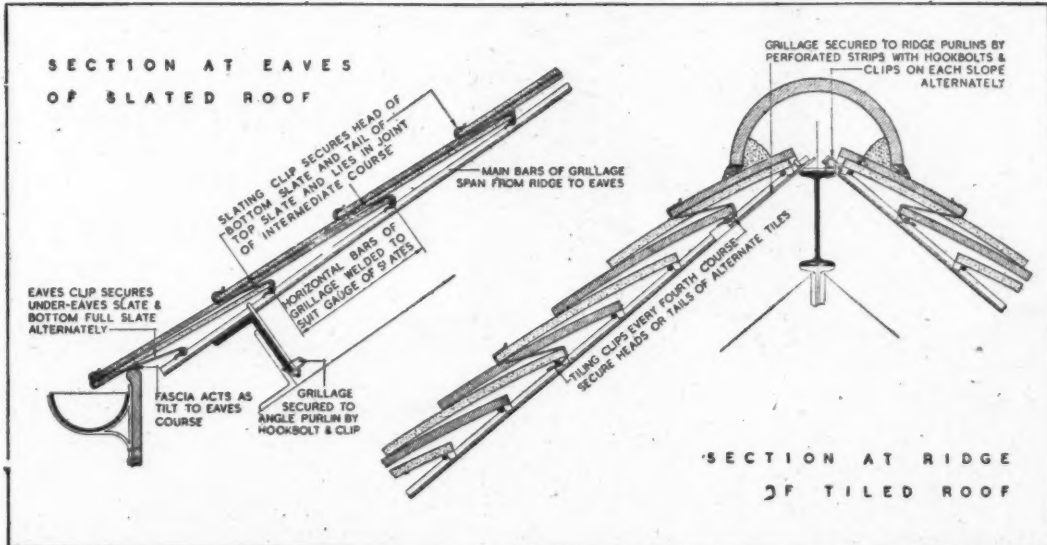
INP26	-004	-004	—
INP36	-005	-005	—
INV26	-004	-004	—
INV36	-004	-005	—
INV40	-004	-005	—
IP26	-005	-005	-006
IP36	-006	-006	-007
IP40	-006	-006	-007
IP46	-007	-007	-007
IV26	-005	-005	-006
IV36	-005	-006	-007
IV40	-006	-007	-008
IV46	-006	-008	-008
IT46	-008	-008	-009
IT50	-008	-009	-009
IP550	-008	-009	-009
2V26	-008	-009	-009
2V36	-009	-010	-011
2V40	-010	-012	-013
2V46	-010	-012	-013
2T46	-010	-013	-014
2T50	-010	-014	-015
2V550	-010	-014	-015
3P26	-010	-012	-012
3V36	-013	-015	-016
3V40	-014	-016	-017
3V46	-014	-017	-018
3T46	-015	-018	-020
3T50	-016	-020	-022
3V550	-016	-020	-022
4V36	-016	-020	-021
4V40	-017	-021	-023
4V46	-018	-023	-025
4T46	-018	-024	-026
4T50	-018	-026	-028
4V550	-018	-026	-028

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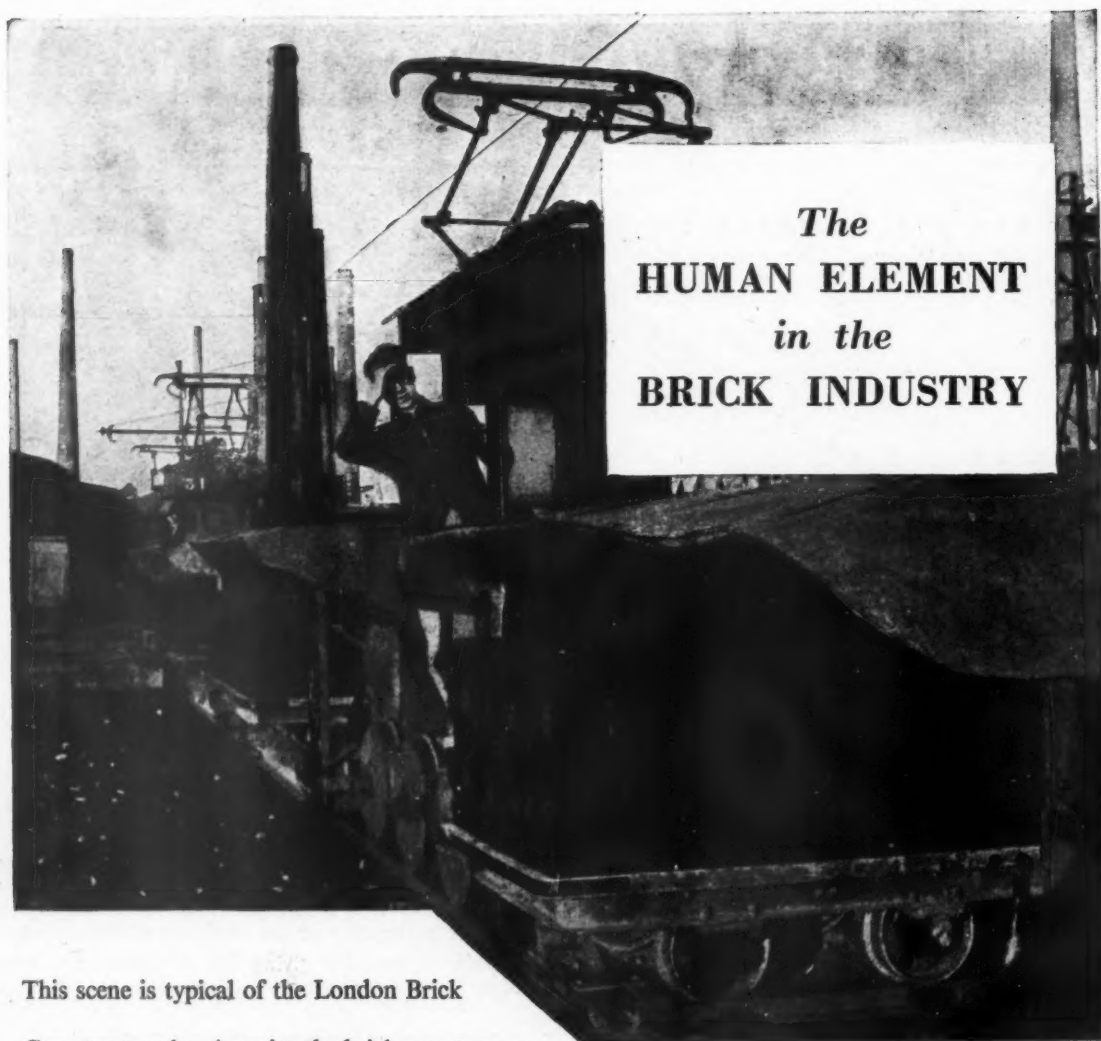
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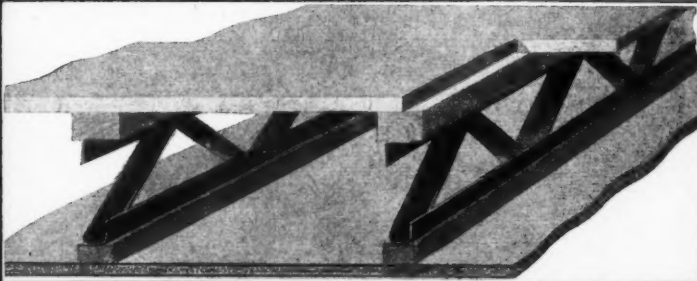
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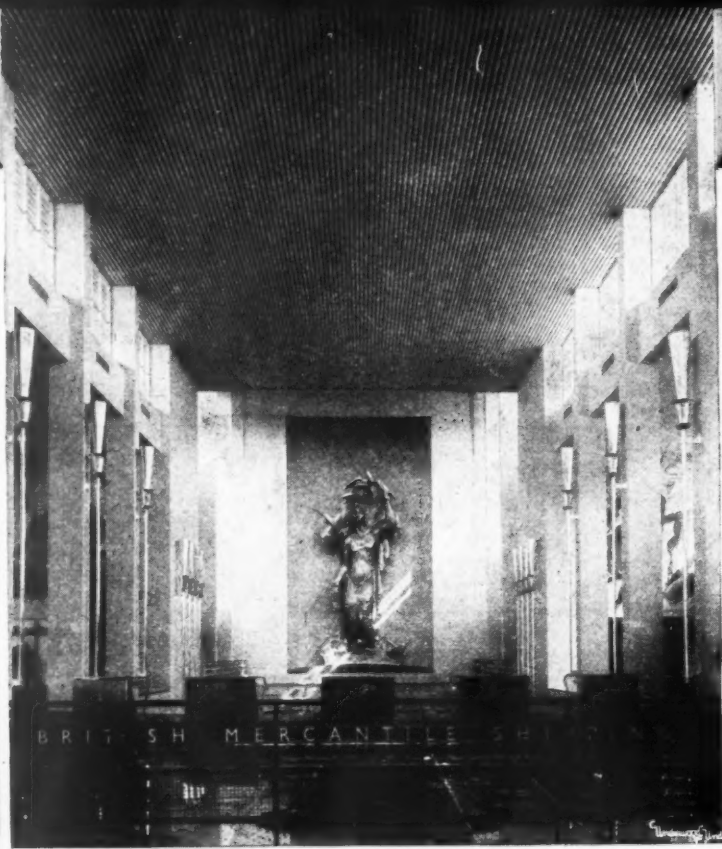
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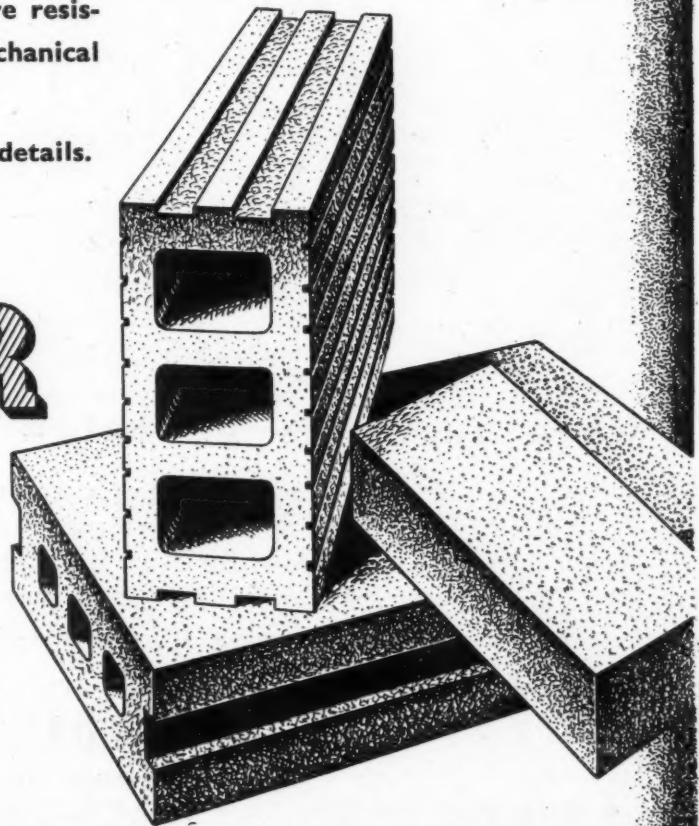
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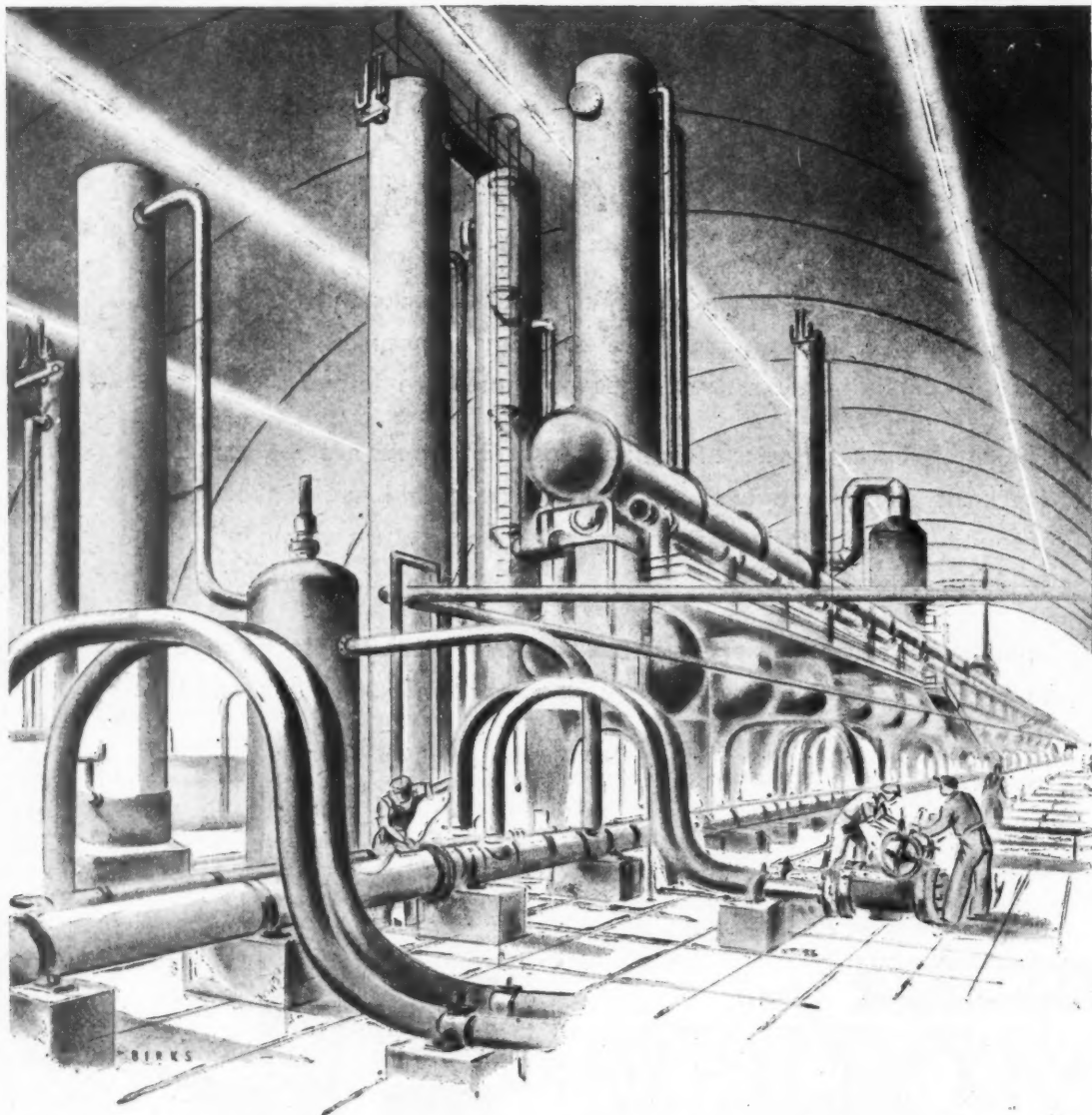
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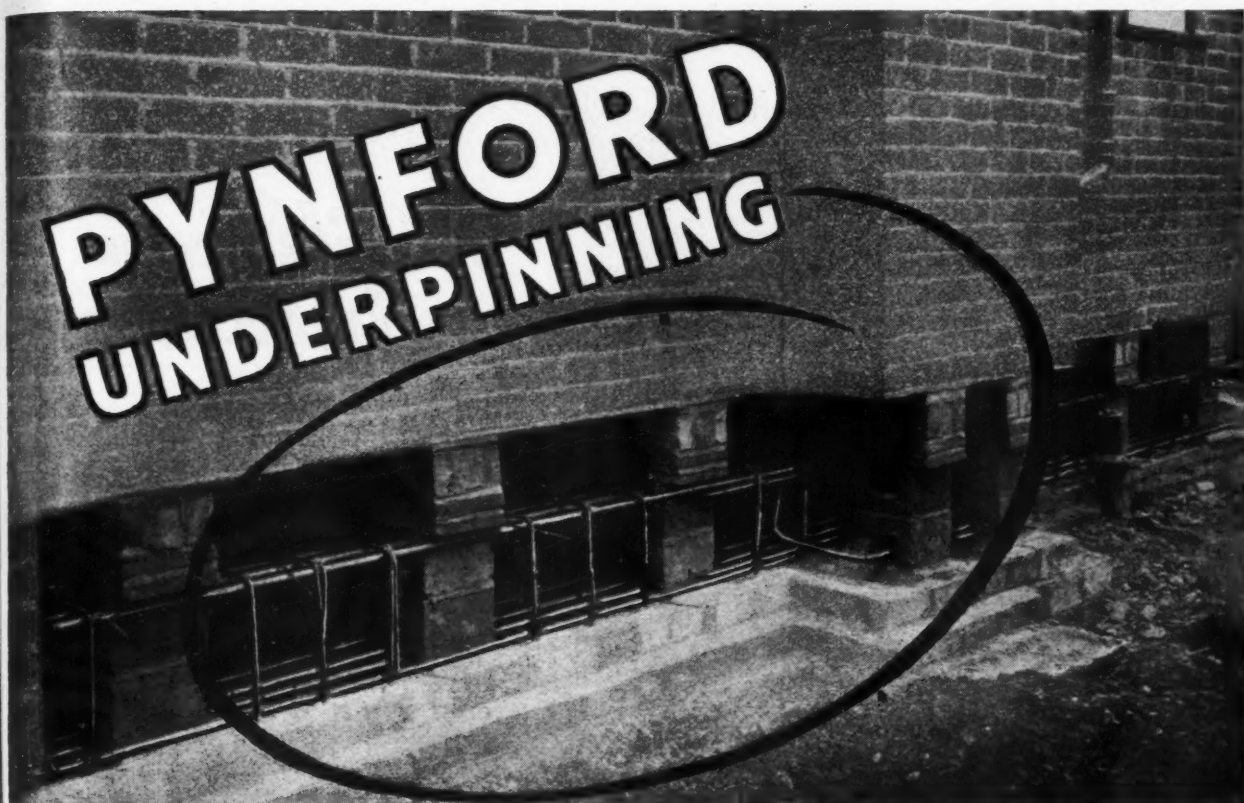
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easily, because***

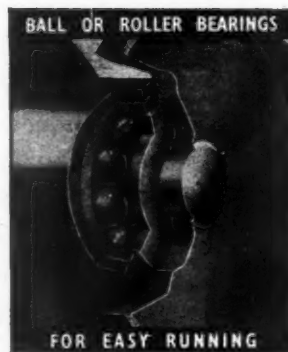
*it is fitted with King Sliding Door Gear. At a touch of the hand a King Sliding Door glides aside, swiftly, silently and smoothly, like mercury upon glass, or water upon the petal of a lily. Poetical words, but they have a very practical meaning: Always specify King Sliding Door Gear for trouble-free ease of operation, neat appearance and long life.*

# ★ **KING SLIDING DOOR GEAR**

For a gliding example of perfect smooth running consider a door which is fitted with King Sliding Door Gear. Years of careful study and experience have helped to place King Door Gear in the foremost position. No other make possesses all the valuable features which are incorporated in the King Product.

Stockists throughout the country have King Door Gear ready for immediate delivery.

**WRITE FOR ILLUSTRATED BOOKLET  
AND PRICE LIST.**



Other features of King Door Gear include: King-Alloy Rolled Steel Section. Domed Top sheds all moisture. Correct Trolley Clearance. Anti-rust finish. Flat treads for long life. Lateral movement for easy running. Tefalmit Pressure Lubrication.

**GEO. W. KING LTD., D.G.B. WORKS, HITCHIN, HERTS**

**PHONE: HITCHIN 960 (10 LINES)**

**"Rufflette"** BRAND

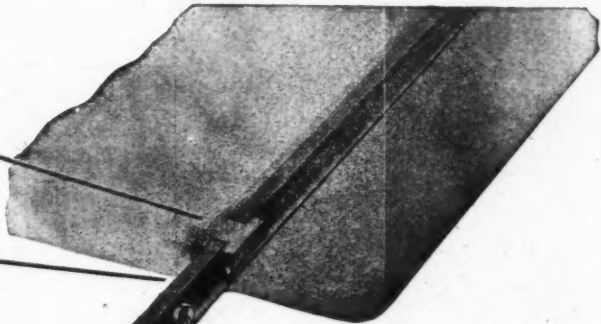
# RECESSED CURTAIN TRACK

PATENTED SPRING  
CLIP HOLDS RAIL IN  
CHANNEL WITHOUT  
SCREWS

THE RAIL BECOMES  
A CONCEALED AND  
PERMANENT FITTING

ALL PARTS ARE  
CORROSION-  
RESISTING

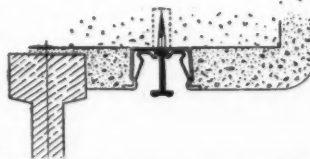
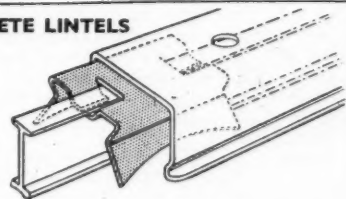
RAIL IS SUPPLIED  
COMPLETE WITH  
PATENTED CLIPS,  
RUNNERS AND END  
STOPS



**This 'Rufflette'  
RECESSED CURTAIN TRACK  
provides an integral and  
permanent fitting for the  
modern house**

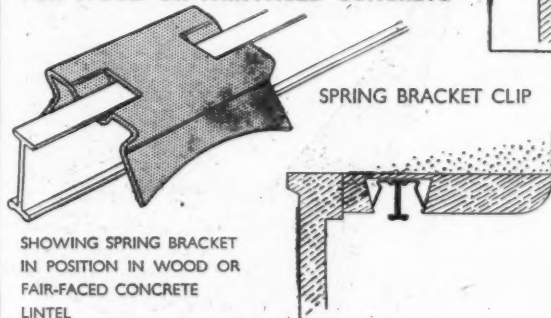
## FOR PLASTERED CONCRETE LINTELS

THIS STEEL  
CHANNEL STRIP  
HOLDS CLIP  
AND RAIL



SHOWING STEEL CHANNEL  
STRIP IN POSITION IN  
PLASTERED CONCRETE  
LINTEL

## FOR WOOD OR FAIR-FACED CONCRETE



SPRING BRACKET CLIP

SHOWING SPRING BRACKET  
IN POSITION IN WOOD OR  
FAIR-FACED CONCRETE  
LINTEL

The development of 'Rufflette' Recessed Curtain Track enables the architect to specify curtain rails for installation during building, and thus eliminates the damage to new wall and ceiling surfaces that so often results when the fixing of curtain rails is left to unskilled hands.

For full particulars and specification write:

**THOMAS FRENCH & SONS LIMITED, CHESTER ROAD, MANCHESTER 15**  
Factories: MANCHESTER, WYTHENSHAW AND FALL RIVER, MASS., U.S.A.  
London Offices: 156-162 Oxford Street, W.1. Also British Empire Building, New York City

## GETTING HOT WATER



Leonard Valves serving a range of wash-hand basins, range of showers and washing-troughs.



SHOWERS

The Leonard-Thermostatic Hot and Cold Water Mixer or Steam and Cold Water Mixer provides a simple and reliable method of supplying large quantities of warm or hot water at a steady temperature by blending hot and cold water or steam and cold water.

By means of a quick-acting thermostat the Valve delivers the blended water at the temperature selected and keeps it at this temperature in spite of pressure fluctuations in the supply. The temperature can be varied from hot to cold by a simple movement of the temperature control lever.



BASINS

If the cold supply fails the thermostat automatically throttles down the hot supply and avoids risk of damage. Leonard-Thermostatic Mixing Valves save water, save heat, save installation costs.

Where steam is available the Steam and Water Mixer is the best and by far the cheapest way of getting hot water. Leonard-Thermostatic Mixing Valves have been specified for all types of wash-rooms; for showers and hand-basins in schools, institutions and stores and for more specialised work in hospitals and clinics. In the industrial field Leonard-Thermostatic Mixing Valves are widely used for factory ablutions and for process work.



FOUNTAINS

Advice on proposed applications is provided by our Technical Staff or by qualified representatives in all parts of the country. Service is available in all industrial centres. Please write for Pamphlet.

★ WRITE FOR PAMPHLET  
QUOTING REF.: 2/1864

**Leonard-Thermostatic**  
MIXING VALVES (PATENTED)

Manufacturers:

**WALKER, CROSWELLER & CO LTD**  
CHELTENHAM, GLOS  
and 6 Gordon St London W.C.1



61-1864

# for PLYWOOD and PLYMAX VENESTA

Venesta Birch plywood had an exceptional reputation before the war. For nearly fifty years it had a consistency and standard upon which architects and builders could rely. It was precisely graded to suit particular jobs. It was extraordinarily versatile. It will return as good as ever.

