

*—use them for
your projects*

MANIFEST are the advantages of aluminium and its alloys — it is ductile, resistant to corrosion, free from rust, has excellent strength/weight ratio, is fine in appearance — and to these can be added its ability to be welded by both fusion and resistance processes.

There have been misconceptions about welding aluminium alloys — misconceptions based upon established practice in welding. But, now, research has found a way of meeting the problems of welding

aluminium, of devising and providing oxide destroying fluxes, of temperature control, of operating methods departing from conventional practice but which on aluminium alloys give strong, perfect welds.

If, then, your product is one which necessitates welding, but would also gain from lightness, strength, ductility, freedom from rust, and good appearance, then aluminium or aluminium alloys are indicated. In The Aluminium Development Association's Information Bulletins Nos. 5 and 6 — free on application — the subject of Aluminium Welding by the various processes is clearly and exhaustively described.



THE ALUMINIUM DEVELOPMENT ASSOCIATION

SIXTY SEVEN, BROOK STREET LONDON W.1



The 63" all-metal Sink Unit

(Double Draining Board)

The sink illustrated is one of a complete range of kitchen units made by Charlesworth. Of all-metal construction they are beautifully finished in cream and green enamel, sink tops are of stainless steel, vitreous enamel or aluminium, and such features as concealed hinges and quietly closing doors are characteristic of the careful planning. Send for list illustrating the complete range.

OTHER CHARLESWORTH UNITS INCLUDE:

Floor Cupboard Unit.	Larder Cabinet.
Floor Drawer Unit.	Broom Cabinet.
Floor Corner Shelf.	Drying Cabinet.
Soiled Linen Bin.	Hanging Cupboard.
	Hanging Corner Shelf.

Charlesworth

QUALITY KITCHENS

SALES OFFICE:

196A, WESTGATE ST., GLOUCESTER, ENGLAND.



The 42" Sink (Single Draining Board)

Cogent



A GOOD LATHER

THE lavish lather of normal times is now no more than a memory. But the need for economy in soap should help us to appreciate its value in our daily life. Two thousand years ago the Roman writer, Pliny the Elder, ascribed the beautiful hair of the women of Gaul to their practice of washing their heads with a compound of goat's fat and beechwood ash. Now nearly half a million tons of soap are made in Great Britain every year; yet as soap is still made of fats and alkali it remains substantially the same thing as the crude cleansing compound of old Gaul. With this difference — the manufacture of soap is today an exact science, the precision of the laboratory

ensuring that the highest standards of quality are maintained no matter how great the quantity of production. The fats are accurately graded by chemical analysis. The alkali, manufactured on a huge scale, is of the utmost purity. The soap-making process itself is carefully controlled by experts. You could not do without soap. Neither could Industry. Soap is of vital importance to the textile industry, for example, in rubber processing, and to agriculture. It is the function of the chemist to determine the most effective use and type of soap for industrial purposes, as well as to help the soap manufacturer constantly to produce new and better soaps for the home.



NEW WORLD *Gas Appliances for* HOT WATER

In modern housing plans the importance is realised of an ample supply of hot water as a labour-saving factor. Household work is greatly lightened when sufficient hot water is available at all necessary points. Without it, the work of the house cannot be carried out effectively. Radiation Ltd. manufacture a wide range of appliances for providing this essential service at a reasonable cost. Their gas-fired insulated storage heaters and their coke-fired boilers give a "full-bore" supply of hot water at all required points in the house. New World Single and Multipoint Gas Water Heaters, with or without storage, designed for connection either to the cold water cistern or direct to the main supply are now becoming available.

Full information will be furnished on request.