**PLYMAX, THE METAL-FACED PLYWOOD  
IS AVAILABLE NOW**

Do you remember these Venesta Plywood grades? SPECNOT-SUMNOT  
PLUGNOT-MORNOT-BIGNOT

VENESTA LIMITED, Vintry House, Queen Street Place, E.C.4  
TELEPHONE: Central 3060



STEEL FRAMED PARTITIONS  
WITH SHEET STEEL PANELS

20' 0"

20' 0"

20' 0"

20' 0"

*here's the answer to  
the existing floor problem  
K.P.B.*

**COMPREHENSIVE  
FLOORING SERVICE**

**SEMTEX INDUSTRIAL  
FLOORS ARE:**

**EXTREMELY DURABLE**—stand up to heavy traffic over long periods—such as steel wheeled trolleys bearing heavy loads.

**FLEXIBLE**—do not crack or lift.

**QUIET**—mastic characteristic of floor damps traffic noise and vibration.

**COMFORTABLE TO THE FEET**



**JOINTLESS**—can be coved and are simply and rapidly laid between machines.

**NON-CORROSIVE**—there is nothing in the flooring which can set up corrosion of sub-floor.

**DUSTLESS**—under severe traffic conditions these floors will not lift, crack, chip or flake.

**LIGHT IN WEIGHT**—normal thickness  $\frac{1}{4}$ ", approximately 70 lbs. per square yard—unevenness can be levelled by increased thickness to  $\frac{1}{2}$ ".

**NON-SLIP**—even when wet.

**FIREPROOF**—all Semtex floors are fire-resistant and will not support combustion.

**ADHERE PERFECTLY**—to all normal sub-floors, including wood, concrete, steel and brick.

**INSTALLED QUICKLY**—laid cold; no fumes, fire risks, or discomfort.

**LAYING**—ready to receive traffic after 4 days, too rapid drying and hardening not encouraged. Repairs necessitated by movement of machinery easily carried out, new materials bonding perfectly.

**SMOOTH SURFACED**—no surface grinding, no dust. Special laying machine swiftly consolidates floor simultaneously imposing smooth level surface.

**SEMTEX FLOORS ARE LAID ONLY BY SKILLED SEMTEX CRAFTSMEN**

**SEMTEX LTD.**

A DUNLOP COMPANY  
15-16 NEW BURLINGTON ST.  
LONDON, W.1. Tel.: REGENT 7526

Branches at: Aberdeen, Belfast, Birmingham, Bristol, Glasgow, Hull, Leeds, Liverpool, Manchester, Newcastle, Nottingham, Southampton, Stirling, Salford, Exeter.

**SEMTEX**  
**JOINTLESS INDUSTRIAL FLOORS**  
Mechanically Consolidated

STEEL

OF METAL PANELS

RECONSTRUCTION OF MAIN BUILDING

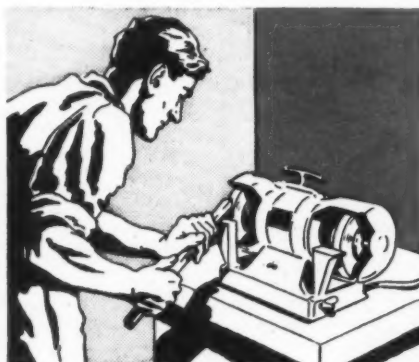
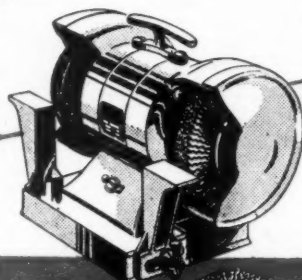


## Branching out

"One thing about the guv'nor — he doesn't let the grass grow under his feet! We've got Black & Decker Bench Grinders now . . . Use 'em for a thousand-and-one different jobs . . . and as for speed, they put the old grind-stone right in the shade!"

Tool sharpening, buffing, wire brushing, general grinding . . . these are the jobs awaiting a B & D Bench Grinder, on the site as well as in the workshop. Accessories include spindle-extensions and a full range of grinding wheels, wire wheel brushes and rag buffs. All models are fitted with rubber feet, and can be supplied with pedestal mounts. Included also in the Black & Decker range are Portable Grinders, Sanders, Hammers, Screwdrivers, Drills and 'Hole-saws', the 'Lectro-shear' and the 'Ripsnorter' Saw.

Obtainable only from B & D Distributors



Quicker and better with

# Black & Decker

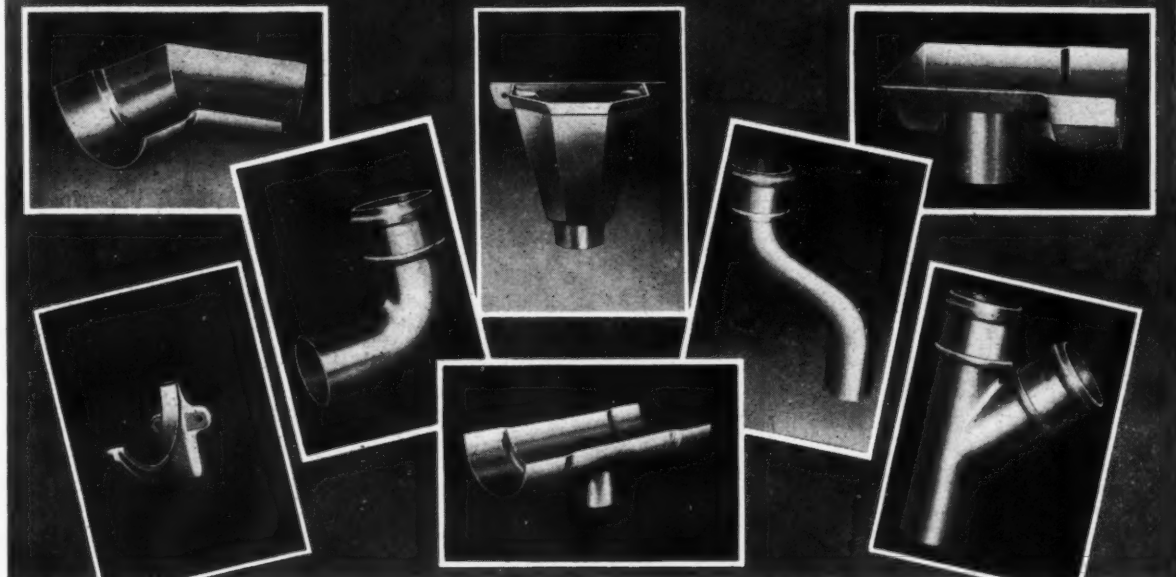
PORTABLE ELECTRIC  
TOOLS  
FOR THE  
BUILDING TRADE

'Phone: West Drayton 2681/6 'Grams: 'Blacdecker', West Drayton

BLACK & DECKER LTD · HARMONDSWORTH · MIDDX  
LONDON · BIRMINGHAM · BRISTOL · GLASGOW · LEEDS · MANCHESTER · NOTTINGHAM

Smeets B.B.S.

# Cast Aluminium



Once you have handled "BIRMID" rain-water goods you will realise what really great advantages cast aluminium alloy has for this purpose. Here are some pointers :

**Breakages in transit and on site reduced to NIL** ● Pipes and gutters easily and cleanly cut by hack saw ● Fittings and gutters are die-cast; the pipes are drawn tube ● The shapes are perfectly accurate and every piece is an exact fit ● Plumbers like to handle this light-weight material ● Down-pipes withstand freezing without fracture ● Householders appreciate the lasting qualities and the freedom from rust stains

"BIRMID" RAIN-WATER GOODS ARE THE JOINT PRODUCTION OF THREE ASSOCIATED COMPANIES: BIRMINGHAM ALUMINIUM CASTING (1903) CO. LTD., STERLING METALS LTD., BIRMETALS LTD.

"BIRMID" rain-water goods are sold to the trade through the following main Distributors:-

**WIGGINS-SANKEY LTD.**  
LYSIA STREET, FULHAM, LONDON, S.W.6  
**HOOPER & ASHBY LTD.**  
BRITANNIA WHARF, SOUTHAMPTON  
**METAL AGENCIES LTD.**  
COLSTON STREET, BRISTOL, 1  
**ROWE BROS. & CO. LTD.**  
PALL MALL, LIVERPOOL, 3  
**A. D. FOULKES LTD.**  
LUDGATE HILL, BIRMINGHAM, 3  
**J. M. & J. BARTLETT**  
3-4, HIGHAM PLACE, NEWCASTLE-ON-TYNE, 1  
**THOMAS GRAHAM & SONS LTD.**  
19, YORK STREET, GLASGOW, C.2

**HENRY SMITH (MERCHANTS) LTD.**  
104, WITHAM, HULL  
**GUNTONS OF NORWICH**  
30-42, ST. GEORGE STREET, NORWICH  
**SMYTHE BROS. (IPSWICH) LTD.**  
56, 58, 83, 95 and 87, FORE STREET, IPSWICH  
**RANDALLS LTD.**  
20 and 22, ST. MARY'S STREET, BEDFORD  
**CYRIL RIDGEON & SON LTD.**  
TENISON ROAD, CAMBRIDGE  
**JOHN FORSYTHE LTD.**  
24/26, GREAT GEORGE'S STREET, BELFAST

**BIRMID RAIN-WATER GOODS**  
BIRMID WORKS · SMETHWICK 40 · STAFFS.





# DURALUMIN

REGD TRADE MARK

## *Strength & Lightness*

A web of silk and a metal, both a source of wonder to many, and having this in common—lightness and great strength. "DURALUMIN" the light metal alloy—a third the weight of steel yet as strong, easy to work and in ample supply—has proved its worth to British industry in a great variety of ways. Our wide experience is gladly at your service; write to:—



JAMES BOOTH & COMPANY LIMITED, BIRMINGHAM, 7



*This is the first of a series of informative advertisements which are intended to show how the various models of SIESTA STOVES can be incorporated to best advantage in Heating Schemes.*

# PLANNED HEATING . . .

## Using the 3D SIESTA to provide—

Space heating for one living room.

Convected heat to two bedrooms and kitchen.

Adequate hot water for domestic purposes and a towel rail.

The diagram shows a typical installation for fully utilising the heat output of the 3D SIESTA. Alternative schemes are, of course, possible, and we shall always be pleased to advise on the most suitable installation for specific conditions.

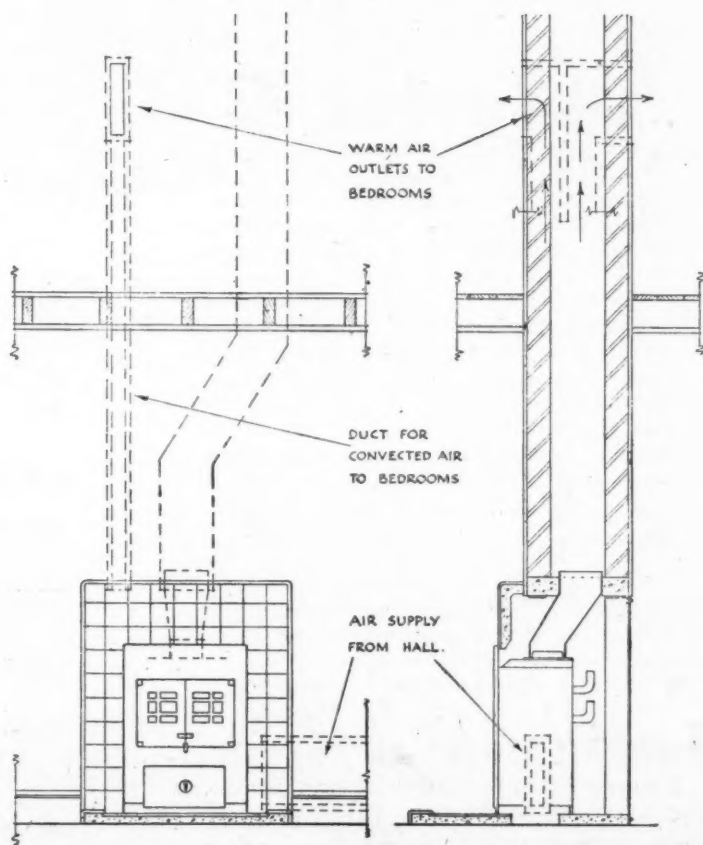
The 3D SIESTA burns coke, anthracite, coal or commercial fuels. It is finished in fine quality vitreous enamel, available in brown, green, stone mottle or black.

Simple and effective air control is provided on the ashpit front and fine adjustment can be obtained to give the range of burning rates required for overnight and daytime.



A special feature of the 3D Model is the way the doors disappear into the body of the stove when opened.

### DETAILS OF FIXING



PARK FOUNDRY BELPER DERBY



## ... use **Bostik "C"**

Bostik "C" is not a general purpose Adhesive, it is one of a whole series—each designed to make vice-like resilient joints between particular materials. Bostik "C" Adhesive is one of the grades of Bostik used for sticking Rubber and similar materials to metal. For special purposes, as for instance where oil resistance is required, "Boscoprene" Self-vulcanising Adhesives are used. As with Bostik so with Boscoprene Adhesives there is a whole series—each designed to give the best results in varying conditions. Not only do Bostik adhesives provide a powerful resilient joint that lasts and lasts, but, by using the appropriate grade the joint can be made resistant to water, to petrol, or oil.

Write to-day for further interesting information.

The **BOSTIK MAN** who represents our technical and research departments is at your service. Call him in to advise on any problem of adhesion and sealing.



## **Bostik** SERIES OF ADHESIVES

★ The word "Bostik" is a registered trade mark of B.B. Chemical Co. Ltd.

THE B.B. CHEMICAL CO. LTD., LEICESTER

See our exhibit at the Building Centre, 9, Conduit Street, W.1.

# ★ for **STRUCTURAL Insulation:**

## **WOOD WOOL BUILDING SLABS**

The unique advantage of insulating with Wood Wool slabs is that they have not to be added to conventional building materials, they are a permanent building material in themselves. They combine structural strength with unusual lightness. They are large in unit size, yet convenient to handle, can be sawn or cut to any shape or size with ordinary woodworking tools. Wood wool slabs can be used for walls, partitions, ceilings, roofs, for permanent shuttering in concrete construction: they are rot-proof, vermin-proof, fire-resistant and will take any suitable surfacing: plaster, rendering, bitumen, etc.

Enquiries should be addressed to the members of the Wood Wool Building Slab Manufacturers' Association whose trade names and addresses are given below.

- |                       |  |
|-----------------------|--|
| <b>GYPKLITH</b> . . . | Gyproc Products Ltd.,<br>Westfield, Upper Singlewell Road,<br>Gravesend. Telephone: Gravesend 4251.    |
| <b>MARLITH</b> . . .  | The Marley Tile Co., Ltd.,<br>Riverhead, Sevenoaks, Kent.<br>Telephone: Sevenoaks 2251.                |
| <b>THERMACOUST</b> .  | The Cementation Co., Ltd.,<br>Thermacoust Dept., 39, Victoria Street,<br>S.W.1. Telephone: Abbey 5726. |
| <b>LITHALUN</b> . . . | Lithalun Products Ltd.,<br>Pontalun, Bridgend, Glam.<br>Telephone: Bridgend 213.                       |

W.W.22



**B**efore 1882 the outlook at the Royal Mint was pretty dim. That year the existing crude lighting arrangements gave way to the brilliant new electric lamps—lighted by P & G and E.P.S. batteries—and things began to look brighter. This was one of the first of many important public buildings lit by these famous batteries from that year onwards. A modern installation is that in Trades House at Glasgow. Here P & G and E.P.S. cells stand ready for any emer-

gency should normal mains lighting fail.

Plans for any building intended to accommodate a large number of people should include an emergency lighting system as standard equipment. Risk of pilfering, panic or even disaster consequent upon mains failure is thereby avoided. P & G and E.P.S. cells embody 60 years' manufacturing experience. The system can be made 100% automatic. We shall be glad to advise on any project.

**PRITCHETT & GOLD and E.P.S. CO. LTD.**

*Formerly The Electrical Power Storage Co. Ltd.—the first Battery makers*

"CHARLTON" ELECTRIC STORAGE WATER HEATERS

"HIGHLOW" IMMERSION HEATERS



# J. & P. Branches are B.N.E. Branches

Make your enquiries about B.N.E. domestic appliances at your nearest J. & P. Branch—it is there to give you service and its staff is anxious to help you. Specialist domestic engineers are available to advise on water heating, space heating, cooking and other applications of B.N.E. domestic appliances. There are J. & P. Branches at:—

LONDON: Columbia House, Aldwych, W.C.2  
BIRMINGHAM: Suffolk House, Suffolk St.  
BRADFORD: 6 Town Hall St.  
BRISTOL: 47 Broadmead  
CARDIFF: 10 Westgate St.  
GLASGOW: 205 Bothwell St.  
IPSWICH: 5 Arcade St.  
MANCHESTER: Norfolk House, Norfolk St.  
NEWCASTLE: 24-28 Stowell St.  
PORTSMOUTH: 88 St. Thomas St.  
BELFAST: 38 Bedford St.

We also have Branches and Agents throughout the World

**BRITISH NATIONAL ELECTRICS LIMITED**  
— Domestic Appliances —  
NEWARTHILL • MOTHERWELL • SCOTLAND

B.N.E. Ltd., (Incorporating Archibald Low Electrics Ltd. and J.P. Tubular Heater Co. Ltd.)  
is the Domestic Appliances Section of  
**JOHNSON & PHILLIPS LTD.**

"BRITISH NATIONAL" ELECTRIC COOKERS AND FIRES

"J.P." SPACE HEATING EQUIPMENT

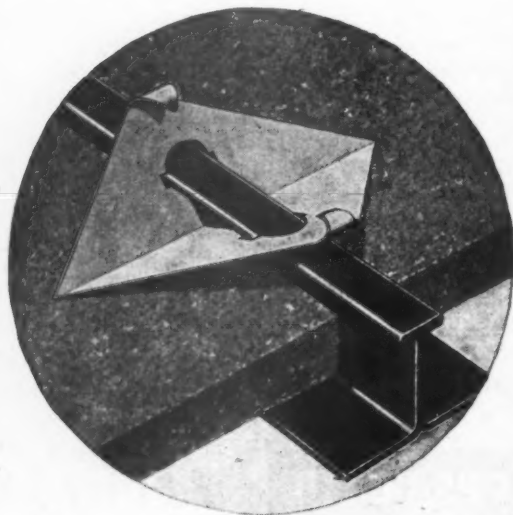


## OF BUILDING BOARD FIXING

definitely increased with the

**SUNDEALA**

# METAL "V" CLIP



Save time in erection of interior wall and ceiling boards by using this simplest of all fixing methods. Without the use of screws, bolts or special tools, fixer has only to slide "V" clips on the flanged T bar illustrated, fix latter to purlins with hangers provided, insert board under clips and the job is done! There is no time lost due to awkward fixing in confined spaces since the clips are fixed to the T bars on the bench before erection.

Full details and information sheet on request.



**SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, LONDON, W.C.2.** Tel: CHAncery 8159. Works: Sunbury-on-Thames, Middx.  
**GLASGOW:** Baltic Chambers, 50 Wellington St., G.2. **NEWCASTLE-UPON-TYNE:** Northumbria House, Portland Terrace, Jesmond, 2.

Members of Building Board Manufacturers' Association.





Oak—one of the many fine woods used by this Company  
to produce work of which the Industry can be proud.

The  
**Midland Woodworking  
Company Ltd**

MELTON MOWBRAY

*Craftsmen in Domestic Joinery*



The illustration shows some of the furniture supplied for the Reception Room at the Travel Association—66 Whitcomb Street, W.C.2. The waxed oak bookcases and tables were specially designed and made by Heal's. The desk and table tops are covered in a brown plastic material.

## Furniture for Special Needs

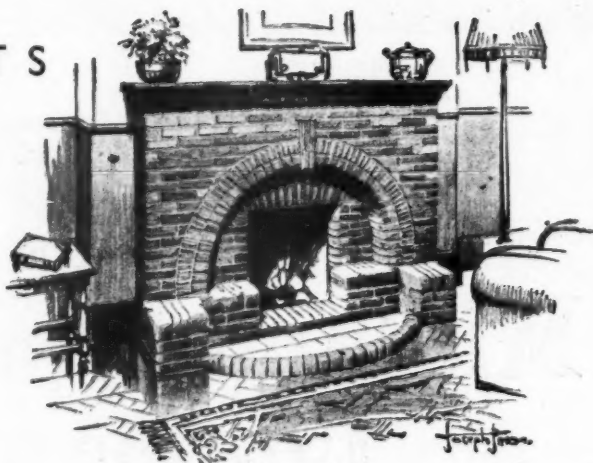
Whether you are building, re-building or converting existing buildings, furniture and furnishings are sure to be needed. At Heal's we specialize in the furnishings of institutions, hotels, restaurants, schools and colleges, and in these days of short supplies and restrictions we are in a position to help you to solve your problems. We are always pleased to work in collaboration with your architect or to create original schemes in our design office. Why not consult us?

## HEAL'S CONTRACTS LTD

196 TOTTENHAM COURT ROAD • LONDON • W.1

## ARCHITECTS requiring

details of old English Fireplaces that are available in a wide variety of designs for harmonising with all styles of architecture, or who prefer that their own designs for fireplaces be executed skillfully and faithfully by experienced craftsmen are invited to use the Claygate Service.



The latest catalogue of original Claygate designs for fireplaces is profusely illustrated and contains all essential information for architects. A copy will be sent, post free, on request. Quotations for special designs readily supplied.

## Claygate OLD ENGLISH FIREPLACES

CLAYGATE FIREPLACES LTD., 7, CLAYGATE, SURREY

# Invisible Panel Warming



- Invisible Panel Warming is the modern method of heating and its advantages have been proved in over 1,000 important buildings in this country.
- It gives a healthy, clean and even heat.
- It is economical—a feature of great importance.
- That Invisible Panel Warming in the ceiling leaves the whole floor and wall area free is shown in the Illustration of a Hospital Ward furnished and unfurnished.
- It is important to decide on Invisible Panel Warming at an early stage when planning the new permanent buildings.
- Any member listed below will be pleased to supply detailed information.

For technical and further particulars apply to any of the following :—

ASHWELL & NESBIT, LTD.,  
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& ENGINEERING CO. LTD.,  
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JEFFREYS, J. & CO. LTD.,  
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195/203 Waterloo Road,  
London, S.E.1

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London, W.C.1

YOUNG, AUSTEN & YOUNG LTD.,  
8/9 Long Acre,  
London, W.C.2

or to the Secretaries, Invisible Panel Warming Association, Pinners Hall, Austin Friars,  
London, E.C.2 Phone: London Wall 4286

Issued by the

**INVISIBLE PANEL WARMING ASSOCIATION**

formed to promote and to exchange and codify technical information.

**Invisible  
Panel Warming  
Association**



## the new *leather plastic* flooring

Ritzide is a jointless flooring with a high bituminous content and as a result is unusually resilient. Luxurious in appearance, Ritzide Flooring is particularly indicated where exceptionally severe conditions of wear are to be expected—in factories, public buildings, licensed premises, cinemas, private dwellings. Ritzide is fire-proof and damp-proof; self-polishing; non-cracking and non-slip.

Available in a wide range of attractive designs and colours. Ritzide offers the architect the most modern and effective expression of flooring to conform with the new plastic age.

Samples and Prices sent gladly on request.

## *Ritzide* the PLASTIC FLOOR of the future

Leatherflor Ltd., Finsbury Pavement House, 120 Moorgate, London, E.C.2. Phone: MONARCH 1155  
Works: Inch Mill, Arbroath, Angus, Scotland.

## Through **THICK** and **THIN**—

### LION WATERPROOF DRAWING INKS

From thick lettering and solid blockwork to the finest line drawing or design, Lion Waterproof drawing inks consistently give the best results for the varied needs of engineers, architects and draughtsmen.

Lion inks will not clog the pen, remain free-flowing to the last drop and give an intense black line which is specially suitable for photo-printing. They are also made in a wide range of colours: a colour chart will be gladly sent on request.

A good design demands a good ink—specify Lion inks for your drawing office.



## HARPER & TUNSTALL LTD. LETO WORKS, EDGWARE, MIDDLESEX.

Telephone: EDGware 4455.

Telegrams: OFTERIAL, EDGWARE.

LONDON  
39, Victoria Street, S.W.1.

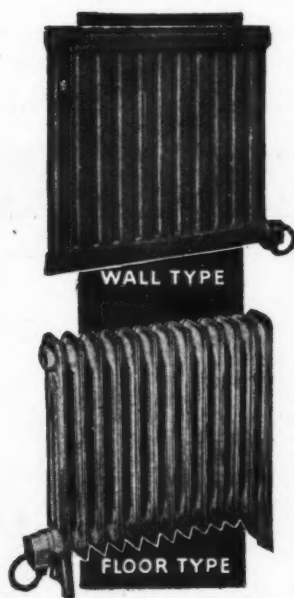
BIRMINGHAM  
3, Gt. Charles Street, Birmingham, 3.

GLASGOW  
221, St. Vincent Street, Glasgow.



# For the first time – **HERMETICALLY SEALED OIL**★ to diffuse electric heat

With oil, in place of water, hermetically sealed by the patent Hurseal method, a radiator becomes absolutely safe and trouble-free. No air vent, no refilling, no attention at all is necessary. Heating the oil electrically eliminates all the difficulties of central heating. Thermostatic control ensures that there's—



not a watt wasted with

# Hurseal HEATERS

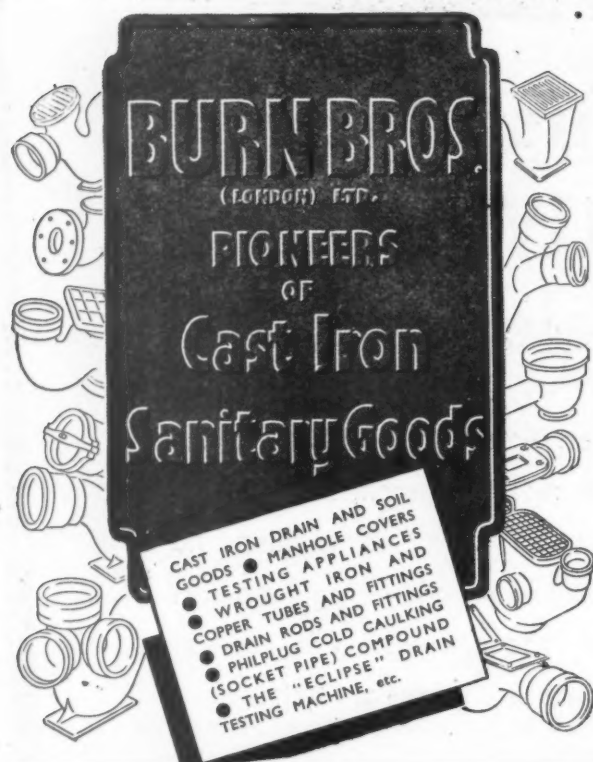
Patent No. 542267

HURSEAL HEATERS ARE  
AVAILABLE FOR EXPORT  
WITHOUT RESTRICTION.  
CONSULT US FOR HOME  
MARKET REQUIREMENTS.

★ The use of hermetically sealed oil as a heat diffusing medium was originally conceived and patented by Hurseal. This trade mark is your protection against inferior imitations:—



ALL ENQUIRIES TO : HURSEAL LTD., 106 REGENT ST., LONDON, W.1: REGENT 1267



**BURN BROS.**  
(LONDON) LTD.  
PIONEERS  
OF  
Cast Iron  
Sanitary Goods

CAST IRON DRAIN AND SOIL  
GOODS • MANHOLE COVERS  
• TESTING APPLIANCES  
• WROUGHT IRON AND  
COPPER TUBES AND FITTINGS  
• DRAIN RODS AND CAULKING  
• PHILPLUG COLD COMPOUND  
(SOCKET PIPE) COMPOUND  
• THE "ECLIPSE" DRAIN  
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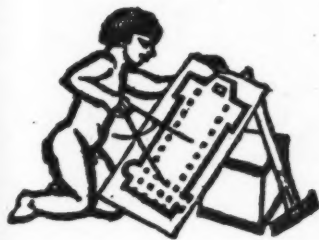
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## DIARY FOR AUGUST SEPTEMBER AND OCTOBER

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.

**BRISTOL.** *Building Science Exhibition.* At George Wills Museum. (Sponsor, DSIR.) OCT 20-NOV. 1

**CAMBRIDGE.** *Timber Technology Instructor's Course.* At Cambridge University, under the direction of E. H. B. Boulton, Technical Director and Education Secretary of TDA. Among the lectures to be given are: Dr. W. P. K. Findlay, *Fungi*; R. Goat, *Mensuration*; P. Harris, *Sawmilling*; E. Pinto, *Adhesives*; P. O. Reece, *Mechanical Properties of Timber*; W. C. Stevens, *New Aspects of Seasoning*. (Sponsor, TDA.) UNTIL AUG. 23

*Building Science Exhibition.* (Sponsor, DSIR.) UNTIL AUG. 30

**CARDIFF.** *Building Science Exhibition.* (Sponsor, DSIR.) SEPT. 29-OCT. 11

**EDINBURGH.** *Enterprise Scotland 1947.* An exhibition of industrial design. At the Royal Scottish Museum, Edinburgh. (Sponsors, Scottish Committee of the CID.) AUG. 25-SEPT. 30

*Architecture in Scotland.* At George Heriot's School, Lauriston Place. (Sponsor, ACCB.) AUG. 25-SEPT. 8

**LONDON.** *Exhibition of Colombo Cathedral Competition Designs.* The winning and other designs entered in the competition for the proposed Cathedral of the Holy Cross, Colombo, Ceylon. At 6-8, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) Monday to Friday from 9.30 a.m. to 5.30 p.m., Saturday from 9.30 a.m. to 12.30 p.m. AUG. 25-30

*Settings for Pictures.* A display of pictures in settings of antique and modern furnishing. At Heal's, 196, Tottenham Court Road, W.1. UNTIL SEPT. 1

*Industrial Wales.* An All-Wales and Monmouthshire Exhibition. At Olympia. The main purpose of the exhibition is to make more widely known the importance of Wales as an existing and potential industrial centre, and to demonstrate the wide variety of products now manufactured there. (Sponsor, Industrial Association of Wales and Monmouthshire.) AUG. 28-SEPT. 13

*Exhibition of Work by Candidates for RIBA (Archibald Dawson) Scholarships.* At RIBA, 66, Portland Place, London, W.1. The Scholarships are intended to foster the advanced study of all forms of construc-

tion, and are tenable at the Schools of Architecture recognized for exemption from the examinations of the Royal Institute. (Sponsor, RIBA.) 10 a.m.-7 p.m. (Sat. 10 a.m.-5 p.m.) SEPT. 8-15

*"The Miner Comes to Town" Exhibition.* At the C.O.I. Exhibition Centre, Marble Arch. There will be nine sections dealing with all aspects of the mining industry. (Sponsor, COI for MFP and NCB.) SEPT. 11-OCT. 23

*Exhibition of Architectural Lettering.* At Friends House, Euston Road, N.W.1. 3-6 p.m. *English Monumental Sculpture*, a talk by Frederick Burgess, A.R.C.A. Percy Delf Smith, R.D.I., the President, in the chair. (Sponsor, The Guild of Lettering Craftsmen.) SEPT. 27

*Course of Lectures. School Planning and Construction.* At the RIBA, 66, Portland Place, W.1. The course will be open to members of the RIBA and of allied Societies and, in addition, the Clerks to Local Authorities will be invited to nominate professional representatives to attend. (Sponsor, RIBA.) OCT. 23-25

*Twenty-second Building Exhibition, 1947.* at Olympia. (Sponsors, H. Greville Montgomery, A.R.I.B.A. (HON.) and Hugh R. C. Montgomery, M.C.) NOV. 19-DEC. 4

**MAIDSTONE.** E. H. B. Boulton. *Timber, Its Properties, Defects, Preservation and Uses.* At the Maidstone Technical Institute. (Sponsor, South-Eastern Society of Architects, Tunbridge Wells Chapter, Maidstone Group.) 7 p.m. SEPT. 17

**SOUTHAMPTON.** *Building Science Exhibition.* At the Art Gallery, Civic Centre. (Sponsor, DSIR.) SEPT. 6-20

**THE HAGUE.** *Fuel Economy Conference.* Particulars from the British National Committee, World Power Conference, 201-2, Grand Buildings, Trafalgar Square, London, W.C.2. SEPT. 2-9

**WESTON-SUPER-MARE.** *Exhibition of Plans and Models for the Redevelopment of the Borough by Clough Williams-Ellis and Lionel Brett.* Official opening by Lewis Silkin, M.P., August 13, 3 p.m. UNTIL AUG. 31

## NEWS

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No. 2741 Vol. 106

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

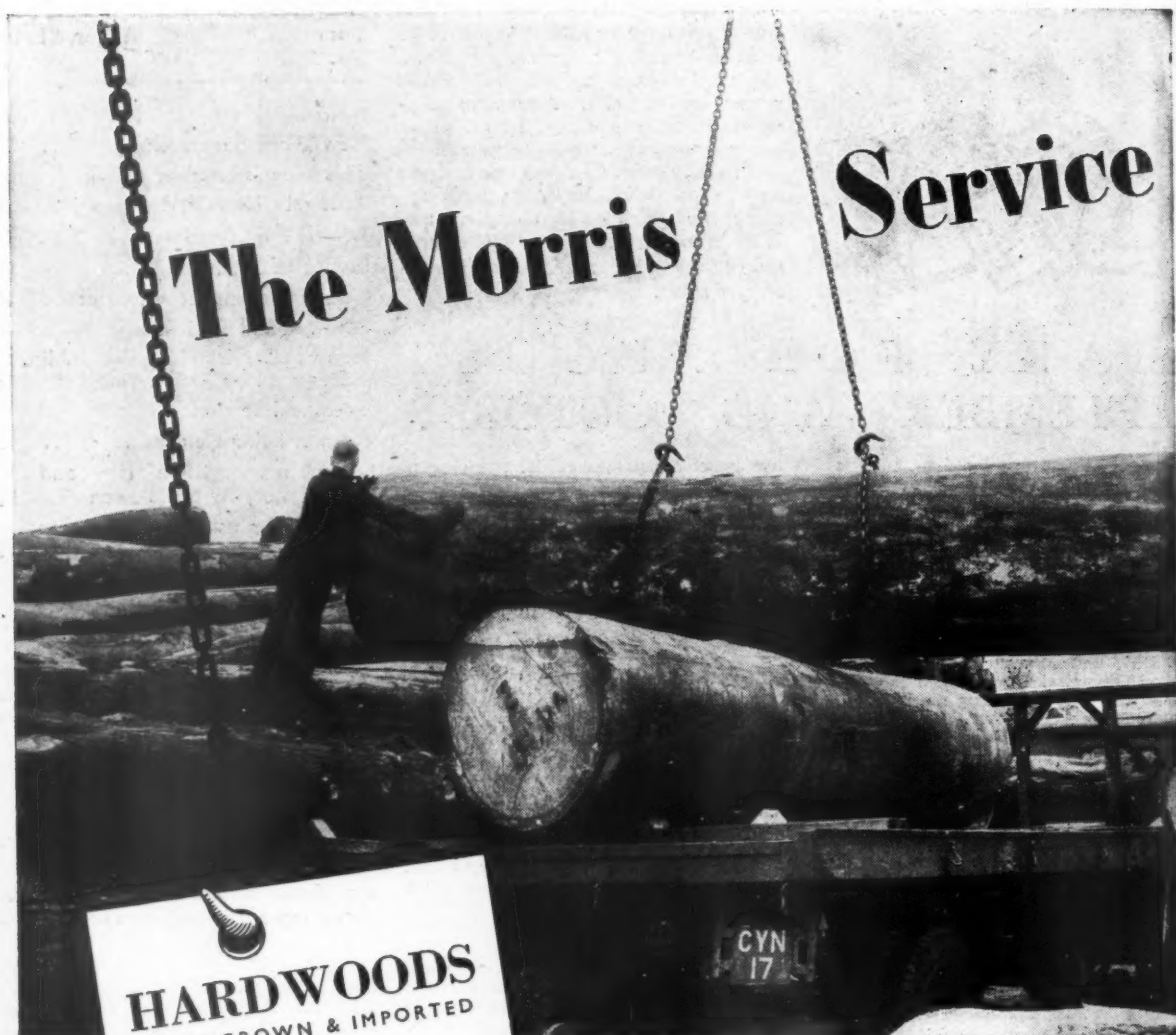
**Mr. M. F. Costello, of Dublin, has recently been appointed to the Colonial Service as TOWN PLANNING OFFICER to the HOUSING AND PLANNING COMMISSION, TRINIDAD.**

Mr. Costello was educated at St. Mary's College, Galway, and the U.C.D. School of Architecture. His qualifications include M.R.I.A.I. and A.M.T.P.I. He has held appointments with the Office of Public Works, Ireland, and Dublin Corporation.

★★

**The Minister of Works, after consulting representatives of building contractors, distributors, and building material manufacturers, is introducing CHANGES IN THE MATERIALS PRIORITY DISTRIBUTION SCHEME—the W.B.A. scheme.**

This will mean that a large reduction in the number of items the distribution of which is controlled, and will introduce statutory sanction for the use of priority certificates in connection with the remaining items. The change is brought about by an Order to come into force on September 1.



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## From AN ARCHITECT'S Commonplace Book

**AROUSING CIVIC CONSCIOUSNESS.** [From Patrick Geddes in India.] Local knowledge and understanding are essential to the town planner, together with consideration and tact when dealing with the individual requirements of the citizens. Other requirements are powers of social appeal and a civic enthusiasm that will enable him to arouse neighbourhood after neighbourhood to participate in schemes of improvement instead of remaining indifferent to them. Only in this way can he gradually inspire the city as a whole. For such work, moral influence and energy are needed in no small measure. This must not, however, be expressed by an authoritative attitude that ignores apathy and overpowers opposition. If the plans are to succeed, more than technical expertness and activity are required; more than municipal powers and business methods. The town planner fails unless he can become something of a miracle-worker to the people. He must be able to show them signs and wonders, to abate malaria, plague, enteric, child-mortality, and to create wonders of beauty and veritable transformation scenes. Sometimes he can do this in a few weeks, or even in a few days, by changing a squalid slum into a pleasant courtyard, bright with colour-wash and gay with old wall-pictures, adorned with flowers and blessed again by its repaired and replanted shrine. Within a year he can change an expanse of rubbish mounds, befouled in every hollow and defiling every home with their germ-laden dust, into a restful and shady open space, where the elders can sit in the evening watching the children at play and watering the new trees they have helped to plant.

**The London County Council has decided to hold an OPEN-AIR EXHIBITION OF SCULPTURE in the Winter Garden at Battersea Park from mid-May to mid-September, 1948.**

It is proposed that the exhibition shall be international in character, including the work now in Great Britain executed by British or foreign sculptors of the past 50 years and perhaps some pieces from abroad. Something like 40 pieces can be fittingly displayed on the site of the Winter Garden in Battersea Park. The close co-operation of the Arts Council of Great Britain has been enlisted and a working party to discuss details has been formed, on which the London County Council is represented by the Chairman of the Parks Committee (Mrs. Patricia Strauss), the Vice-Chairman of the Committee (Mr. G. P. Wright), and Mr. J. K. Vaughan-Morgan, a member of the Committee. The working party also includes Sir Kenneth Clark, K.C.B., Mr. J. K. M. Rothenstein, M.A., PH.D., Director and Keeper of the Tate Gallery, Mr. Henry Moore, and Mr. Philip James, Director of Art, the Arts Council of Great Britain. The Selection Committee will consist of the working party, and it is proposed that invitations to join the Selection Committee shall be extended to Sir Eric MacLagan, Professor Frank Dobson, and Mr. Charles Wheeler. The Selection Committee will first approve a list of sculptors whose works may be included in the exhibition, and will then compile a list of their works available in this country and finally decide on any invitations to be extended to sculptors abroad.

**Mr. Churchill is supporting an appeal for £20,000 for the restoration of the ST. GEORGE'S CHAPEL OF REMEMBRANCE at Biggin Hill R.A.F. Station.**

The chapel, which will be built on the site of the Battle of Britain operations room at the station, is to take the place of the chapel destroyed by fire last December, and will serve as a memorial to nearly 500 fighter pilots who lost their lives during operations from the Biggin Hill sector.

The appeal is being circulated privately among relatives and friends of the pilots commemorated. The chairman of the com-

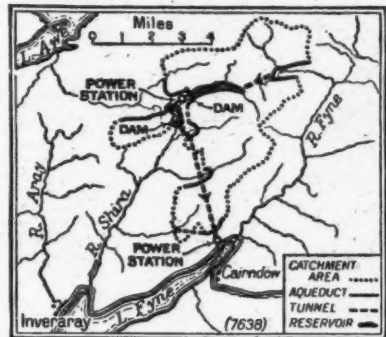
mittee is Air Marshal Sir Grahame Donald, and the treasurer is Mr. H. J. Ingle, of Lloyds Bank, Uxbridge, Middlesex, to whom contributions should be sent.

The architect of the chapel is Mr. W. Wylton Todd, formerly a flight lieutenant in the R.A.F., who designed the Stalag Luft III memorial to the 50 R.A.F. officers shot during the mass escape.

**An explanation of the GLEN SHIRA project for the supply of 80,000,000 units of electricity a year for local use and for transmission to Glasgow and the West of Scotland has been presented to Parliament.**

The scheme was prepared under the Hydro-Electric Development (Scotland) Act, 1943, and provides for impounding the upper waters of the rivers Shira and Fyne in the County of Argyll. Two new lochs will be created in the hills above Loch Fyne and one, the main storage loch, will be formed by a dam at Sron Mor, in upper Glen Shira, 1,125 ft. above sea level. The main generating station, with an installed capacity of

40,000 kilowatts, will be situated on the main Arrochar-Inveraray road at Clachan, near the head of Loch Fyne. The scheme is estimated to cost £3,150,000 and will employ up to 2,000 men. After consultation with the Amenity and Fisheries Committees, the North of Scotland Hydro-Electric Board has agreed that the pipelines should be concealed.



The Times map showing the location of the Glen Shira hydro-electric development project.



Construction of the proposed £9,000,000 Severn Bridge between Beachley and Aust, originally intended to start next spring, is likely to be delayed as part of the national economy drive. The future of the scheme is now under consideration by the Ministry of Transport. The illustration shows a drawing of the bridge and a map of its location appeared in the A.J. August 14. The consulting Engineers are Messrs. Mott, Hay and Anderson, with whom are associated Messrs. Freeman, Fox and Partners. The consulting architect is Sir Percy Thomas.





## New Town Background

Now that the legal impediments in the way of the first Silkin satellite town have been swept away, work has begun at Stevenage. No architect has yet been appointed to control the development, but no doubt this gap will soon be filled and the Corporation, under the chairmanship of Mr. Clough Williams-Ellis, is already making preparations for building to begin in earnest. Above is an aerial photograph of the site, the boundary of the new town being

indicated by a white line. The dotted line shows the position of the future town centre. Inset on the left is the outline plan for the new town, designed by Mr. Gordon Stevenson, of the MOTCP. The JOURNAL proposes to follow closely the growth of Stevenage and will publish at regular intervals progress photographs so that readers will be able to see for themselves the development of this new adventure in building an integrated community.



*The British Road Federation deprecates the announcement by the Prime Minister that the SEVERN BRIDGE project is being temporarily held in abeyance.*

The Federation, in a statement just issued, says: In the present economic crisis such action may be in the national interest, but His Majesty's Government should proceed with this work in order to facilitate the free flow of transport, the importance of which was stressed by the Prime Minister in his speech. It is to be hoped that the statesmanlike policy of highway development announced by the Minister of Transport in May, 1946, will not be shelved, since this policy is of paramount importance to the economic recovery of the nation.

**Mr. Anthony Minoprio, M.A., B.Arch. (Lupl.), F.R.I.B.A., A.M.T.P.I., has been APPOINTED TOWN PLANNING CONSULTANT for the new town of Crawley.**

Aged 47, he was educated at Harrow, University College, Oxford, the Liverpool School of Architecture under Sir Charles Reilly, and the British School at Rome. Among his appointments have been: Member of RIBA Council, 1937-44, Hon. Secretary RIBA Board of Architectural Education, 1938-40, Hon. Secretary of RIBA Special Committee on Architectural Education, 1939-45, Member of ARCUK Council and Board of Architectural Education, 1939-46, RIBA Examiner in Architectural Design, 1940-45, RIBA Fellowship Examiner, 1946-47. Since 1928 he has been in general architectural practice with H. G. C. Spencely, F.R.I.B.A. His experience has covered houses and flats of many types, industrial and office buildings, schools, hospitals, baths, clinics, shops, restaurants, hotels, agricultural hostels, estate plans, gardens, furniture and interior decoration. The partnership has been prize-winner in four open architectural competitions and the open competition for redevelopment of the Harbour Station and sea front at Ramsgate in 1931. The firm has prepared town planning reports for Chelmsford, Worcester, Shanklin and Ipswich and a design for a satellite town at Edenbridge.



Mr. Anthony Minoprio who has been appointed Town Planning Consultant for the new town of Crawley. See news item above.

## SCOTLAND'S ENTERPRISE

THE name of Scotland conjures up many different pictures to those who live south of the Border. To some it means kilts and bagpipes in a wild and desolate landscape, to others the slums of Glasgow and the civilized architecture of eighteenth-century Edinburgh, to others again Scotland can be summed up in whisky, oatcakes and deer forests. On August 25 an exhibition entitled "Enterprise Scotland" opens in the Royal Scottish Museum in Edinburgh. At this exhibition the visitor will find, in the words of the President of the Board of Trade, "All that is best in Scottish design and manufacture."

While the architect will no doubt admire the work of able designers and skilled workers he will, as indeed he must, be uneasy at the sorry state to which architecture in Scotland has declined.

Many eminent Scotsmen have taken Dr. Johnson's famous remark on the finest prospect in Scotland to heart and have left the heather and the Gorbals for England, and their native land has been the poorer. Until the nineteenth century when the foundations of many Scottish industries were laid, there was a vigorous native architecture, distinguished by its independent regional character. Since then it has slowly become a poor thing owing little to native originality and complacently imitating the worst features of a romantic tradition and southern industrialism.

This decline has continued in spite of the genius of a Charles Rennie Mackintosh and a Patrick Geddes. The world is richer for the work of these two men, the latter having revolutionised the whole idea of planning for towns and regions. The Glasgow School of Art and The Outlook Tower in Edinburgh remain almost isolated monuments to the originality and vision of Scottish genius. It has become almost a matter for pride that towns and villages, schools and public buildings are of a stark hideousness devoid of those very qualities that have made Scotland of the past a place of pilgrimage for those who seek beauty in the homes and architectural monuments of the people. The picture, however, is not one of unrelieved gloom. The report of the Scottish Housing Advisory Committee is a pointer to a brighter future, the appointment of Mr. Gardner-Medwin—the new architect to the Department of Health for Scotland—suggests that a renaissance may be on the way. The final section of the exhibition referred to above—"Scotland Tomorrow"—will show whether the inglorious past of the last fifty years is now forgotten, or remembered only with shame.

On August 6 a "fiery cross," traditional method of summoning the clans to plunder and bloodshed, was sent from Edinburgh to Scottish communities in England and overseas. May Scottish architects regard it as a summons from their countrymen to fulfil the promise of Geddes and Mackintosh and

create for the Scottish people an environment worthy of a great nation.

Let us once more see north of the Border, an indigenous, bold and sensitive architecture arise from the ruins left by nineteenth-century rapacity.



*The Architects' Journal*

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## N O T E S

&

## T O P I C S

### ASTRAGAL HOUSE

Astragal has received a most moving request from Messrs. Steel & Owen, architects, of Kingston-upon-Hull. This firm has purchased a block of offices at No. 199, Anlaby Road, Hull, and has written to ask if the block may be called, in admiration, Astragal House.

Now, as most architects know, an astragal is a small semi-circular moulding often cut into beads (those of you who are ex-gunners may also remember—if you go back that far—that it also means the small moulding round a cannon's mouth), and that as it is an architectural term and not a title of honour there is no more need to ask for permission to use it than there is need to ask your doctor if you can call your daughter Hernia. At the same time the courtesy of Messrs. Steel & Owen is as deeply appreciated as is the implied compliment, and in welcoming the suggestion, Astragal—who has often broken out, but never been

cut, into beads, and who has never been nearer the cannon's mouth than reading "The Charge of the Light Brigade," at school—shows the depth of his emotion by not even asking to see a photograph of 199, Anlaby Road.

### ANCIENT (INDUSTRIAL) BUILDINGS

The preservation of old wind and water mills has been the subject of recent letters in *The Times*. Nearly everyone has a soft spot for old windmills and would like a good many of them to be preserved. Yet one cannot help feeling that a general review of the kinds of industrial and transport structures and plant that ought to be preserved should precede appeals to save particular examples.

There are two special difficulties about the problem in this country. The first is the difficulty of preserving both the structure and its machinery or equipment. Sometimes one can be kept and sometimes the other, but keeping both



Offices for the Eagle Insurance Company in Colmore Row, Birmingham. See Astragal's note.

is likely to be very costly and could only be justified in a limited number of cases.

Secondly, although windmills, canals and other pre-Steam Age works are generally liked they are things which are common to many countries. But this country has surely a special responsibility for preserving some of the earlier works of the Industrial Revolution, particularly early railway stations and bridges, mining and iron works and power-driven factories. I confess I do not know what has been done in this direction already and one can see only too clearly the difficulties of preserving an industrial ancient monument. But one feels that the next few years would be a good time for the Ministry of Town and Country Planning to consult with the Science Museum, the Ministry of Transport and the main industries to see what more is possible. After all, a Labour Government should be zealous to preserve good examples of an early railway station, a cotton mill and (if it can be arranged for visitors) a coal mine.

### FORGOTTEN EXEMPLAR

I was glad that "an Old Grumbler," whose letter is printed on page 162, reminded me of the Lethaby building in Colmore Row in Birmingham. This delightful office for the Eagle Insurance Company was built in 1901, but, alas, seems to have left no progeny. As can be seen from my photograph, it provides a model that might have helped Birmingham and its architects to build more worthily than they have.

For an interesting discussion of this building and others I would refer my readers to an article entitled "Nine Swallows—No Summer," by Nicholas Pevsner, in the *Architectural Review* for May, 1942.

### 1904 MODERN

Have you ever been to Kempley, among the elms and orchards of farthest Gloucestershire? If you are an amateur of twelfth-century wall paintings, there is a chance that you have, for the old church there contains a display which



Kempley Church, Gloucestershire. The painted rood beam. See Astragal's note below.

for once it doesn't take Professor Tristram to see. But in that case you probably missed the "new" church, on higher ground nearly a mile away.

It was "An Old Grumbler's" bringing up of Lethaby's Birmingham insurance offices that set me thinking of Kempley and made me dig out the snaps here reproduced. For the architect of Kempley's new church, which was built in 1904, was a member of the Lethaby-Prior circle; what is more, he supervised the building of Lethaby's own little church at Brockhampton, not so far away. His name? Randall Wells.

Looked at one way, Kempley church, with its tremendous roof of Forest of Dean stone tiles, its painted rood-beam with statues by David Gibb (last of the ships' figurehead carvers), its lectern by Ernest Barnsley and its candlesticks by Ernest Gimson, represents the apotheosis of Arts-and-Crafts. Looked at another way, it contains hints—and more—of the shapes of certain things to come. But looked at any way, it is a building of genuine charm, and Astragal is glad to take the opportunity of paying this humble tribute to a pioneer whose death in 1942 passed less noticed than it should have been.

#### ARCHITECTS' GUIDE TO TREES

Architects have always loved playing with trees, whether aligned in long avenues, grouped informally in bunches, formed into quincunxes or clipped and trimmed, on lawns, in rose gardens or hedges. They may prefer Wright's trees growing through the roof of the house, or Le Corbusier's amorphous shapes relieving the lower few stories of the Cartesian skyscraper, or Mendelsohn's spreading foliage low over terraces, or Neutra's palms and exotic plants in Puerto Rica. Trees they must have. The APRR have done a service in compiling a selection of sixty trees suitable for general cultivation in England, recently published for them by Lund Humphries.\*

The excellent photographs of specimen trees are well matched by the vigorous drawings by S. R. Badmin, whose Puffin book on trees is well known. The approximate rate of growth, shown diagrammatically, will give hope to the young, but may cause despair in the ageing. The notes will enable the reader to impress his clients with his arboricultural knowledge. It is regrettable, however, that more information is not given in the more formal uses of trees. Planting and training of pleached alleys, pollarding and the making of clipped hedges would prove a most useful addition to Mr. Badmin's drawings. It is true that there is a note on each example indicating whether the tree is suitable for these purposes, but there are fewer and fewer people with gardens large enough for specimen trees, and architects, though tree-lovers, are often ignorant of the techniques of pruning and training.

#### ASTRAGAL



Kempley Church, Gloucestershire, designed by Randall Wells. A view from the northwest.

\*Trees for Town and Country, illustrated by S. R. Badmin, compiled by the Association for Planning and Regional Reconstruction; Lund Humphries, 25s.



## LETTERS

Malcolm Trustram Eve

"An Old Grumbler"

Peter Caspari

### War Damage Value Payments

SIR.—The Government has fixed November 10, 1947, as the starting date for making value payments under Part I of the War Damage Act. I hope it may be helpful to your readers if I explain the procedure and probable dates of payment.

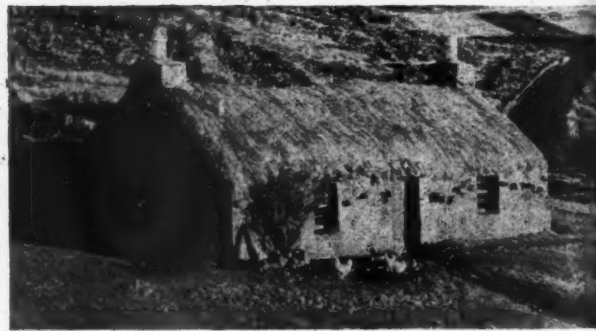
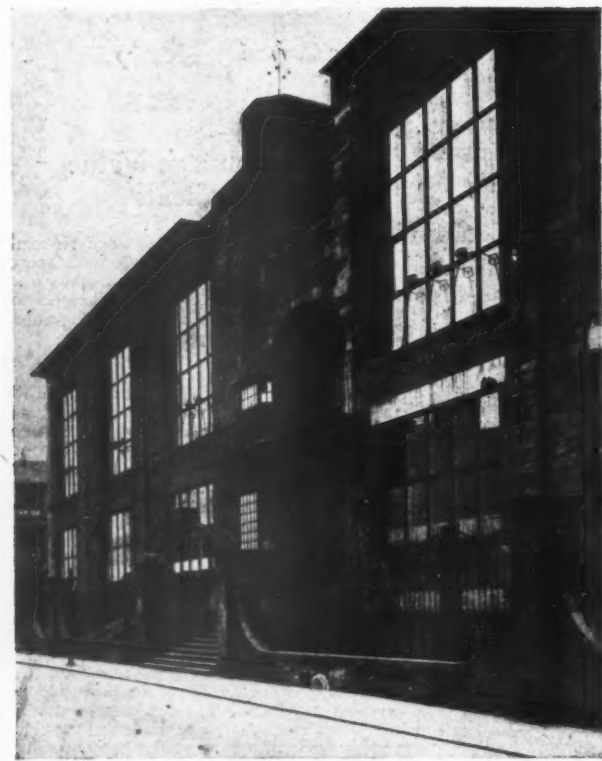
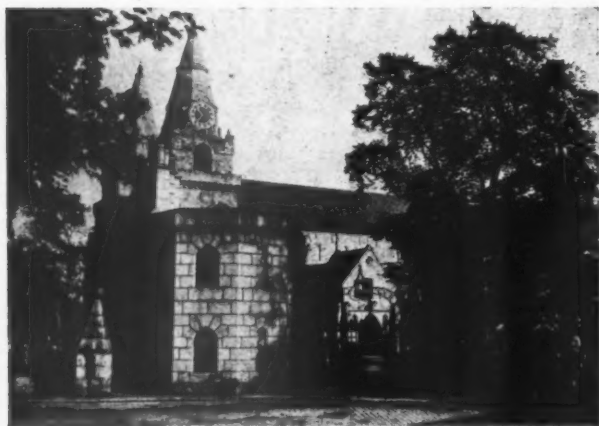
The War Damage Commission had hoped to be able to release the great proportion of the payments on that date, but although all the necessary arrangements have been made for handling the work involved, the failure of owners in cases where there are two or more proprietary interests to agree their shares and to notify the Commission of the amounts, will reduce substantially the number of payments which can be made on the earliest paying date. The Commission have so far been advised of the amounts of the shares in only 20 per cent. of the cases involved, although the information was called for, first, when the formal determinations were issued; later, when special forms for the purpose were issued; and for the third time when reminders were issued. Until the agreed figures are received, no further progress on any outstanding case can be made.

The work of calculating the actual payable amount (that is, adding to the basic amount the 45 per cent. increase and the interest from date of damage to date of payment; and deducting income tax on the interest and the amount of any outstanding War Damage Contribution); and of preparing the necessary documents (a payable order, a statement of account, an income tax certificate, and necessary departmental records), is being carried out by contract by machine methods, before the contractors can start, the basic information must be recorded by the Commission's regional staff on special forms. When the contractors have finished, the Commission's staff must check, record, and despatch the completed documents. In view of the large number of separate operations involved, the complete process takes many weeks.

The first bulk issue on November 10 must, therefore, be limited in the main to cases now with the Commission. It will include the great majority of cases where there is a single proprietary interest. If the volume of work justifies it, a second bulk payment



## STONES OF SCOTLAND



"Enterprise Scotland, 1947" opens in Edinburgh next Monday and Scotland provides opportunity no less for visitors the world over to delve among her mountains and plains, her cities and villages.

Scotland in the past has contributed much to the world of learning and if there has been less of delight in her architecture than in that of the milder south there has been much of beauty. Though not impervious to continental influences, Scottish architecture has always maintained strongly marked regional characteristics. From Scotland, too, have come creative influences that have helped to change the world of architecture and planning. May Scottish architecture forget the contemporary pallid reminiscences of Scottish Baronial and live again as the heir to the genius of Charles Rennie Mackintosh and Patrick Geddes.

Top left, St. Machar's Cathedral in Aberdeen, right, Glasgow College from a seventeenth century drawing, the church was demolished in 1670. Left, Glasgow School of Art, by Charles Rennie Mackintosh, and below, a crofters cottage in Skye. See leading article on page 159.

will be made in mid-December. For inclusion in this payment cases must reach the Commission before October 1, but the Commission's work will be greatly assisted if claimants or their professional advisers will see that wherever possible the agreed shares reach the Commission in advance of that date.

Thereafter machine methods will not be available, and the work involved in making value payments will fall entirely upon the Commission's staff, who are already working under pressure in recording and paying each week 8,500 claims and 1,500 applications for instalment payments, besides dealing with a mass of miscellaneous work. Claimants, therefore, who fail to notify the Commission of the amounts of their shares by October 1 cannot be paid this year, and must expect a time-lag of at least eight weeks after the agreed shares have been sent to the Commission.

London

MALCOLM TRUSTRAM EVE

### Licensed Premises at Birmingham

SIR,—As one hoping to see in our post-war world a return to the fine old traditions of English architecture, I was startled by the design you publish this week for the new Licensed Premises building at Birmingham. Have we not had enough of this architectural *bolshevism*, reminiscent of the so-called "new architecture" of Moscow, which, however suitable in its own surroundings, is surely not what we desire for our own cities?

It was in Birmingham, many years ago, that the late W. R. Lethaby built his one and only commercial building, an example which I used to hope would lead away from sensationalism to a sane, modest expression of our present-day needs.

I trust that you, Sir, and Mr. Howitt, will forgive this outburst from

AN OLD GRUMBLER

### Advertisement Hoarding

SIR,—I would like to add to Mr. H. J. Meyer-Montague's letter on advertisement hoardings that *Litfassäulen* in Germany serve a double purpose.

Their original function was to protect electric transformer sub-stations. Later the enterprise of Herr Litfass made these cylindrical shelters available for advertising.

Electric supply undertakings might be glad of the opportunity of additional sites for transformer stations, especially in built-up areas where conversion of property now demands increased loads over those originally required by single family occupation.

PETER CASPARI, L.R.I.B.A.

Chalfont St. Peter.





The Site and its background.

# UNITED NATIONS HEADQUARTERS, NEW YORK

On July 1, 1947, demolition work started on the site of the United Nations headquarters, New York, and on the same day the report on the establishment and planning of the permanent headquarters, requested by the General Assembly in December of last year, duly appeared. The report will be considered by the next General Assembly in September.

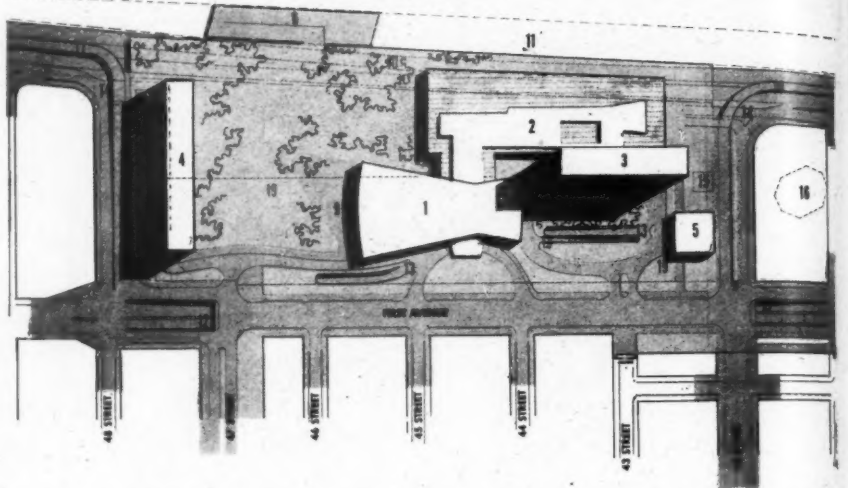
Mr. Wallace K. Harrison was appointed Director of Planning, and subsequently ten architects and engineers from as many countries were appointed as the Board of Design Consultants. In

addition Associate Architects and Engineers, Special Consultants and Consulting Engineers were called upon. Altogether, architects and engineers from thirteen nations have been actively engaged in preparing the designs illustrated in the following pages. In his report, the Secretary-General remarks "One noteworthy fact: in the course of this long and arduous work of collaboration, a singleness of viewpoint became manifest and all major decisions were arrived at unanimously. The spirit of the times seemed to rally all those

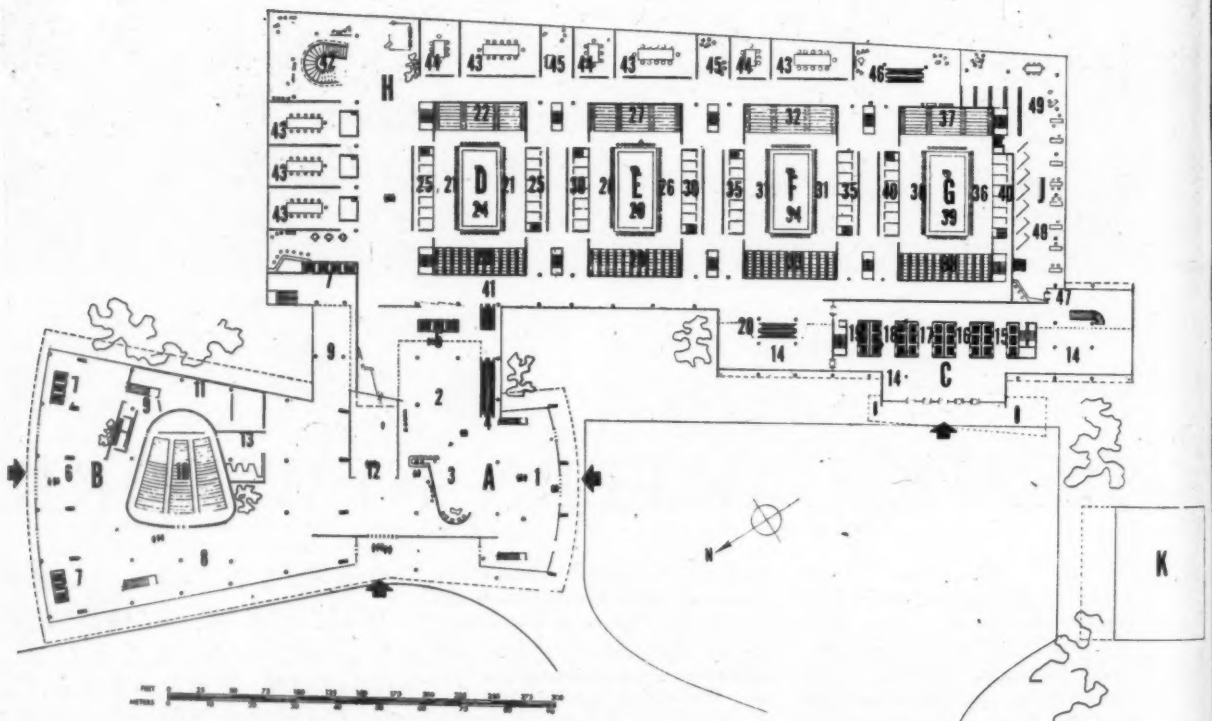
DESIGNED BY  
WALLACE K. HARRISON.  
G. A. SOILLEUX.  
GASTON BRUNFAUT.  
OSCAR NIEMEYER.  
ERNEST CORMIER.  
SSU-CH'ENG LIANG.  
LE CORBUSIER.  
SVEN MARKELIUS.  
H. D. BASSOV.  
HOWARD ROBERTSON.  
JULIO VILAMAJO.

engaged in this task, and the result must certainly be that the architectural concepts born in the workshop of the Headquarters Planning Office express that spirit." Certainly never before has there been a group of designers from so many different countries working together on a building of such importance. No details of the treatment of the elevations have yet been published but the designers' approach is clear from the illustrations.

**THE SITE.**—The East River site is 1,500 ft. long, stretching from 42nd to 48th Streets and from First Avenue to the waterfront. The site is large enough, with the aid of modern building technique, for the three fundamentals of contemporary town planning to be applied, sunlight, space and verdure. The designers hope that the treatment of this site will give a lead to the future development of New York City.

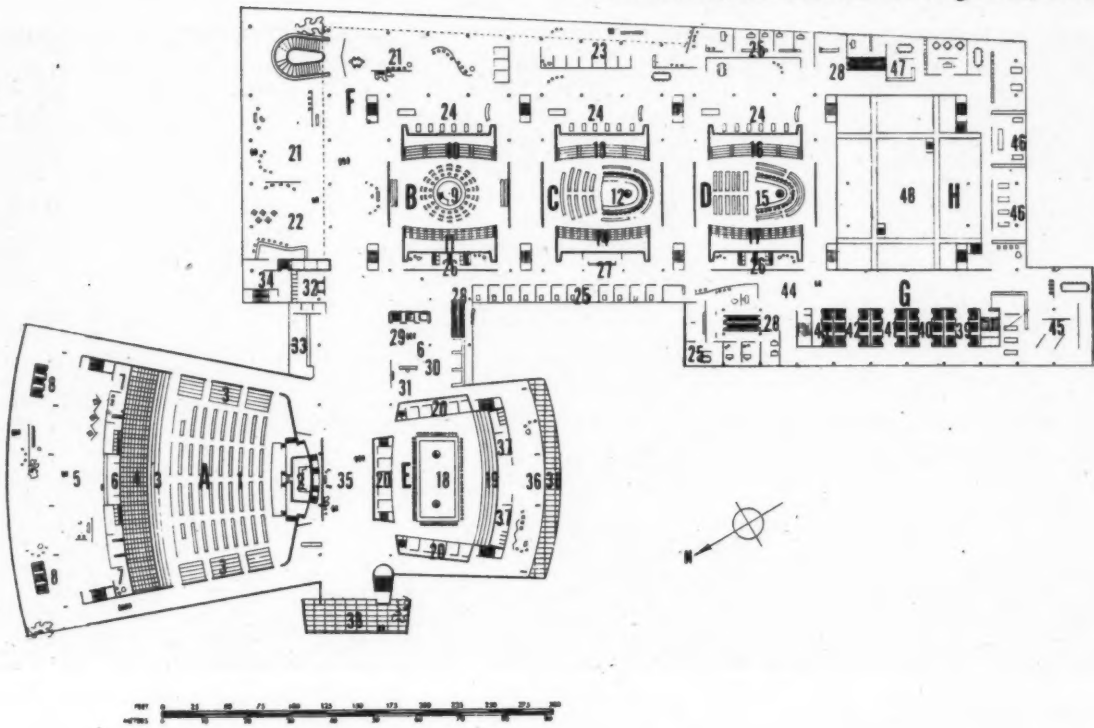


**Site Plan :** 1. General Assembly. 2. Conference Area. 3. Secretariat Building. 4. Area reserved for delegations and specialised agencies. 5. Building of the New York City Housing Authority. 6. Pier. 7. Secretariat and Press entrance. 8. Delegates entrance. 9. Public entrance. 10. Franklin D. Roosevelt Drive underpass. 11. East River. 12. First Avenue underpass. 13. Ramps to garages. 14. Entrances to garages. 15. Subway vent shaft. 16. Queens-Midtown Tunnel vent shaft. 17. Northbound ramp to entrance to Franklin D. Roosevelt Drive from 48th Street. 18. Northbound ramp exit from Franklin D. Roosevelt Drive to 42nd Street. 19. Parking—lower level.



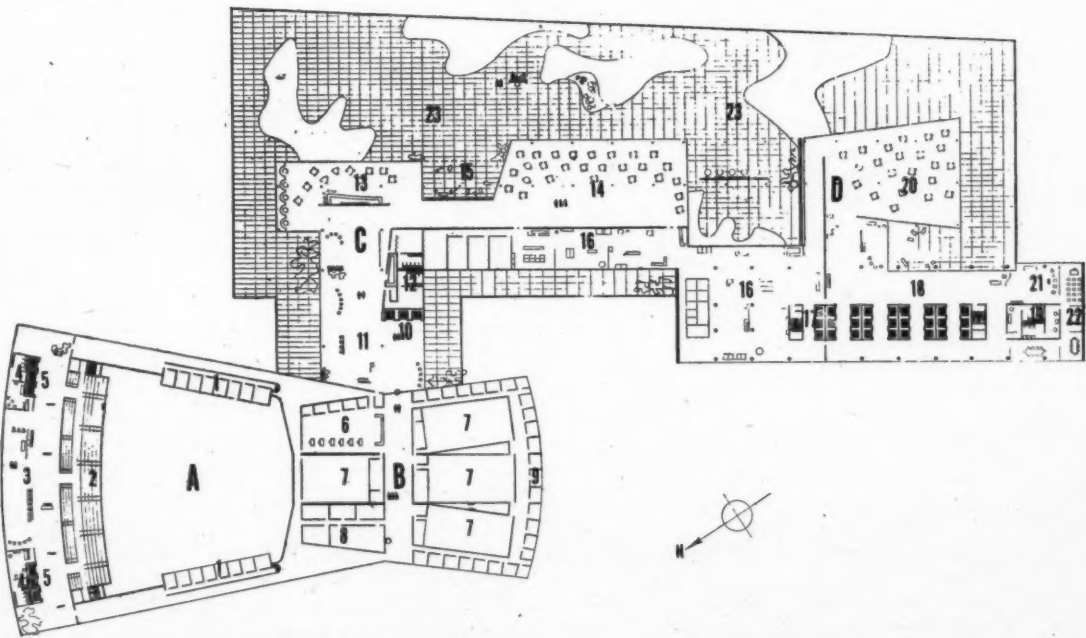
**Main Entrance Level.** A. Delegates Entrance: 1. Entrance lobby. 2. Check-room and toilets. 3. Information. 4. Escalator to main delegates lounge. 5. Delegates elevators. B. Public entrance: 6. Entrance lobby. 7. Public elevators. 8. Exhibition. 9. Check-room and toilet. 10. Cinema (or auditorium). 11. Dressing rooms, etc. 12. Public ramp to conference rooms. 13. Communications centre for public. C. Secretariat and Press entrance: 14. Entrance lobby. 15. Low-rise elevators. 16. Medium low-rise elevators. 17. Medium high-rise elevators. 18. High-rise elevators. 19. Service elevators. 20. Escalators for Press. D. Conference Room No. 1: 21. Delegates and advisers. 22. Public gallery. 23. Press

gallery. 24. Secretariat. 25. Booths. E. Conference Room No. 2: 26. Delegates and advisers. 27. Public gallery. 28. Press gallery. 29. Secretariat. 30. Booths. F. Conference Room No. 3: 31. Delegates and advisers. 32. Public gallery. 33. Press gallery. 34. Secretariat. 35. Booths. G. Conference Room No. 4: 36. Delegates and advisers. 37. Public gallery. 38. Press gallery. 39. Secretariat. 40. Booths. H. Delegates Arm: 41. Escalator from parking area. 42. Main stairway. 43. Large committee rooms. 44. Smaller committee rooms. 45. Rest rooms. 46. Escalator to main delegates lounge. J. Library: 47. Entrance. 48. Exhibition area. K. Public information and reference. K. New York City Housing Authority



**Delegates Level.** A. General Assembly: 1. Seats for delegates. 2. Podium. 3. Advisers and accredited observers. 4. Press gallery. 5. Public lobby. 6. Telephones. 7. Toilets. 8. Public elevators. B. Security Council: 9. Conference area for delegates and advisers. 10. Public gallery. 11. Press gallery. C. Trusteeship Council: 12. Conference area for delegates and advisers. 13. Public gallery. 14. Press gallery. D. Economic and Social Council: 15. Conference area for delegates and advisers. 16. Public gallery. 17. Press gallery. E. Conference Room No. 5: 18. Conference area for delegates and advisers. 19. Press gallery. 20. Booths. F. Delegates area: 21. Main dele-

gates lounge. 22. Bar. 23. Private rooms. 24. Writing rooms. 25. Council executive offices. 26. Toilets. 27. Check room. 28. Escalators. 29. Delegates elevators. 30. Information and transportation desks. 31. Reception. 32. Telephones and telegraph. 33. Document distribution. 34. Service. 35. Lobby. 36. Lounge. 37. Toilets. 38. Terraces. G. Secretariat Building: 39. Low-rise elevators. 40. Medium low-rise elevators. 41. Medium high-rise elevators. 42. High-rise elevators. 43. Service elevators. 44. Lobby. H. Library: 45. Map room. 46. Emergency collections. 47. Delegates reading rooms. 48. Book stacks.



**Roof Level.** A. General Assembly: 1. Booths. 2. Public balcony. 3. Public lounge. 4. Rest rooms and toilets. 5. Elevators. B. Radio Studios: 6. Offices. 7. Studios. 8. Offices for radio correspondents. 9. Network offices. C. Delegates dining area: 10. Elevators. 11.

Foyer. 12. Toilets. 13. Bar. 14. Restaurant—dining terrace. 15. Dining terrace. 16. Kitchens. 17. Service elevators. D. Secretariat dining area: 18. Lobby. 19. Toilets. 20. Restaurant. 21. Lounge. 22. Library. 23. Roof gardens.

U N H E A D Q U A R T E R S

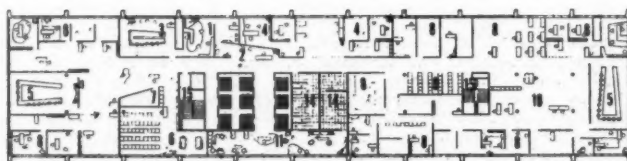




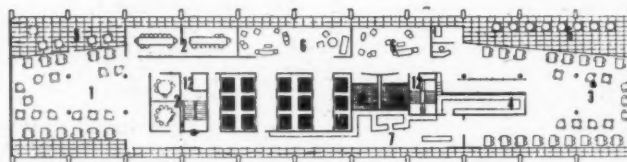
A general view from East River.

**THE STRUCTURE.**—There are two types of building: on the one hand, offices whose dimensions can be standardized; on the other hand, halls of varying sizes, each with special structural requirements. All foundations will rest on rock, called Manhattan Schist. The low buildings will have widely spaced columns and long spans leaving clear spaces for meeting rooms, lounges, and for the underground parking levels. Some spans are more than 90 ft. and will require very deep trusses. This depth will, in many cases, be included within an intermediate floor level so that the top chord of the truss supports the floor above, while the lower chord supports the intermediate floor level. When final details are drawn, attention will be given to the possible use of welding, continuous trusses, pre-stressing, and other recent structural developments. The high buildings will be steel framed, each column line will have four columns, with two exterior and two interior columns. This arrangement will carry the wind loads (wind velocities up to 80 miles an hour), into the interior frame of the building and resist overturning. For floor construction short-span reinforced concrete slabs have been chosen. The slabs are to be reinforced with steel mesh.

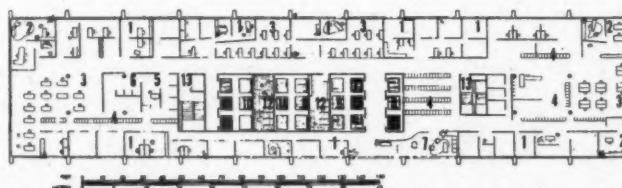
**PLANNING.**—The programme requires a complex that must be flexible to accommodate changing needs, and allow of expansion. The Conference area is designed as a basic structural shell whose spaces have multiple potential



**Typical Floor for Assistant Secretary-General.**—1. Office of Assistant Secretary-General. 2. Reception room. 3. Meeting room. 4. Assistants and advisers. 5. Conference room. 6. Library. 7. Documents distribution. 8. Departmental offices. 9. Files. 10. Clerical office space. 11. Lounge. 12. High-rise elevators. 13. Service elevators. 14. Toilets. 15. Stairways.



**Typical Restaurant Floor.**—1. Restaurant. 2. Private dining rooms. 3. Cafeteria. 4. Serving counter. 5. Terraces. 6. Lounge and club rooms. 7. Kitchen. 8. High-rise elevators. 9. Medium high-rise elevators. 10. Service elevators. 11. Toilets. 12. Stairways.



**Typical Office Floor.**—1. Typical private offices. 2. Executive suites. 3. Clerical office space. 4. Filing. 5. Documents distribution. 6. Storage. 7. Lounge. 8. Medium low-rise elevators. 9. Medium high-rise elevators. 10. High-rise elevators. 11. Service elevators. 12. Toilets. 13. Stairway.

Typical Floor Plans of the Secretariat Building.





**Cross-Section :** 1. Conference room. 2. Council chamber. 3. Restaurants. 4. Committee rooms and delegates access to conference rooms. 5. Public access to conference rooms. 6. Committee rooms. 7. Main delegates level and access to Council chambers. 8. Public access to Council chambers. 9. Secretariat entrance. 10. Press access to conference rooms. 11. Conference Services level. 12. Delegates access to Council chambers. 13. Press access to Council chambers. 14. Secretariat. 15. Documents production and other services. 16. Shipping, receiving, garage, and shops. 17. Maintenance and mechanical services. 18. Parking levels. 19. Franklin D. Roosevelt Drive—south-bound. 20. Franklin D. Roosevelt Drive—north-bound. 21. First Avenue. 22. Proposed tunnel under First Avenue.

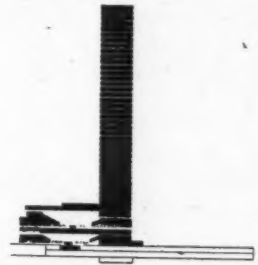
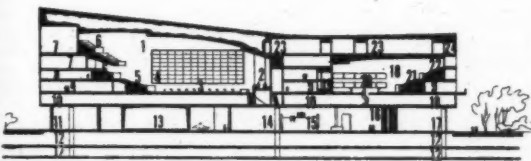


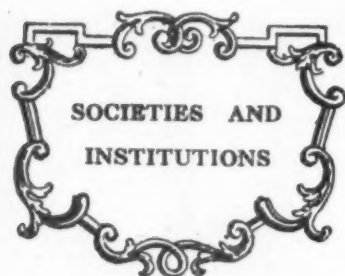
Diagram showing the height of the Secretariat building in relation to the low block on the left.



**Longitudinal Section :** 1. General Assembly. 2. Podium. 3. Delegates floor. 4. Booths. 5. Press gallery. 6. Public galleries. 7. Public lounge and access to galleries. 8. Press area and access to galleries. 9. Delegates access to meeting halls. 10. Services to General Assembly and storage. 11. Public entrance. 12. Parking. 13. Cinema. 14. Public lobby and exhibition space. 15. Ramps to public lounge. 16. Escalators to delegates lounge. 17. Delegates entrance. 18. Conference Room No. 5. 19. Booths. 20. Conference table. 21. Press gallery. 22. Public gallery. 23. Radio studios. 24. Offices.

uses and are internally adjustable and sub-divisible. The open areas planned for public exhibits and for a small theatre can be converted into large meeting halls, should they be required at some future time, or into service areas. The Secretariat Building must permit of constant redistribution and re-allocation of space as the Secretariat undergoes administrative and organisational changes. A simple framing structure, with continuous modular fenestration, and a centrally located, efficient vertical circulation, will give complete freedom for such rearrangements of office-space.





*Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.*

## TCPA

### Sir Thomas Bennett

July 27. At Ashridge College, Herts. A lecture on NEW TOWNS AND LOCATION OF THE INDUSTRY, by Sir Thomas Bennett, C.B.E., F.R.I.B.A., Chairman of the Crawley New Town Development Corporation.

**Sir Thomas Bennett :** When considering the location of industry, we must consider the location of a number of units, and these have many factors which need thought in building up the whole. The New Towns which it is proposed to erect around London are not the only means of re-locating industry, but they bring to light a number of the important factors which should be considered.

If a number of industries are to be concentrated into the basis of a town, and that town is to grow up around this group of factories, the labour which the factories employ must be balanced properly in proportion to the working population as to men, women and juveniles. This means that we should welcome the heavier and perhaps less attractive industries, that we may provide good living conditions for those who normally have worked in the heavier and older industries under bad conditions. It is also necessary that we should avoid a series of factories all entirely different from each other, because by so doing we should give the individual no choice of employment. Discharge for any reason from one factory as the result merely of

disagreement with the foreman or management, would throw this person out of work with little hope of being re-employed. Wide and very dissimilar series of industries should not be housed in one town because they do not give rise to a pool of trained labour which is a characteristic of the old town, and so there should be some similarity between the type of work which is introduced into the town. But it does not necessarily follow that all the industries should be similar—in fact, it is extremely undesirable that they should be part of the same trade group. Some measure of variety is necessary in order to mitigate trade slumps, which in the worst cases may be universal, but in less serious cases are frequently confined to certain groups of goods. Therefore we require on the one hand a certain similarity of some factories to provide choice of employment, pools of trained labour, and so forth, and we require, on the other hand, some measure of variety in order to mitigate trade slumps.

There is advantage to all if a town consists of people of all classes. People with different outlooks, different interests, different ideals, but nevertheless having the common interest of a good town of which they can be proud, and in which they can take an interest. But in the early days of the growth of a New Town it may not be possible to attract the right proportion of professional men and women, the right proportion of people with leisure, to give to public service, and some eye should be cast on the industry which has a high percentage of technical or professional employees to act as a leveller of the type of person in the community as a whole.

#### VALUE OF LOCAL TRADITION

The building up of local tradition is a slow, essential process, and one which, because it has arrived in towns in a haphazard manner, is apt to be overlooked. Local tradition in the professions can be fostered by the interchange of views, by discussion, by the natural inclination of such people to try to impart knowledge. Local tradition of a more empirical order is less easy to pass on, and less easy to create. Manipulation of the hands, of the fingers, the physical working of certain trades, has nothing like so much interest from the point of view of talking about it, nothing like so much technical detail to impart in the form of lectures or tuition, but something which is of great value to be learnt in the way in which the operation is carried out. The great Trade Guilds of this country stretching through the Middle Ages, realised this factor to the full. They fostered skill, they fostered empirical knowledge. Because of the absence of other types of learning, they turned it into something which was regarded as a secret, and indeed it undoubtedly was a secret, since so few people of that stage of national development could find out how something was made by deduction. A lot of this necessity has gone, but the need for building up a traditional way of making shoes, a traditional way of making clothes, a traditional skill in building, traditional skill in furniture manufacture, still remains. Therefore, in choosing the factories to be located in the New Towns, some eye to the need for an underlying tradition must be a factor.

A fresh location demands taking into account the living and working conditions of the personnel. The factories themselves can work more efficiently if they are in open surroundings; if they can have an attractive setting of flowers and grass, their workers can be given first class canteen accommodation. Further, by grouping industry, not necessarily confined to industry of the same kind, a great many common factors can be provided, both for the buildings and the workers. The area can be served under certain conditions by

district heating; electricity and gas can be fed in mains of adequate size, pressure can be maintained, possibly dual or alternative supply can be made available; railway and adequate road facilities can be provided; there can be a central Labour Exchange where the worker can apply for his job in very close proximity to the job itself, and where the staff on the Labour Exchange can inspect the welfare conditions and the general working arrangements of the factory as a whole; internal transport facilities can include the provision of protected bus stations and standing points, frequent bus services, adequate train services and proper facilities for the storage of bicycles. The canteen and welfare conditions of an industrial area can be collected together, and really first class facilities provided for the workers, thereby enabling those in the smallest factory to have amenities on a level with the largest factory.

#### SIZE OF INDUSTRIAL AREAS

There is a great deal of difference of opinion as to the total land area which is likely to be required, when the industrial area is fully developed. These estimates vary from 350/400 acres, up to 700/800 acres. It is anticipated that some 8,000 people out of a population of 50,000 will be employed in factory production of some kind or another. It would seem that the maximum size of a factory, from the point of view of employees, in a town of 50,000 people, would be 500 workers, thus preventing an undue proportion of the workers being attached to one employer and therefore finding themselves unemployed if by any chance they offend that management or get out of work.

Some heavy industries should be included to take advantage of those men physically highly developed, and not necessarily having high mental equipment. The layout should be spacious, so that there are good light and air conditions in every factory. Provision must be made to deal with trade waste and effluent, and with the discharge of such things as smoke and fumes, in a way which will not affect the population. It may be accomplished partly by treatment, partly by the provision of our old friend, the chimney. It would seem that under modern conditions road and rail transport are disproportionate, and that not more than 20/25 per cent. of the factories, at the most, will ever need direct rail access. This gives very great freedom in planning of the individual factories. It can be accepted that the factory today is capable of being designed as an architectural unit, suitable for erection close to main roads and attractive to the public.

A good factory area, or industrial area, in a New Town should include units erected by the town or by a trading estate, capable of being let to tenants who have not yet reached the stage at which they wish to sink their capital in their own building. Alternatively, during a period of growth, many firms prefer to rent a factory until they can ascertain the probable size which will represent their optimum manufacture from the point of view of layout.

While a single industrial area is highly desirable, it does not seem desirable to limit the industrial area to one spot. There may be advantages in having one or two subsidiary areas in different parts of the town, so that as many workers as possible are close to their homes.

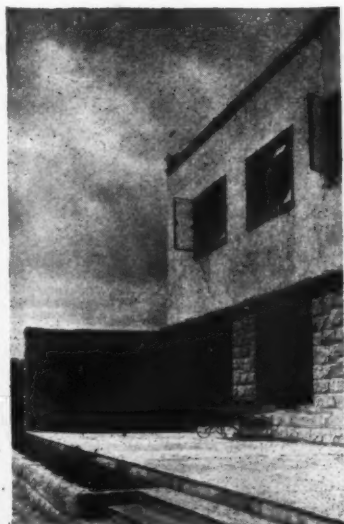
The amenities of the population must grow up side by side with the development of the factory. The population to be happy, satisfied, contented and willing to work hard, must have a good place to work in, a good place to live in, satisfactory places at which to purchase their requirements, and attractive and adequate facilities for indoor and outdoor amusement.



# HOUSE

AT CARRICKMINES, CO. DUBLIN

DESIGNED BY J. ARTHUR DOUGLAS



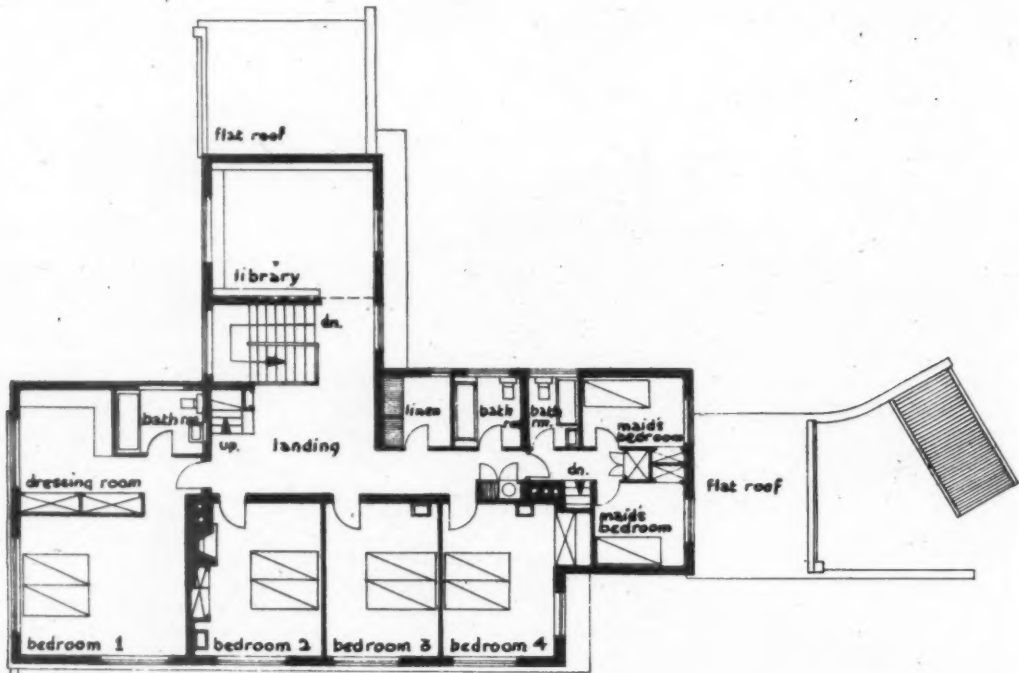
**SITE.**—Approximately 9 miles south of Dublin, the house is planned to be labour saving, light and airy, and to take advantage of the views of the sea to the east and the mountains to the south and west. Other requirements were a large dining and living room suitable for limited entertaining, a small room for family living, a library to be used as a study, a studio, a laundry, and a separate maids' wing, with two bedrooms and bathroom, separate stairs and direct access to the main house.

**CONSTRUCTION.**—Exterior

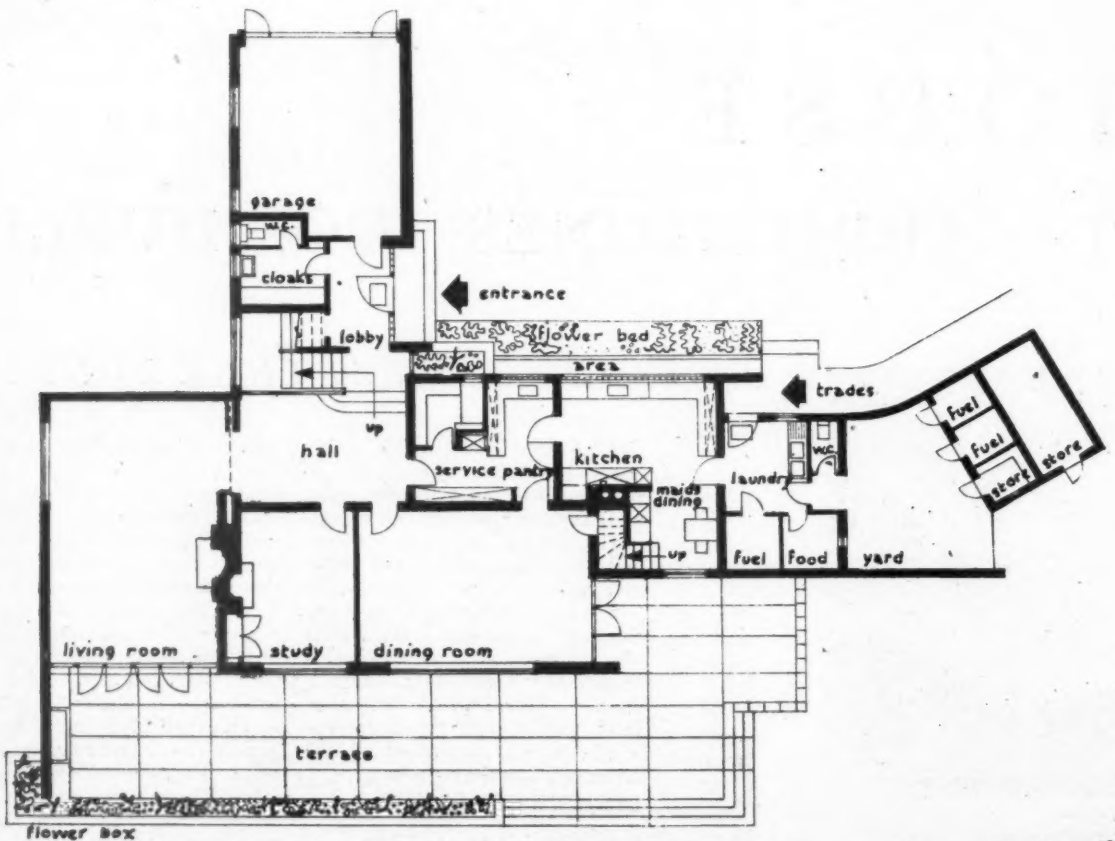
walls 9 in. concrete block and 12 in. local granite, rendered on the inside with  $\frac{1}{2}$  in. of waterproofed cement and insulated with 1 in. cork. Internal walls concrete block. Ground floors concrete, screeded with waterproof cement. Upper floors and roof reinforced concrete rib and slab. Roofs insulated with cork and covered with  $\frac{3}{4}$  in. asphalt. Roof deck and terrace surfaced with coloured concrete divided into squares. Beams and lintols reinforced concrete. Externally the house generally is lime mortar gauged with cream cement and nap finished with a wood float. Portions of south, west and north elevations

*Top, view looking south-west.  
Left, west corner of south front.*





FIRST FLOOR PLAN



GROUND FLOOR PLAN

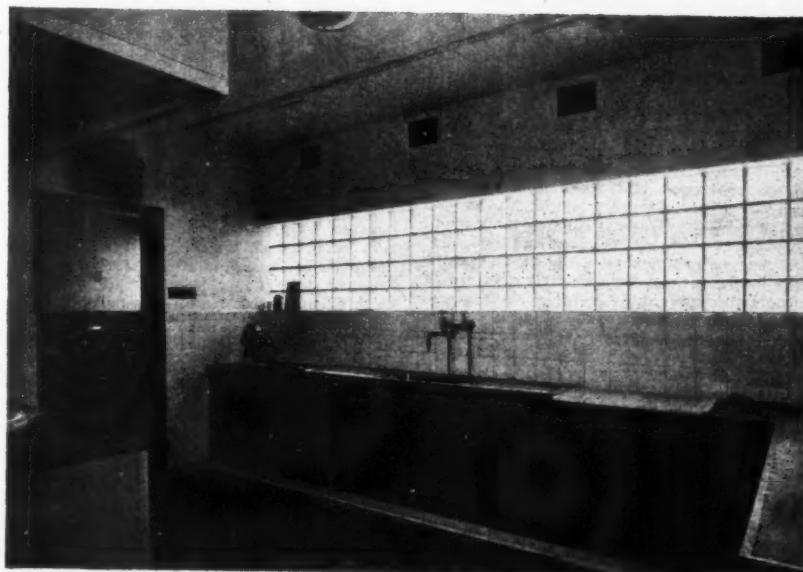
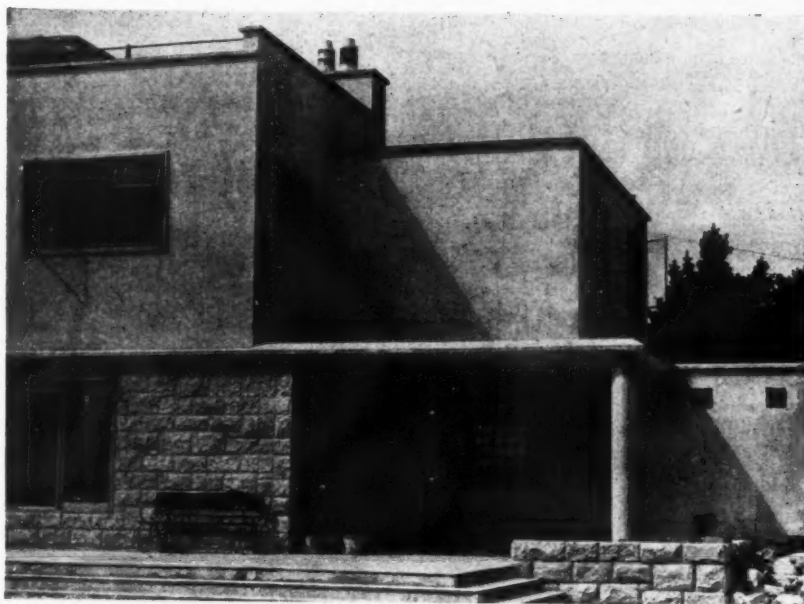
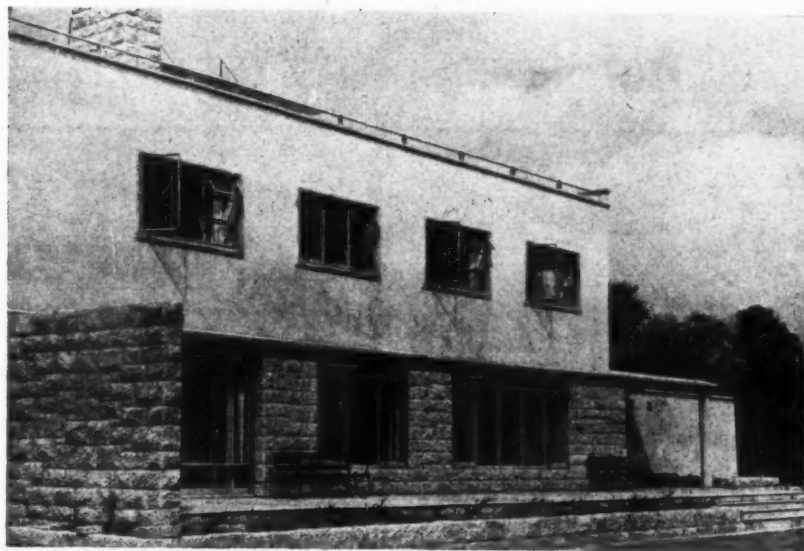


and screen wall are faced in grey local granite with standard sized blocks laid in broken courses with snecks cut from yellow granite taken from excavations for footings. Internal walls generally are finished in plaster; living rooms and hall, matt oil painted light cream. Bedrooms are distempered cream or terra-cotta, kitchen, cloaks and bathrooms have cream tiled dados and are oil painted ivory. Floors: dining room, study and living room oak block wax polished; kitchen wing, blue clay tiles; bathrooms, entrance lobby and cloaks, brown clay tiles; all remaining floors and staircases natural colour cork tiles.

**SERVICES.**—Low voltage radiant ceiling heating throughout. Open fires in living room, study and one of the bedrooms. A solid fuel boiler is provided in maids' dining recess with 80-gallon cylinder directly overhead.



*Above, living room. Right, top and centre, two views of the south front. Right bottom, kitchen.*



HOUSE AT  
CARRICKMINES,  
CO. DUBLIN

## TECHNICAL SECTION

*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

To enable items to be filed all information is classified under the following headings:

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

#### 4.18 planning: urban and rural PLAN FOR BARNES

*Your Barnes.* D. Frank, H. Bursill and R. Albu, edited by L. McNae, maps by N. Howard. (Jason Press, London, 1946, 6d.)

Plan for Borough of Barnes prepared for Barnes Labour Party and adopted as its official policy in June, 1946. Illustrated pamphlet.

The plan is based on the development of three distinct borough areas, Sheen, Mortlake and Barnes, as neighbourhood units, and endeavours to transform a typical London dormitory suburb into a live community. All proposals are based on the assumption that the authorities concerned will have full power to acquire land for planning purposes.

The existing housing shortage is to be relieved by converting suitable property into flats and by building permanent houses on vacant frontages. Densities are to conform to the provisions laid down in the Greater London Plan. Housing standards as put forward in the Dudley Report (Design of Dwellings, Ministry of Health, 1944, 1s.) are to serve as a yard-stick. There is a strong case in the district for the early erection of hostels to accommodate single persons and for the provision of housing for old people. Recommendations are put forward for higher standards of equipment and fittings as a result of a local survey of existing conditions.

Suggested improvements cover the following planning aspects: provision of open spaces and village greens; the erection of two community centres; the adaptation of transport facilities to up-to-date and future requirements; the setting-up of a trading estate in order to remove scattered local industries from residential areas; and the reorganization of public health and educational facilities.

This well-produced and amply illustrated pamphlet is based on serious investigations and intended to rouse the citizens' interest in their own borough. It is a useful contribution towards the campaign for planning publicity.

#### 10.15 design: building types RADIO HOUSE

*Broadcasting Centre.* Vilhelm Lauritzen. (The Architectural Forum [USA], June, 1947, pp. 69-73.)

Short description of Radio House, Copenhagen, completed in 1945.

The broadcasting centre consists of three main parts: an office block, a large concert hall and a block of studios connecting the two. Most interesting is the concert hall, roofed with two concentric shells, the outer one 4.8 in., the inner one only 2.4 in. thick. This inner shell is undulated to break up sound reflections. The central block is a group of polygonal studios, erected within, but structurally isolated from the outer envelope. The envelope uses the earth fill of a roof garden as an insulation against external sound. Greatest care has been taken to ensure favourable acoustical properties in each part.

#### 19.24 construction: details ALUMINIUM ROOF TRUSSES

*Aluminium Roof Trusses for an Engine-house.* (Engineering News-Record [USA], May 15, 1947, pp. 820-1.)

Steel roof trusses, corroded to the point of failure by locomotive gases, replaced by all-aluminium, shop-fabricated trusses.

Four 57 ft. span steel trusses at the East St. Louis enginehouse of the Alton and Southern R.R., erected in 1912, became so badly corroded by 1945 as to threaten a collapse. In the new construction aluminium alloy "Alcoa 61 S-T" was substituted for structural steel without redesigning the trusses other than reducing the stresses. The greatest increase in cross section occurred in the top chord. No cost comparison is available between the aluminium trusses as erected and structural steel trusses as originally designed. The ratio of weight is 1 to 2.36. To retard future corrosion, the new trusses received one shop coat of zinc chromate paint and two field coats of aluminium paint.

#### 21.9 construction: miscellaneous REPAIR OF CHURCHES

*Structural Care of Ancient Churches.* Leslie M. Moore. (The Builder, June 20, 1947, pp. 619-622.)

Recommendations for dealing with decay caused by damp, corrosion of iron, repair-

ing and rebuilding walls, restoring roofs, treatment of woodwork.

#### 21.10 construction: miscellaneous FIRE SAFETY

*How Fire-Safe is a Fireproof Building.* John J. Ahern. (Engineering News-Record [USA], June 12, 1947, pp. 942-5.)

Basic requirements of fire-safety of buildings for human occupants.

Based on the experience with the recent catastrophes in the La Salle and Wincoft hotels (see Nos. 17.11, 21.4), the author discusses the reasons for the failure of so-called "fireproof" buildings to protect human lives. They are: excessive amounts of combustible materials, unprotected vertical openings, inadequate exit facilities, and lack of automatic detection and extinguishing devices.

#### 23.34 heating and ventilation SOLAR HEATING

*The Solar House.* F. W. Hutchinson (Progressive Architecture [USA], May, 1947.)

Discussion based on research at Purdue. Theoretical analysis of operation of sun heat clearly explains fundamental points which may be of interest in England though conditions here are different. Fuel consumption figures from two test houses not yet available.

#### 26.8 services and equipment: miscellaneous ELECTRIC WIRING

*Self-supporting cables.* New System for Factory Installations. (Electrical Times, June 19th, 1947.)

New type of cable which has electric conductors laid round a central reinforcing wire. This wire is then used as a straining wire for supporting the cable and junction boxes and sometimes the light fittings. For factories where exposed wiring is not objected to there seem considerable advantages which this brief article outlines.

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

## QUESTIONS AND ANSWERS

#### 2907 APPROXIMATE ESTIMATING

**Q** What are rough estimates for the costs of buildings based on? Are computations usually based on the cubic contents or floor area?

**A** Most rough estimates are prepared on the basis of the cube; the extreme area to outsides of external walls being multiplied by the height measured from the top of the concrete foundations to 2 ft. above flat roofs, or half way up pitched roofs. In other cases, more particularly buildings such as factories, where an increase or decrease in height would not increase or decrease the cost *pro rata*, rough estimates are frequently based upon the floor area, measured between external walls. In all such cases the price per foot cube or per foot super must of course depend upon the type of building under consideration, its construction, finish, etc.

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Painting by Doris Zinkeisen

## This Present Age . . 4

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unequalled by any other country. It is an achievement and a vindication of our freedom of which the nation should be proud. Flexibility and adaptability have been characteristics in the evolution of our industry and the most up-to-date methods are now being applied to all phases of the organisation to ensure continuity of maximum production. Our future plans rely on the resolve expressed in the Atlantic Charter, "to procure collaboration among all nations in the economic field." We support the natural desires for further reforms in our social conditions, but the economic state of our business must be one means to attain these ends.



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The following tables summarise the official statistics on housing progress, the production of building materials and the labour position.

## HOUSING, MATERIALS AND LABOUR

[by Ian Bowen]

### HOUSING

TABLE I PERMANENT HOUSES IN GREAT BRITAIN: Cumulative Totals

	Begun			Finished		
	Local Authorities	Private Builders	Total	Local Authorities	Private Builders	Total
To Dec., 1945	20,409	—	—	1,657	1,031	2,688
1946: July	97,126	44,878	142,004	6,530	10,911	17,441
Aug.	112,491	48,841	161,332	8,335	13,670	22,005
Sept.	130,705	52,218	182,923	10,902	17,394	28,296
Oct.	150,882	55,800	206,682	14,570	21,177	35,747
Nov.	165,447	58,581	224,028	18,459	24,639	43,098
Dec.	178,379	61,293	239,672	23,923	28,175	52,098
1947: Jan.	190,340	63,319	253,659	28,440	31,609	60,049
Feb.	197,938	64,459	262,397	30,607	33,278	63,885
March	205,159	65,864	271,023	34,436	35,430	69,866
April	218,815	67,826	286,641	40,425	38,184	78,609
May	234,395	70,684	305,079	47,726	41,465	89,191
June	250,292	73,181	323,473	55,642	44,356	99,998
Increase of June over May	15,897	2,497	18,394	7,916	2,891	10,807
Total at June 30, 1947				Under Construction	Finished	
Local Authorities	..	..	..	194,650	55,642	
Private Builders	..	..	..	28,825	44,356	
War-destroyed rebuilt	..	..	..	16,847	11,355	
Government Departments	..	..	..	1,964	234	
Total	..	..	..	242,286	111,587	

TABLE II TEMPORARY HOUSES IN GREAT BRITAIN: Cumulative Totals

	Slabbing Begun	Slabbing Completed	Erection Begun	Erection Completed
To Dec., 1945	61,008	39,998	22,932	9,376
1946: July	108,374	92,100	69,057	40,425
Aug.	114,016	98,744	76,519	47,176
Sept.	117,422	103,700	83,725	57,040
Oct.	122,742	109,368	93,201	70,121
Nov.	128,238	112,837	98,650	80,135
Dec.	131,646	115,711	103,796	92,306
1947: Jan.	134,023	118,451	107,214	97,070
Feb.	136,238	118,734	109,033	99,461
March	137,992	119,759	111,002	101,717
April	140,333	123,757	115,186	106,664
May	141,786	127,270	118,653	111,029
June	143,769	130,735	122,353	115,086
Increase of June over May	1,983	3,465	3,700	4,057

Temporary Houses Under Construction at June 30: 7,267.

TABLE III NON-TRADITIONAL PERMANENT HOUSES (ALREADY INCLUDED IN TABLE I) GREAT BRITAIN: Cumulative Totals

	Begun	Completed
To end Jan., 1947	34,457	4,183
Feb.	36,083	4,627
March	38,159	5,495
April	42,170	6,687
May	46,793	8,281
June	52,075	10,009

Non-traditional Houses Under Construction at June 30: 42,066

TABLE IV HOUSING ACCOMMODATION PROVIDED OTHERWISE THAN BY NEW BUILDING: Cumulative Totals

	Unoccupied War-Damaged Houses Repaired	Conversions and Adaptations
To end Jan. 1947	110,149	38,693
Feb.	111,955	40,653
March	114,117	42,826
April	116,772	44,909
May	119,062	47,294
June	121,836	49,616
Increase of June over May	2,774	2,322

\* Emergency Huts (programme finished August 1946) provided for a further 3,480 families.

### BUILDING MATERIALS

TABLE V PRODUCTION AND STOCK†

Material	Unit	April-June, 1946		April-June, 1947	
		Pro-duction	Stocks‡	Pro-duction	Stocks‡
Cement	th. tons	(monthly average) 569	240	(monthly average) 574	191
Bricks	millions	265	379	381	307
Roofing materials					
Clay tiles	th. squares	33.5	34.2	60.3	36.9
Concrete tiles	"	19.4	30.8	51.4	64.0
Slates	"	23.0	40.4	—	—
Asbestos cement sheeting	th. tons	26.7	—	27.0	—
Roofing felt	th. rolls of 24 sq. yds.	192	155	223	110
Ceilings, Wall Linings and Floorings					
Plaster gypaceous	th. tons	15.3	—	15.4	—
Plasterboard	th. sq. yds.	3,026	342	3,380	233
Tiles					
Glazed	th. sq. yds.	425	—	520	—
Floor (Clay)	"	93.3	—	168	—
Pipes (Water, Gas, etc.)					
Lead	th. tons	4.10	—	3.82	—
Copper	"	2.39	—	3.00	—
Soil Pipes (cast iron)	"	1.4	—	2.61	—
" (Asbestos Cement)	"	—	—	.37	—
Drain Pipes, Salt Glazed	"	31.2	—	40.5	—
Rainwater Goods, Gutters and Fittings					
Cast Iron and Pressed Steel	th. of equiv. tons of cast iron	2.73	—	5.42	—
Asbestos Cement Goods	th. tons	—	—	1.85	—
Manhole Covers and Frames	th. of equiv. tons of cast iron	2.92	—	3.27	—
Metal Windows	Mn. ft. sup.	2.67	1.97	4.28	3.60
Sanitary Fittings	thousands	22.6	—	30.0	—
Baths	"	64.8	—	81.2	—
Lavatory Basins	"	46.1	—	57.6	—
Sinks	"	74.6	—	95.1	—
W.C. Pans	"	10.0	—	23.1	—
Cookers	"	12.5	—	17.9	—
Solid Fuel	"	28.3	—	32.4	—
Electric	"	47.1	—	77.4	—
Gas	"	15.4	—	14.7	—
Fires, Solid Fuel	"	36.0	—	32.9	—
Wash Boilers	"	2.7	—	5.2	—
Electric	"	0.14	—	1.72	—
Gas	"	—	—	—	—
Furnace Pans (Solid Fuel)	thousands	—	—	—	—
Solid Fuel	"	—	—	—	—
Softwood Timber (Imports and Home Produced)	th. stds.	49.8	310.1	126.9‡	106.5*

† At end of period.

‡ Imports only.

\* May figures

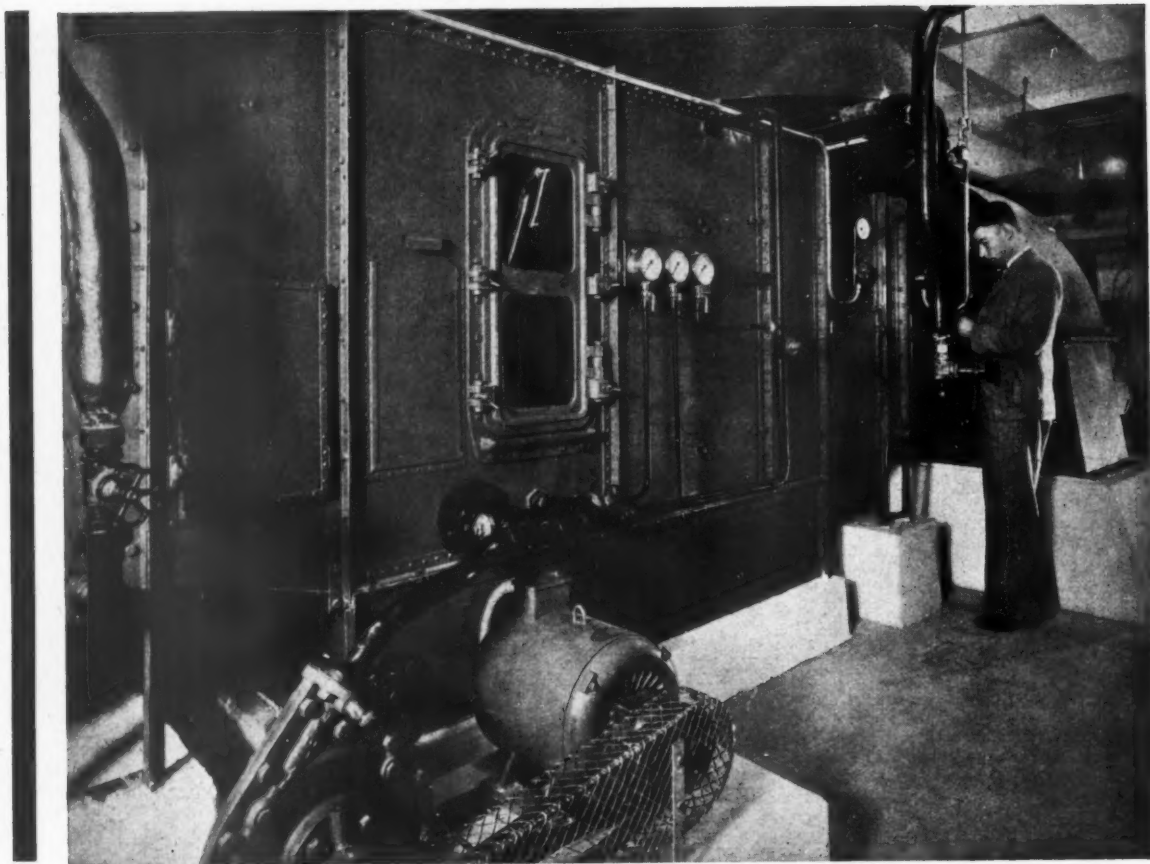
### LABOUR

TABLE VI BUILDING AND CIVIL ENGINEERING LABOUR IN GREAT BRITAIN: Operatives Employed, aged 16 and over†

Type of Work	July, 1945	June, 1946	June, 1947*
Total	535.0	890.0	975.0
Housing	343.9	566.2	531.2
Permanent (Construction, and preparation of sites)	17.4	151.5	240.6
Temporary	14.5	39.2	11.9
Other (repairs, etc.)	312.0	375.5	278.7
Other Work	191.1	323.8	443.8

\* Provisional. † In thousands.





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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]

### DRY ROT CURES

Just how many of the buildings in our larger towns and cities are now affected by dry rot is anyone's guess. Authoritative timber technicians have suggested that dry rot spores are probably present in nearly all urban buildings, but do not germinate because the buildings are reasonably weather-tight. This seems a reasonable enough theory, but the trouble is that the majority of bomb-damaged buildings are anything but weather-tight, and one may hazard a guess that dry rot is active in nearly all the buildings where damaged roofs did not get first aid repairs pretty promptly. Added to this, the well-meaning efforts of the N.F.S. almost certainly succeeded in putting the moisture content above the 20 per cent. without which the spores cannot germinate. But whatever the reasons, it is broadly true to say that on any survey job, where one used to look for dry rot without really expecting to find it, one now assumes it to be active on any job where the windows have been out or the roof damaged, and one is very seldom wrong.

The major difficulty in the eradication of dry rot is probably that of persuading the client that the job is not a question of doing as little as possible and hoping for the best, but must be looked on as a major operation if the trouble is not to start afresh in a year or two. With war damage claims especially, builders are often afraid to cut the infected wood back as far as they know they should in case the local surveyor should say they have overdone it. The job is then finished off by waving a blowlamp at any adjacent brickwork and creosoting all round. I have no idea of the temperature required to kill dry rot spores and rootlets, but I would guess it as not less than 100° C., and unless the lethal temperature is reached at the centre, or even the other side of the wall, it is completely useless. Merely to take the chill off the surface is about as effective as the hyssop, scarlet, cedar and blood of a new slain bird specified about 4,000 years ago by Moses in, I think, Leviticus.

The only method which has any hope of success is to cut out all infected timber at once and burn it, thereafter making the building weather-tight and providing extra ventilation for wet timber. Even this can be no guarantee, for the threads (mycelium) can work through a brick wall if the next-door house is infected, carrying their own moisture with them and weeping on dry timber until the moisture content is once more over the 20 per cent. critical figure, when the whole process starts over again. Some form of sterilization is therefore a necessity, and it should also be applied to the new replacement timber. A new firm called Pestcure claims to have found some-

thing pretty effective, and as they have several very able technicians who have been doing this sort of job for 25 years or more, their claims seem worth investigating. They do the work themselves, which seems to me a better method than selling something in a tin for someone else to apply, and they also have insecticides for woodworm, death watch, and lyctus beetle. (Pestcure Ltd., Dacre House, Victoria Street, London, S.W.1.)

### BUILDINGS IN LIGHT ALLOY

An interesting transportable aluminium building has recently been developed by Structural and Mechanical Development Engineers Ltd., one of the limbs of Mr. Devereux's new Almin group of companies. First used at the Cambridge County show, a larger version was used to house the Ministry of Agriculture display at the Royal Show at Lincoln. Here the building was 350 feet long and L-shaped on plan, the photograph showing the building in course of erection. Light alloy portal frames are used at 9 foot centres, and give a clear span of 37 feet with 9 ft. 3 in. headroom. Walls and roofs are covered with corrugated sheeting of the same material, lighting being arranged with perspex panels in the roof or windows in the wall sections. Access can be obtained by omitting the wall sheeting, but it is necessary to give the structure adequate longitudinal stiffness, and braced panels are available to be used when several openings make extra stiffness necessary. The section gives the essential information. This particular building had a canvas fascia all round it for display purposes, and the framing for this is not, of course, anything to do with the structure.

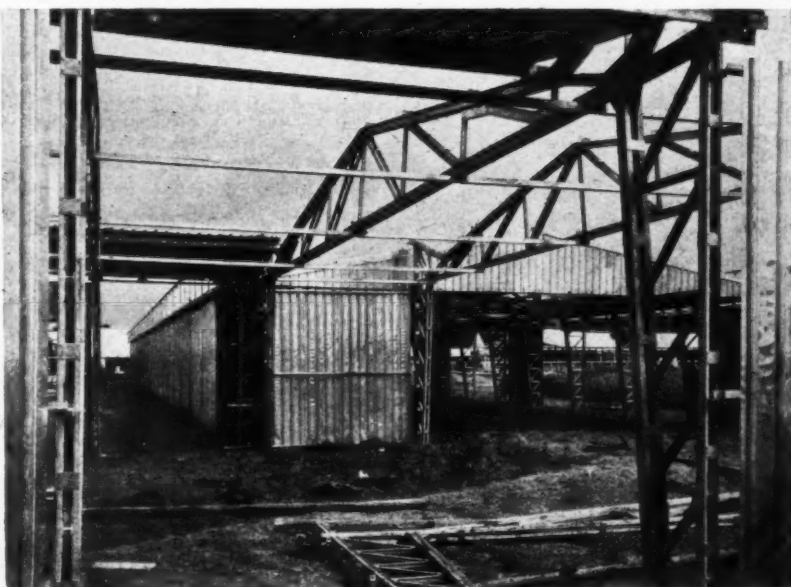
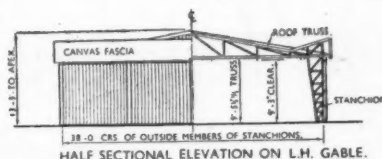
Erection is comparatively simple, since no single part weighs more than 100 pounds, and this particular building was put up by unskilled labour in nine days. Temporary buildings of this kind are nearly always timber frame with some sort of sheet covering, and tend to suffer a good deal of damage when they are dismantled. This particular structure is bolted and clipped, and it should be possible to use it any number of times. One interesting and not immediately obvious point is that the high reflectivity of the aluminium sheeting keeps the interior of the building cool in hot weather, a detail which habitual visitors to summer exhibitions will be the first to appreciate. (Structural and Mechanical Development Engineers Ltd., Slough, Bucks.)

### CONCRETE FLOORS

I have just received from the architectural and structural department of the Cement and Concrete Association a useful series of nine data sheets dealing with concrete floor finishes. After some general notes dealing with the preparation of sub floors, aggregates, proportions of mix, placing and finishing, further information covers ordinary fine concrete, terrazzo and granolithic finishes, and concrete used over wooden sub floors. The rest of the sheets cover the use of abrasives for non-slip purposes and various types of surface treatment. A useful and clearly set out series contains plenty of information in a small space. (The Cement and Concrete Association, 52, Grosvenor Gardens, London, S.W.1.)

### THREE PIN SOCKETS

I have already referred to the new BSS for the standard 3 KW socket which is intended to be the universal fitting for portable domestic equipment, and to be used with a ring main. The specification has now been published (No. 1363:1947, price 2s. 6d.), and shows that the pins are arranged on a triangular plan, but are rectangular in section so that the old type unfused round-pin plugs cannot be used. The socket is also shuttered so that curious infants with hairpins cannot commit suicide. Much of the specification is naturally concerned with manufacturing tolerances, and should be read in conjunction with BSS 1362:1947 (2s.), which covers the fuse links to be used in the third pin of the plug. It is possible to argue that users can easily fit a 13-amp. fuse in a plug feeding a floor standard, but it is impossible to legislate against wilful abuse of this kind, any more than gas companies can be expected to stop customers putting their heads in the oven. No sockets to this specification are as yet on the market, but I have seen one or two prototypes which will be illustrated here as soon as the manufacturers are prepared to release the information. (British Standards Institution, 28, Victoria Street, London, S.W.1.)



Transportable aluminium building showing junction between two arms of the L-shaped plan.

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

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## Announcements Buildings Illustrated

Mr. A. L. Archavir, A.R.I.B.A., of 35, Moorland Road, Didsbury, Manchester, 20, would be glad to receive trade literature, catalogues, etc.

Lt.-Col. E. Vigor, R.E., has been appointed to the Board of the Neuchatel Asphalte Co., Ltd., in the place of Mr. R. A. Daniell who has resigned.

Mr. R. C. A. Lee (ex. Capt., R.E.), L.R.I.B.A., A.F.A.S., late of the Denbighshire County Council, has now commenced private practice under the name of R. Cresswell A. Lee, chartered architect and surveyor, County Court Buildings, Egerton Street, Wrexham (telephone 2835), and would be glad to receive trade catalogues and technical information.

Major R. Carton Tickell, DIP.ARCH. (LVPL.), A.R.I.B.A., has been appointed Resident Engineer, Eastern District, to the Imperial War Graves Commission. Responsible for the Commission's technical work in Turkey, Syria, Palestine, Iraq, Iran and Egypt, his address will be P.O. Box 316, Cairo, Egypt.

The Timber Control announces that Mr. Stanley Meggitt, who joined the Control as Area Officer, Area 17 (Cardiff) on its inception, has relinquished that appointment as from July 31, 1947. He will be succeeded by Mr. C. R. Daniel, who has been Secretary of that office since its inception.

Service Electric Co. Ltd., pending the completion of their new factory, have secured extensive office, works, and store accommodation at Water Road, Alperton, Middlesex (Phone: PERivale 7251).

O. M. Marcel, I.T.N., M.SOC.E. (FRANCE), Consulting Engineer, has now moved to new offices at 379, Chiswick High Road, London, W.4. Tel.: Chiswick 5261.

House. "Knocknashane," Brenanstown Road, Carrickmines, Co. Dublin. (Pages 169-171). Architect, J. Arthur Douglas, M.R.I.A.I. General contractor, J. E. Moore, who was also responsible for the stonework, joinery, built-in furniture, etc. Sub-contractors: John McGowan & Sons, Ltd., asphalt; Thos. Pearson & Co., reinforcement; Norman MacNaughton & Sons, Ltd., cork piles; Verso Bros., floor and wall tiling; A. W. Lyons & Sons, Ltd., glass; E. Shepherd, woodblock flooring; Electricity Supply Board, electric wiring and electric heating; Davis King & Co. and J. L. Smallman, Ltd., sanitary fittings; Maas' Bureau, door furniture; J. & C. McGloughlin, Ltd., casements and metal work.

## Obituary

We regret to record the death on August 5, of Mr. J. Andrew Minty, F.R.I.B.A. His work included the Wallace Memorial at Elderslie, near Glasgow, the Almshouses at Wareham, Dorset, country houses, the Connaught General Hospital, Walthamstow, St. Francis Church, Boreham Wood, the restoration of St. George's Presbyterian Church, Leytonstone, the Parish Church at Leyton, and the restoration of Regent's Square, Streatham.

## Correction

The design of the curtains for the School at Ruislip illustrated in our issue for July 24 should have been attributed to Evelyn Hunt.

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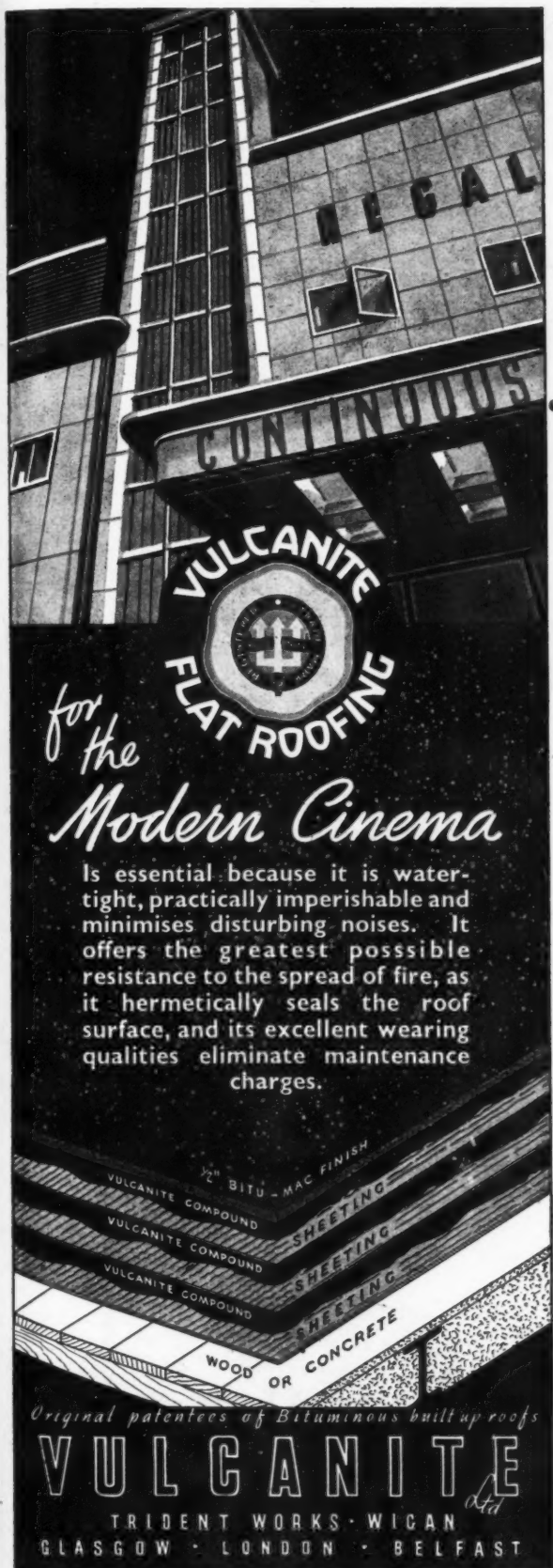
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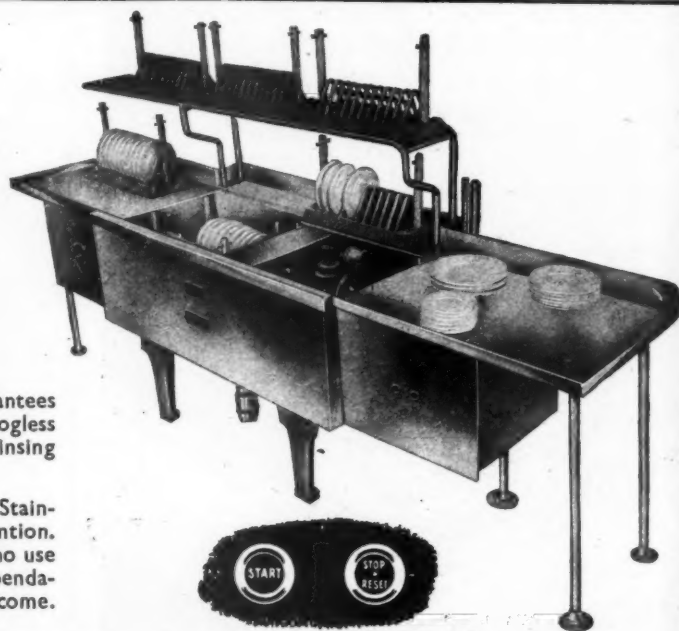
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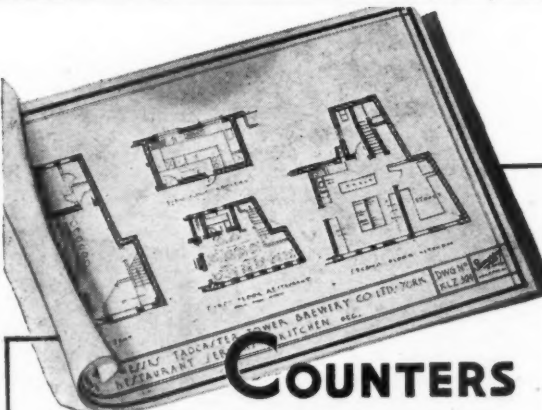
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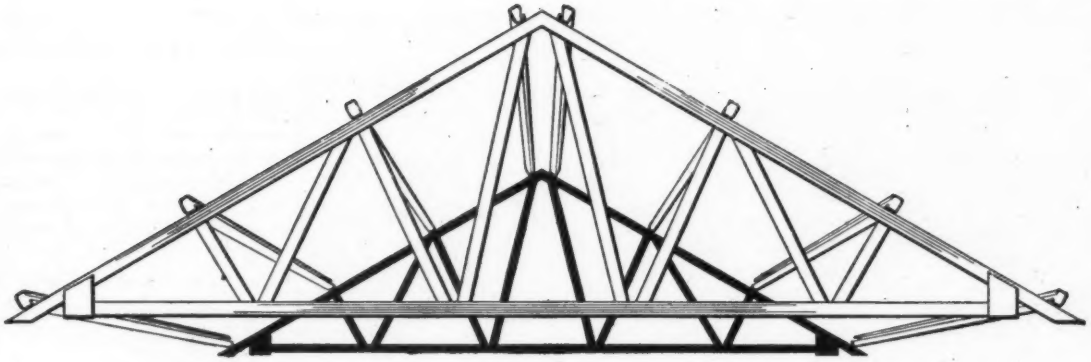
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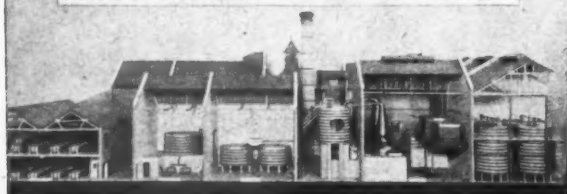
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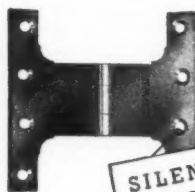
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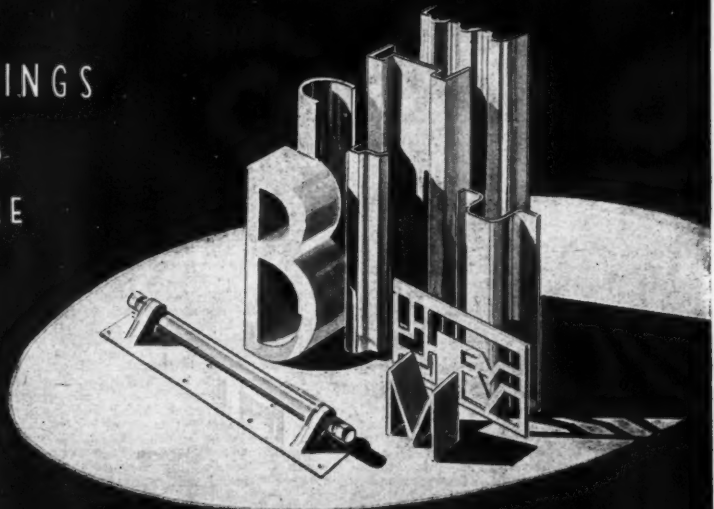
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

## Public and Official Announcements

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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. 591

## LONDON COUNTY COUNCIL. COUNTY OF LONDON PLAN-VACANCIES FOR PLANNING STAFF.

Applications are invited for positions in the following grades—  
PLANNING OFFICER, Grade III, up to £700 a year.

TECHNICAL ASSISTANT, up to £580 a year. Commencing rate according to qualifications and experience. Opportunities for competing for permanent appointment and promotion. Successful candidates will be superannuable.

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, surveying or town planning qualifications.

Application forms obtainable from Architect to the Council, County Hall, S.E.1 (enclose stamped addressed envelope), returnable not later than 10 days from this date.

Canvassing disqualifies. (1680) 535

## CORPORATION OF GLASGOW—HOUSING DEPARTMENT.

Applications are invited for appointments as QUANTITY SURVEYORS.

Applicants should have experience in taking off quantities from plans, preparing schedules and specifications, making up payments, probable costs and valuations, measuring up and adjusting final measurements for all trades and for all classes of work, and should have some knowledge of the analysis of builders' prices.

The appointments are permanent, and the successful applicants will require to pass a medical examination for admission to the Corporation Superannuation Scheme.

The salary scales for Technical Assistants in the Corporation are covered by A.P.T. Grades I to VI, of the National Scheme of Salaries, and the persons appointed will be placed within these grades according to qualifications, age, and experience. The minimum salary for A.P.T. Grade I, is £330 per annum, and the maximum salary for A.P.T. Grade VI, is £600 per annum (in both cases plus war increase of £60 per annum).

Applications, stating age, particulars of training, experience, and qualifications, should be addressed to the undersigned, and should be received not later than 30th August 1947.

RONALD BRADBURY,

Director of Housing.

Housing Department, 20, Trongate, Glasgow, C.1. 593

## UXBRIDGE URBAN DISTRICT COUNCIL. ENGINEER'S AND SURVEYOR'S DEPARTMENT.

### APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applications are invited for the above appointment, on the unestablished staff of the Council, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale (£410 to £455 per annum, including London weighting, plus cost-of-living bonus, at present £59 16s.). Applicants should be Registered Architects, with a good general architectural experience, especially in the design of small dwellings, and preference will be given to applicants holding a recognized professional qualification.

The appointment will be subject to the National Joint Council Scheme of Conditions of Service, to the provisions of the Local Government Superannuation Act, 1937, to the passing of a medical examination, and to one month's notice on either side. Applications, endorsed "Architectural Assistant," stating age, whether married or single, present and previous appointments, qualifications, and giving details of experience, together with the names and addresses of three persons to whom reference may be made, should be forwarded to H. E. G. Stripp, Esq., A.M.I.C.E., F.S.I., Engineer and Surveyor, 263, High Street, Uxbridge, not later than 6th September, 1947. Candidates are required to disclose in writing whether to their knowledge they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will disqualify.

JOHN POOLE, Clerk of the Council.

Council Offices, Uxbridge. 8th August, 1947. 562

## BRECONSHIRE JOINT PLANNING COMMITTEE.

Applications are invited for the post of TECHNICAL ASSISTANT to the above Committee, at a salary in accordance with Grade III of the A.P. and T. Division of the National Scale of Salaries (£390 per annum, rising by annual increments of £15 per annum to £435 per annum), plus cost-of-living bonus, at present £59 16s. per annum.

Preference will be given to applicants who have passed the Intermediate Examination of the Town Planning Institute, and have practical experience of the preparation of planning schemes and Interim Development control.

The post is superannuable, and is terminable by one month's notice on either side.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

Applications, stating age, qualifications and experience, with the names and addresses of two referees, should reach the undersigned not later than 26th August, 1947.

C. M. S. WELLS,

Clerk of the Committee.

County Hall, Brecon. 544

## WEST SUFFOLK COUNTY COUNCIL.

Applications are invited for the under-mentioned appointments in the County Architect's Department. Salaries as indicated in accordance with the National Joint Council Salary scales, plus war bonus (at present £60 per annum); position on scales according to qualifications, viz.:

(a) ENGINEERING ASSISTANT, A.P.T., Grade VI (£535-£600).

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

Travelling allowance in accordance with County Scale.

Candidates in respect of (a) must be fully experienced in the design and supervision of modern heating, hot water, and ventilation systems of all types for local authority buildings, and possess sound knowledge of all mechanical equipment connected therewith. Preference will be given to candidates who have also had experience in design of electric lighting and power installation.

Candidates in respect of (b) must be Registered Architects, preferably Associates of the Royal Institute of British Architects. They must be thoroughly experienced in architectural design and capable of preparing preliminary sketch plans, complete working drawings and specifications, without supervision.

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

Forms of application may be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than Tuesday, 9th September, 1947.

L. G. H. MUNSBY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds. 532

## ADMINISTRATIVE COUNTY OF LONDON. APPOINTMENT OF DEPUTY ARCHITECT TO THE LONDON COUNTY COUNCIL.

The London County Council invites applications for the appointment of Deputy Architect to the Council. Salary £2,000, by £250 biennially, to £2,500; there are no age limits for candidates. The person appointed will be subject to the Council's Superannuation and Provident Fund Scheme.

The Architect to the Council and the Superintending Architect of Metropolitan Buildings is responsible for the erection and maintenance of all buildings and architectural works of the Council, with certain exceptions, and for general advice on Town Planning, including the preparation of the Development Plan for the County of London.

Forms of application (stamped addressed foolscap envelope necessary) obtainable from the Clerk of the Council (K), the County Hall, Westminster Bridge, London, S.E.1. Application forms returnable by 30th September, 1947. Canvassing disqualifies. (2586.) 551

## BOROUGH OF SWINDON.

### APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited for the appointment of Borough Architect, at a salary of £1,250 per annum, plus such cost-of-living bonus as may from time to time be paid by the Corporation (present £59 16s.).

The fixing of a scale for the post will be considered by the Council in due course.

The appointment, which may be terminable by three months' notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination. The Council will assist the successful applicant to secure housing accommodation if required.

The person appointed will be required to devote the whole of his time to the service of the Corporation and not to engage in private practice.

Application forms are obtainable from the undersigned, to whom they must be returned duly completed not later than Saturday, the 30th August, 1947.

Canvassing in any form will be deemed a disqualification.

D. MURRAY JOHN, Town Clerk.

Civic Offices, Swindon. 1st August, 1947. 537

## METROPOLITAN BOROUGH OF PADDINGTON.

### HOUSING DEPARTMENT.

### APPOINTMENTS OF (a) SENIOR ARCHITECTURAL ASSISTANT, (b) JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointments on the permanent establishment of the Council.

(a) SENIOR ARCHITECTURAL ASSISTANT. This appointment will be at a salary within Grades IV and V of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, viz., £420, rising by annual increments of £15, with a final increment of £20, to £510 per annum, plus London "weighting" (£20 per annum), and cost-of-living bonus, at present £59 16s. (£48 2s. for women).

Applicants must be Registered Architects, preferably Associates of the Royal Institute of British Architects, and have had extensive experience in architectural design and construction of general municipal work, including multi-storey flats.

(b) JUNIOR ARCHITECTURAL ASSISTANT. The salary for this appointment will be within Miscellaneous Division, Grade II and Grade I, of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, viz., £315, rising by annual increments of £15 to £375 per annum, appropriate to the successful candidate's qualification and experience, plus London "weighting" (£20 per annum) and cost-of-living bonus.

Applicants must have passed or be about to sit for the Intermediate examination of the Royal Institute of British Architects, be used to preparing working and detail drawings, and be good draughtsmen.

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope. Applicants should indicate clearly which appointment it is proposed to apply for.

Applications, accompanied by copies of three recent testimonials, must be received by me not later than 8th September, 1947.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2. 550

## CARDIGANSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff, in accordance with the National Scale of Salaries—

(a) QUANTITY SURVEYOR, Grade IV, plus cost-of-living bonus (at present £59 16s. per annum).

(b) ARCHITECTURAL ASSISTANT, Grade IV, plus cost-of-living bonus (at present £59 16s. per annum).

Applicants for (a) must have experience in preparation of Bills of Materials, Specifications, Estimates and Settlement of Final Accounts, and must have passed the final examination of the Chartered Surveyors' Institute in Quantities.

Those for (b) must have experience in design and construction of modern school buildings. Preference will be given to those who have passed whole or part of the R.I.B.A. Final Examination.

Applications, stating age, qualifications, experience, present position and salary, together with not more than three recent testimonials, should be sent to the County Architect, County Hall, Aberaeron, Cardiganshire, not later than 20th September, 1947.

IVOR EVANS,

Clerk of the Council.

County Council Offices, Aberystwyth. 591

## SOMERSET COUNTY COUNCIL. APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

Applications are invited for the appointment of Deputy County Architect, at a salary of £1,000 per annum, rising by annual increments of £50 to £1,200 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates must have passed the qualifying examination for A.R.I.B.A., must be competent Architects proficient in design and experience of the work of a Public Architect's Department. Only candidates with experience in the control of Staff and Committee procedure need apply. The duties will include deputising for the County Architect at Committees, Conferences, etc., at occasion demands.

The appointment will be subject to the rules and regulations of the County Council from time to time in force, the provisions 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.

Applications, stating age, training, experience and qualifications, together with copies of three recent testimonials, should be sent to the undersigned not later than the 13th September, 1947.

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 County Council or to a holder of any senior office under the Council.

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

Park Street, Taunton, Somerset. August, 1947. 579



## CAMBRIDGESHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.  
Applications are invited for the following appointments in the recently formed County Planning Department:—

**TWO PLANNING OFFICERS.** A.P.T., Grade VIII (salary £625-£700), plus cost-of-living bonus. One Officer will be primarily concerned with the preparation of development plans, the other with the administration of development control.

**SURVEY AND RESEARCH OFFICER.** A.P.T., Grade VII (salary £575-£650), plus cost-of-living bonus.

**ESTATE OFFICER.** A.P.T., Grade VII (salary £575-£650), plus cost-of-living bonus.

**CHIEF ADMINISTRATIVE CLERK.** A.P.T., Grade VII (salary £575-£650), plus cost-of-living bonus.

**LANDSCAPE ARCHITECT.** A.P.T., Grade VI (salary £535-£600), plus cost-of-living bonus.

**PLANNING ASSISTANT.** with knowledge of Public Relations and Educational Work in Planning. A.P.T., Grade VI (salary £535-£600), all plus cost-of-living bonus.

**MODEL MAKER.** A.P.T., Grade IV (salary £420-£465), plus cost-of-living bonus.

**PLANNING ASSISTANTS AND DRAWING OFFICE STAFF.** A.P.T., Grade VI salary £535-£600; A.P.T., Grade V (salary £460-£510); A.P.T., Grade IV (salary £420-£465); M.D. Grade II (salary £315-£360); M.D. Grade I (salary £285-£300), all plus cost-of-living bonus.

Full particulars of the appointments, together with application forms, may be obtained from the undersigned, to whom the application forms must be returned not later than Monday, the 15th September, 1947.

CHARLES PRYTHIAN,  
Clerk of the County Council.

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## CIVIL SERVICE COMMISSION.

Applications are invited from suitably qualified men and women for the post of SECRETARY OF THE ROYAL FINE ART COMMISSION. Other things being equal, preference will be given to candidates between 30 and 45 years of age; but candidates with exceptional qualifications outside these age limits will be considered. Candidates must possess administrative ability, and must have a comprehensive knowledge of and interest in the fine arts generally; architectural qualifications are especially important. Inclusive salary, £1,500 a year for a man, slightly less for a woman.

Further particulars and an application form are obtainable from the Secretary, Civil Service Commission, Burlington Gardens, London, W.1, quoting No. 1971. The completed application form must be returned not later than 30th September, 1947.

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## COUNTY COUNCIL OF DURHAM.

COUNTY PLANNING DEPARTMENT.  
Applications are invited for the following appointments in the County Planning Department:—

(a) ONE PLANNING ASSISTANT, Grade V, A.P.T., of the National Scale of Salaries (£460-£510 per annum).

(b) ONE PLANNING ASSISTANT, Grade II, Miscellaneous of the National Scale of Salaries (£315-£360 per annum).

In each case there is, in addition to salary, a cost-of-living bonus, at present £60 2s. 7d. per annum.

Applicants for (a) should be suitably qualified for the post; for (b) previous experience in a planning office is required. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination by the Council's Medical Officer.

Applications, stating age, qualifications, present and previous appointments, with copies of two recent testimonials, should be delivered to the County Planning Officer, 10, Church Street, Durham, by noon on Saturday, 30th August, 1947.

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

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## CITY OF ST. ALBANS.

## CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

**CHIEF ARCHITECTURAL ASSISTANT.**  
Applications are invited for the permanent post of Chief Architectural Assistant in the above Department, at a salary in accordance with Grade V of the National Joint Council's Scheme of Conditions of Service (£460 per annum, rising by two annual increments of £15 and one of £20, to £510 per annum), plus current cost-of-living bonus, £59 16s. per annum. A car allowance of £55 per annum will be paid in addition.

Applicants must be members of the Royal Institute of British Architects, and must have had experience in the preparation of plans, working drawings, specifications, and layouts for modern municipal housing schemes, and other Municipal buildings.

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

Applications, stating the applicant's age, qualifications, and Municipal experience, accompanied by not more than three copies of recent testimonials (non-returnable), must reach the undersigned, in envelopes endorsed "Chief Architectural Assistant," not later than the 15th September, 1947.

S. H. E. CRANE,  
Town Clerk.

88, St. Peter's Street, St. Albans.

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ESSEX EDUCATION COMMITTEE.  
SOUTH-WEST ESSEX TECHNICAL COLLEGE  
AND SCHOOL OF ART, FOREST ROAD,  
WALTHAMSTOW.

## DEPARTMENT OF ARCHITECTURE AND BUILDING.

**APPOINTMENT OF EVENING LECTURERS.**  
A Panel of LECTURERS and INSTRUCTORS for part-time day and evening classes, in the subjects indicated below, to be held in the Session commencing September, 1947, is now being prepared. Suitably qualified persons desiring to be registered for consideration for any vacancies which may arise should apply to the Acting Clerk of the Governors, at the College, for a form of application.

Draughtsmanship, Building Science, Architectural Design and Drawing, History of Architecture, Building Construction, Building Geometry, Building Mathematics, Specification Writing, Quantity Surveying and estimating, Builders' Book-keeping and Accounts, Land Surveying and Levelling, Drainage and Sanitation, Heating and Ventilating, Theory of Structures, Strength of Materials, Structural Design and Drawing, Steelwork and Reinforced Concrete Construction, Plumbing (Theoretical and Practical), Carpentry and Joinery (Theoretical and Practical), Wood-Machining, Wood Turning, Cabinet Making.

There are immediate vacancies in Theory of Structures, Surveying and Levelling, and Building Science.

B. E. LAWRENCE,  
Chief Education Officer.

County Offices, Chelmsford. 585

## SKIPTON URBAN DISTRICT COUNCIL.

**JUNIOR TECHNICAL ASSISTANT.**  
Applications are invited for the appointment of a Temporary Junior Technical Assistant, at a salary within A.P.T. Grade I, of the National Scales (£330-£375), plus bonus, at present £59 16s.

The duties will be mainly in connection with the provision of traditional and permanent prefabricated houses, and the necessary roads and sewers, etc. It is anticipated that the duration of the appointment will not be less than two years; and it will be subject to one month's notice on either side, and to the passing of a medical examination for superannuation purposes.

Applications, giving particulars of age, qualifications and experience, and also stating the names and addresses of three persons to whom reference can be made, should be received by the undersigned, not later than first post on Friday, 5th September.

K. B. ROBINSON, B.Sc., Eng.A.M.Inst.C.E.,  
Engineer and Surveyor.

Town Hall, Skipton.  
8th August, 1947.

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ESSEX EDUCATION COMMITTEE.  
SOUTH-WEST ESSEX TECHNICAL COLLEGE  
AND SCHOOL OF ART, FOREST ROAD,  
WALTHAMSTOW.

## DEPARTMENT OF ARCHITECTURE AND BUILDING.

## LECTURER IN BUILDING MATHEMATICS AND SCIENCE.

The Governors invite applications for the full-time permanent post of LECTURER IN BUILDING MATHEMATICS AND TRADE CALCULATIONS. Ability to take classes in Building Science will be an advantage. The work includes teaching upon two evenings per week, for which two half days per week are allowed off in lieu.

The salary will be in accordance with the Barnham Scale (London allowances), which provides for increments for professional experience, approved training and graduation, where applicable. The appointment is superannuated under the Teachers' Superannuation Acts, 1925.

Applications, giving full particulars of training, qualifications, and experience, accompanied by copies of three testimonials, should be submitted immediately to the Acting Clerk to the Governors at the College.

B. E. LAWRENCE,  
Chief Education Officer.

County Offices, Chelmsford. 587

## CORPORATION OF LONDON.

## CITY SURVEYOR'S OFFICE.

**APPOINTMENT OF TECHNICAL STAFF.**  
Applications are invited for the following appointment in the City Surveyor's Office:—

**ASSISTANT ARCHITECT AND SURVEYOR.**  
Salary up to £475 p.a. (inclusive of consolidated bonus), according to age, qualification and experience.

The applicant should either have qualified or be about to qualify for Associate Membership of the Royal Institute of British Architects or Associate Membership of the Royal Institute of Chartered Surveyors (Building Sub-division).

The appointment is 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. In the event of establishment to the permanent staff temporary service will count for the purpose of superannuation. Such appointment will be subject to the provisions of Local Government Superannuation, 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., 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.

## DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.

Applications are invited for a vacancy at the Department's Building Research Station, Garston, near Watford, Herts, for a SENIOR ARCHITECT, to undertake responsibility for organizing and maintaining a centre of information relating to housing problems in the Colonies. Candidates should have professional architectural qualifications, practical experience, including some of work under Colonial conditions, and an appreciation of the manner in which scientific studies can be applied to housing problems. Candidates must also be prepared if required to make visits to the Colonies.

The appointment will be for a period of three years, and will carry a salary (for a man) in the range £1,001-£1,192 per annum, inclusive of consolidation allowance.

For a woman lower rates would apply.  
Write, quoting J.421/47A, to Ministry of Labour and National Service, Technical and Scientific Register, Room 171, York House, Kingsway, London W.C.2, for application form, which must be returned completed by 1st November, 1947.

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BOROUGH OF CHELMSFORD.  
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following permanent appointments within the scale stated, plus cost-of-living bonus, at present £59 16s.

(a) QUANTITY SURVEYOR, Grade V. Salary, £460-£510.

(b) ARCHITECTURAL ASSISTANT, Grade IV. (Special maximum £480), £420-£480.

(c) ARCHITECTURAL ASSISTANT, Grade III. Salary, £390-£435.

Applicants must have the recognized qualifications and experience for the various appointments, which are subject to the provisions and conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, and will be terminable by one month's notice on either side.

Applications, stating age, qualifications, present and previous appointments, and general experience, together with copies of three recent testimonials, should be forwarded to reach the undersigned by not later than Wednesday, 27th August, 1947. Canvassing in any form will disqualify.

VINCENT J. WILLIS, M.I.Mun.E.,  
Borough Engineer and Surveyor.  
Municipal Offices, Duke Street, Chelmsford.  
12th August, 1947.

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LONDON COUNTY COUNCIL.  
APPOINTMENTS AS DISTRICT SURVEYOR.  
LONDON BUILDING ACTS. (AMENDMENT)  
ACT, 1939.

Applications are invited from persons qualified under the above-mentioned Act to hold the office of District Surveyor for permanent appointment as District Surveyor, Grade III, for service in the Administrative County of London. Salary, £1,000 a year, rising by annual increments of £50 to £1,200 a year. The persons appointed would be subject to the Council's Superannuation and Provident Fund Scheme, and to the standing orders, regulations, and rules in force from time to time.

Apply to the Architect, County Hall, Westminster Bridge, London, S.E.1, for form of application (returnable by 30th August, 1947) or for further information. Canvassing disqualifies.

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## NEW ZEALAND GOVERNMENT.

## STATE HYDRO ELECTRIC DEPARTMENT.

Applications are invited for the following appointments:—

(i) ELECTRICAL DRAUGHTSMEN.

(ii) ENGINEERING AND ARCHITECTURAL DRAUGHTSMEN.

The appointee will be required to remain in the service of the Government for at least three years.

In view of the housing situation preference will be given to single applicants.

Salary on appointment will be between £435-£460 (N.Z. currency) per annum, but this would be increased to applicants with special qualifications or experience, and opportunities exist for advancement. Allowance will be made for fares and expenses.

Further details available from the High Commissioner for New Zealand, 415, Strand, London, W.C.2, with whom applications will close on 12th September, 1947.

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HUNTINGDONSHIRE COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.  
APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE V).

Applications are invited for the above-named appointment, salary in accordance with Grade V, £460-£515-£250-£510 per annum, plus cost-of-living bonus, at present £59 16s.

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

The appointment is terminable by one month's notice on either side.

Applications, stating age, qualifications, experience and date on which duties could be commenced if appointed, together with copies of testimonials, should be sent to Mr. T. H. Longstaff, M.Inst.C.E., F.R.I.B.A., County Architect, Walden House, Huntingdon, by not later than Monday, 8th September, 1947.

J. B. KELLY,  
Clerk of the County Council.

County Buildings, Huntingdon.

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# COMMISSIONERS OF NORTHERN LIGHTHOUSES.

Applications are invited for the following established posts in the Service of the Commissioners of Northern Lighthouses:—

(1) A CIVIL ENGINEER. Salary scale £735, rising by annual increments of £25 to a maximum of £980 per annum.

(2) TWO JUNIOR CIVIL ENGINEERS. Salary scale £485 (linked to entry at age 26 with the addition of £25 for each year above that age, subject to an upper limit of £585, and subtraction of £25 for each year below age 26), rising by annual increments of £25 to £735.

(3) A DRAUGHTSMAN. Salary scale £485, rising by annual increments of £20 to £585 per annum.

(4) A DRAUGHTSMAN. Salary scale £292, rising by annual increments of £20 to £485 per annum.

Candidates for the posts of Civil Engineer must be either:

(a) Corporate Members of the Institution of Civil Engineers; or

(b) Have passed examinations recognized by that Institution as granting exemption from Sections A and B of their examination for Associate Membership, provided that Corporate Membership is attained within two years of their entry to the Service of the Commissioners of Northern Lighthouses.

Superannuation conditions are similar to those in the Civil Service.

Applicants should state their age, and give particulars of their qualifications and experience. Applications should be addressed to the undersigned.

J. GLENCORSE WAKELIN, Secretary.

Northern Lighthouse Board, 24, George Street, Edinburgh, 2. 624

## METROPOLITAN BOROUGH OF PADDINGTON.

### HOUSING DEPARTMENT.

APPOINTMENTS OF CLERICAL STAFF. Applications are invited for the following appointments on the permanent establishment of the Council:—

(a) MALE SENIOR CLERICAL ASSISTANT (DEPUTY TO CHIEF CLERK).

Appointment graded IV-V of the A.P.T. Division of the National Joint Council's Scheme of Conditions of Service, at a commencing salary of £420, rising by annual increments to £510 per annum, plus London "weighting" (£20 per annum) and cost-of-living bonus, at present £59 16s.

Candidates should have considerable experience, preferably in the office of a municipal architect, engineer or surveyor, particularly associated with extensive housing and building works under contract and by direct labour; be accustomed to the control of staff, employees' wages and conditions of service, purchase and control of stores, tenders, contracts, and local government procedure.

(b) SECRETARY TO DIRECTOR OF HOUSING (MALE OR FEMALE).

Appointment graded in the Clerical Division of the N.J.C. scheme above-mentioned, at a commencing salary of £315 for men, rising by annual increments of £15 to £360 per annum, plus London "weighting" (£20 per annum) and cost-of-living bonus, at present £59 16s.; or at a commencing salary of £252 for women, rising by annual increments of £12 to £288 per annum, plus London "weighting" (£16 per annum) and cost-of-living bonus, at present £48 2s.

Candidates, between 21 and 35<sup>+</sup> years of age, must be competent shorthand typists, preferably with local government experience, but in any case it is desirable that the candidates should have had previous secretarial experience on a similar type of work.

(c) THREE MALE CLERKS. Appointments graded in the Clerical Division as mentioned under (b).

Candidates should have experience of builders' accounts and/or the normal work of an architect and surveyor's office.

Age not exceeding 40<sup>+</sup> years. The following appointments are in the Works (Building) Section:—

(d) MALE SENIOR CLERK.

Appointment graded in the Higher Clerical Division of the N.J.C. scheme above-mentioned, at a commencing salary of £380, rising by annual increments of £15 to £425 per annum, plus London "weighting" (£20 per annum) and cost-of-living bonus, at present £59 16s.

Candidates, not exceeding 40<sup>+</sup> years of age, should have considerable experience in the administrative and clerical side of a large building or municipal undertaking executing work by direct or contractor's labour, including the wages and working conditions affecting Building Trades Operatives and the purchase and control of stores and materials.

(e) MALE SHORTHAND TYPIST AND EMPLOYEES' RECORDS CLERK.

Appointment graded in the Clerical Division as mentioned under (b).

Candidates, not exceeding 40<sup>+</sup> years of age, must be competent shorthand typists, with experience in an office dealing with all matters affecting the wages and working conditions of Building Trades Operatives.

(f) TWO MALE CLERKS.

Appointments graded in the General Division of the N.J.C. scheme above-mentioned. Age between 21 and 40<sup>+</sup> years. Salary (according to age)—at 21 years of age—£160 per annum, rising to £300 at 30 years of age and above, by annual increments of £15, with a final increment of £10; plus London "weighting" (£20 p.a., ages 21 to 25;

£30 p.a., ages 26 to 30 and above), and cost-of-living bonus, at present £59 16s.

Preference will be given to candidates having experience in an architect and surveyor's, or builder's, office.

"In the case of candidates having recent service with H.M. Forces, the upper age limits shown above are extended by the number of years of such service."

Forms of application and conditions of appointment can be obtained from me on receipt of a stamped, addressed, foolscap envelope. Applicants should state clearly which appointment it is prepared to apply for.

Applications, accompanied by copies of three recent testimonials, must be received by me not later than 15th September, 1947.

Canvassing, either directly or indirectly, will disqualify.

W. H. BENTLEY, Town Clerk.

Town Hall, Paddington, London, W.2. 15th August, 1947. 619

## CITY OF NOTTINGHAM EDUCATION COMMITTEE.

### COLLEGE OF ART AND CRAFTS.

Principal: ALFRED H. RODWAY, A.R.C.A.

Applications are invited from Men and Women for two appointments as STUDIO INSTRUCTORS in the School of Architecture of the College, which is recognized for exemption from the R.I.B.A. Inter. and Final Examinations, and in the Department of Town and Country Planning from the Final Examination of the Town Planning Institute. Duties to commence as soon as possible after 1st September, 1947.

Candidates should hold recognized qualifications in Architecture, preferably the degree or diploma of a Recognized School. The Nottingham College of Art and Crafts is recognized by the Ministry of Education as a Central College. Subject to the conditions governing full-time teaching service, the persons appointed will be given such opportunities as may be practicable to maintain their professional practice. Salary: Burnham Scales, 1945, with additional allowances, where appropriate, for (i) training; (ii) graduation; (iii) full-time professional experience after age 21; (iv) previous recognized teaching service; and (v) service in H.M. Forces or the recognized equivalent. A qualification in Town and Country Planning will be regarded as an additional recommendation, and if held by the person(s) appointed will qualify under certain conditions for additional salary. Application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom they should be returned, with copies of two testimonials, within fourteen days of the publication of this advertisement.

F. STEPHENSON, Director of Education.

Education Office, South Parade, Nottingham. 606

## LONDON COUNTY COUNCIL.

### ARCHITECTURAL ASSISTANTS.

Applications are invited for positions of Architectural Assistants, in the Housing and Valuation Department, at consolidated salaries of up to £580 a year. 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. (1050). 741

## DERBYSHIRE COUNTY COUNCIL.

### COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the permanent staff:—

Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities as adopted by the County Council.

(a) ASSISTANT ARCHITECT, Grade VI. Salary, £535-£600.

(b) ASSISTANT ARCHITECT, Grade IV. Salary, £420-£465.

Applicants should have had experience in the design and construction of modern buildings, have a knowledge of surveying and levelling, and possess an appropriate professional qualification.

(c) ARCHITECTURAL ASSISTANT, Grade II. Salary, £360-£405.

(d) ARCHITECTURAL ASSISTANTS, Grade I. Salary, £330-£375.

(e) ARCHITECTURAL ASSISTANT, Miscellaneous Division, Grade I. Salary, £255-£300.

Applicants to have had a good general architectural experience and to be first-class draughtsmen.

QUANTITY SURVEYORS:—

(f) Grade VII. Salary, £575-£650.

(g) Grade VI. Salary, £535-£600.

(h) Grade V. Salary, £495-£570.

Applicants must possess an appropriate professional qualification, and have had experience in the preparation of estimates "taking off" quantities for all trades, measuring up, and preparing final accounts.

ASSISTANT QUANTITY SURVEYORS:—

(i) Grade IV. Salary, £420-£465.

(j) Grade III. Salary, £390-£435.

Applicants should have had experience in assisting with "taking off" and "working-up."

In addition to the annual salaries payable under

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the respective grades a cost-of-living bonus, at present £59 16s. per annum, is payable in each case. Applicants must state in their applications whether or not they are related to any member of the Council or to the head of a department under the Council.

Canvassing of Members of the Council, directly or indirectly, will be a disqualification for appointment.

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

The Council is not able to assist successful applicants in the provision of housing accommodation.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of two recent testimonials, by 10th September, 1947.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

F. HAMER CROSSLEY, Dipl. Arch., A.R.I.B.A., County Architect.

21st August, 1947. 606

## WESTMINSTER CITY COUNCIL.

### PERMANENT APPOINTMENTS.

SECOND ARCHITECTURAL ASSISTANT. Salary, A.P.T., IV, of National Scales, viz., £440-£485 per annum, plus bonus.

Must be Registered Architect, with wide experience of housing and other architectural spheres.

THIRD ARCHITECTURAL ASSISTANT. Salary, A.P.T., III, of National Scales, viz., £410-£455 per annum, plus bonus.

Must be Registered Architect, with good architectural experience.

JUNIOR ARCHITECTURAL ASSISTANTS (two appointments). Salary, A.P.T., I, of National Scales, viz., £350-£415-£395 per annum, plus bonus.

Must possess good architectural experience.

TRACER (Female). Salary, General Division of National Scales, viz., £60-£264 per annum (according to age), plus bonus.

Not exceeding 30 years of age, and possess draughtsmanship of good quality, particularly in tracing and filling plans.

In the case of each appointment the age limit is, unless otherwise stated, 45 years of age (excluding members of the Council's staff). The bonus for all members of the staff over 21 is at present: Men, £59 16s., and women, £48 2s., per annum. Superannuation scheme. Canvassing disqualifies.

Applications, marked "Housing Department, Second Architectural Assistant," etc., stating name, address, age, war service, examination qualifications, present and past appointments, experience, whether related to any member or chief officer of the Council, with copies of two recent testimonials, must be received by the 8th September, 1947.

PARKER MORRIS, Town Clerk.

Westminster City Hall, Charing Cross Road, W.C.2. 11th August, 1947. 604

## SURREY COUNTY COUNCIL.

### COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the appointment of Quantity Surveyor, Grade VIII, at a commencing salary of £625, rising by annual increments of £25 to a maximum of £700 per annum, plus London allowance of £20, and cost-of-living bonus, at present £59 16s. per annum.

Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Quantity Division). They should be capable of undertaking all stages of the work for the preparation of Bills of Quantities, including preliminary estimates; the preparation and settlement of final accounts; site measurement; and preparation of interim certificates.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than the 6th September, 1947.

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

DUDLEY AUKLAND, Clerk of the Council. 613

County Hall, Kingston-on-Thames.

## GOVERNMENT OF IRAQ.

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

QUANTITY SURVEYOR required by Iraqi State Railways for three years in the first instance. Salary I.D.90 a month, plus cost-of-living allowance I.D.24. (Iraqi Dinar 1 equals £1.) Free passages. Provident Fund. Candidates should be experienced Quantity Surveyors and be competent to undertake all operations up to final preparation of Bills of Quantities. 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.

**COUNTY BOROUGH OF NEWPORT, MON.  
BOROUGH ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments:  
**SENIOR ASSISTANT ARCHITECTS**, for Education Work.

Candidates for the above appointments must be members of the R.I.B.A. by examination. The salary for one position will be in accordance with Grade VI (£536-£600) and for the other, Grade V (£460-£510) of the A.P. & T. Division of the National Scheme for Local Government Officers, plus the current cost-of-living bonus of £59 15s.

Both appointments will be subject to the Corporation's Conditions of Service and Superannuation Scheme, and the successful candidates will be required to pass a medical examination.

The appointments are temporary, but it is possible that permanent positions may develop. Applicants, accompanied by three recent testimonials, must reach me not later than Monday, the 1st September, 1947.

In accordance with the Town Council's resolution, the successful candidates will be entitled to the tenancy of a temporary bungalow in the Borough for the duration of service with the Newport Corporation.

**JOHNSON BLACKETT, F.R.I.B.A.,**  
Borough Architect.

Town Hall, Newport, Mon.  
14th August, 1947. 628

**CITY OF NOTTINGHAM.****CITY ENGINEER'S DEPARTMENT.**

Applications are invited for the posts of **ARCHITECTURAL ASSISTANTS**, as follows:—  
(1) Salary according to National Scale, A.P.T. V, £460, rising by annual increments to £510. Candidates must have passed examinations for A.R.I.B.A. and have a thorough knowledge of school work.

(2) Salary according to National Scale, A.P.T. IV, £420, rising by annual increments to £465. Candidates must have passed the examinations for A.R.I.B.A., and have a good general experience in Architectural work.

The commencing salary of each appointment will be in accordance with the experience of the candidate selected, plus cost-of-living bonus, at present £59 15s. per annum.

Applications, stating the appointment applied for, should be sent by letter to Mr. R. M. Finch, Q.E.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, not later than Monday, 1st September, 1947.

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

**J. E. RICHARDS,**

Town Clerk. 618

**URBAN DISTRICT OF HARROW.  
APPOINTMENT OF ARCHITECTURAL  
ASSISTANT.**

Applications are invited for the permanent appointment of an Architectural Assistant, in the Department of the Engineer and Surveyor, at a salary in accordance with A.P.T. Grade IV (£440-£485 per annum, plus cost-of-living bonus) of the National Scheme of Conditions of Service.

Applicants should have had good experience in the preparation of schemes for houses and flats, and should preferably have had experience in the architectural work of a local authority.

Preference will be given to candidates holding appropriate and recognized qualifications.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to termination by one calendar month's notice on either side.

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

Applications, on forms to be obtained from the undersigned, must be returned not later than Saturday, the 6th day of September, 1947.

Testimonials are not required, but candidates are requested to give the names and addresses of not more than three persons to whom reference may be made for particulars of qualifications and other matters.

It should be noted that the Council is unable to offer any assistance in obtaining housing accommodation for the successful candidate.

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**ARCHITECTURAL ASSISTANT** required immediately in London office; must be good draughtsman of intermediate standard; some experience of industrial buildings an advantage. Box 555.

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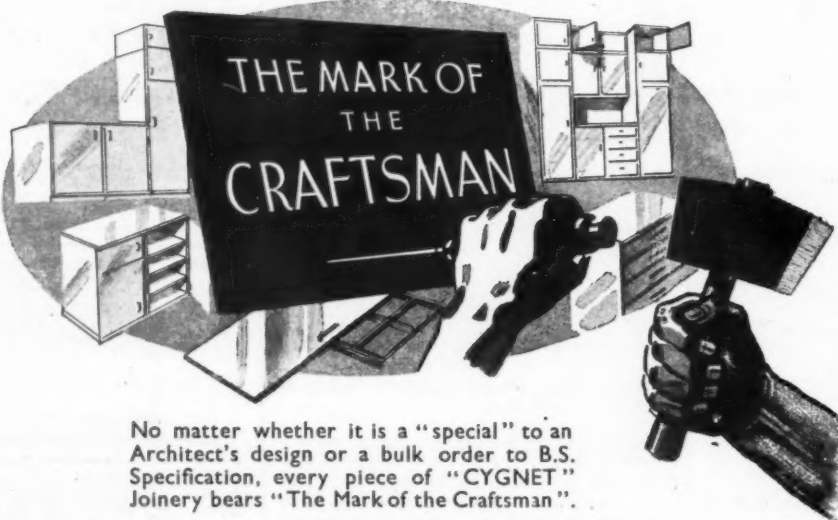
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**THE HALLMARK ON STEEL SCAFFOLDING**

**MILLS**

**ALL OVER THE WORLD**

The advertisement features a stylized map of the world as a background. Overlaid on the map is a detailed illustration of a steel scaffold joint, showing a bolt, nut, and various connecting plates. A diagonal banner across the lower half of the image reads 'THE HALLMARK ON STEEL SCAFFOLDING'. Another banner, positioned below the joint, reads 'ALL OVER THE WORLD'. The company name 'MILLS SCAFFOLD CO LTD' and 'LONDON & BRANCHES' is displayed in a dark box at the top left. The word 'MILLS' is also inscribed on one of the scaffold components.

MILLS SCAFFOLD CO. LTD., Head Office: TRUSSLEY WORKS, HAMMERSMITH GROVE, LONDON, W. 6. Tel.: RIVerside 5026/9