Radiation Ltd

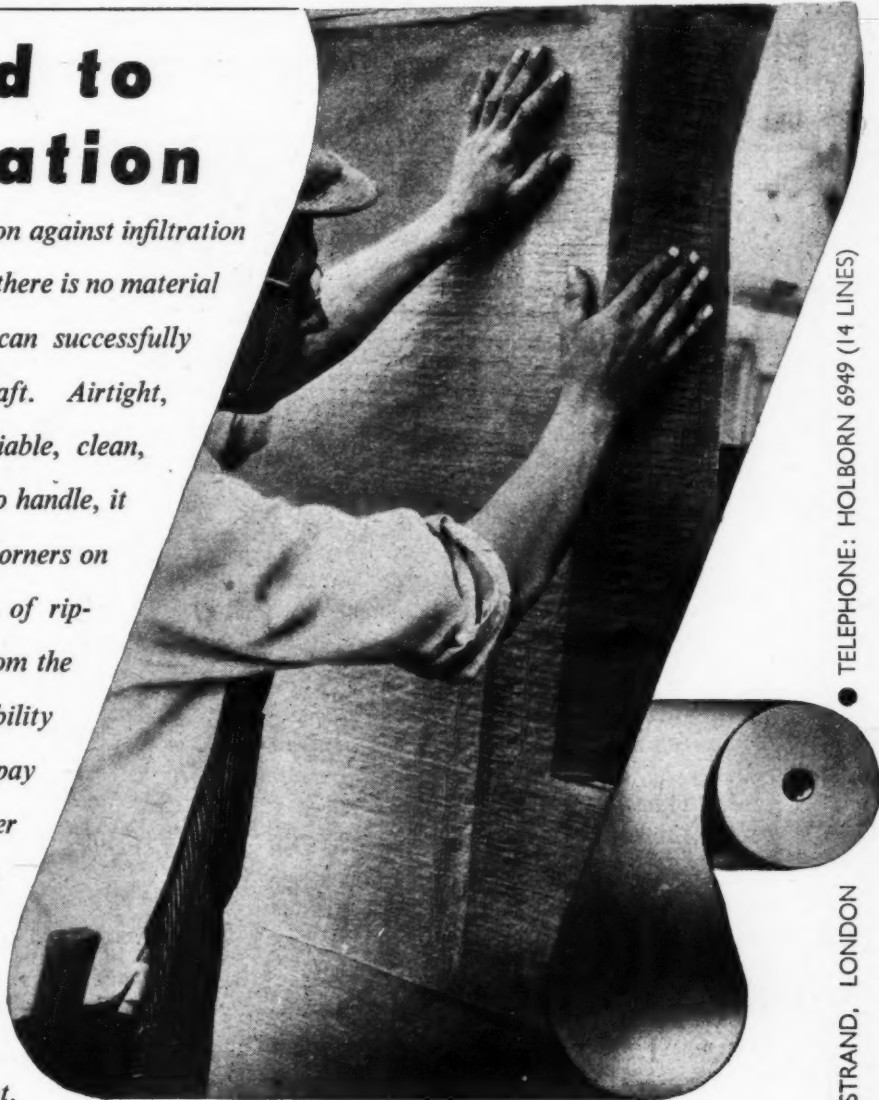
COMPRISING

ARDEN HILL & CO. LTD. ★ NAUTILUS FIRE CO. LTD.
DAVIS GAS STOVE CO. LTD. ★ RICHMONDS GAS STOVE CO. LTD.
EAGLE RANGE & GRATE CO. LTD. ★ WILSONS & MATHIESONS, LTD.
FLETCHER, RUSSELL & CO. LTD. ★ JOHN WRIGHT & CO. LTD.

Radiation House, Aston, Birmingham 6; and 7 Stratford Place, London, W.1

An end to Infiltration

For absolute protection against infiltration of wind and moisture there is no material on the market that can successfully compete with Sisalkraft. Airtight, waterproof, light, pliable, clean, odourless, and easy to handle, it can be pulled round corners on the roll without risk of ripping and tearing. From the point of view of durability alone Sisalkraft will pay for itself over and over again. Use Sisalkraft for sarking, for lining walls, and under floors and be sure of a 100 per cent.



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

SISALKRAFT
TRADE MARK

Sole Distributors for British Sisalkraft Ltd.

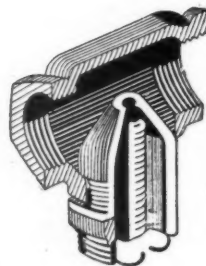
J. H. SANKEY & SON LTD

ALDWYCH HOUSE, ALDWYCH, LONDON.

● TELEPHONE: HOLBORN 6949 (14 LINES)

● TELEGRAMS: BRICKWORK, ESTRAND, LONDON

● W.C.2



NOW is the time to prevent water pipes bursting in winter by fitting or specifying Zeross Anti-Burst Valves.

Zeross Anti-Burst Valves, by discharging the volume of water equivalent to the displacement of the expanding ice forming in an installation, relieve the increased pressure, which normally causes pipes to burst, and reseal automatically before the thaw takes place.

Zeross Valves, approved by many Water Authorities and specified by Architects and Sanitary Engineers throughout the British Isles, have proved their efficiency and reliability and may be recommended with complete confidence.

The Zeross Technical Department places its services at your disposal and will gladly prepare plans and working drawings or give advice on the protection of small or large water installations against frost damage.

Zeross Anti-Burst Valves, correctly installed, give a hundred per cent. efficiency and cost less than burst pipes.

ZEROSS — A certain and automatic safeguard against burst pipes due to frost.

Cannot corrode. No essential parts in contact with water.

Supplied with essential chambered tees and made in a range of types and sizes to suit all domestic and industrial water installations.

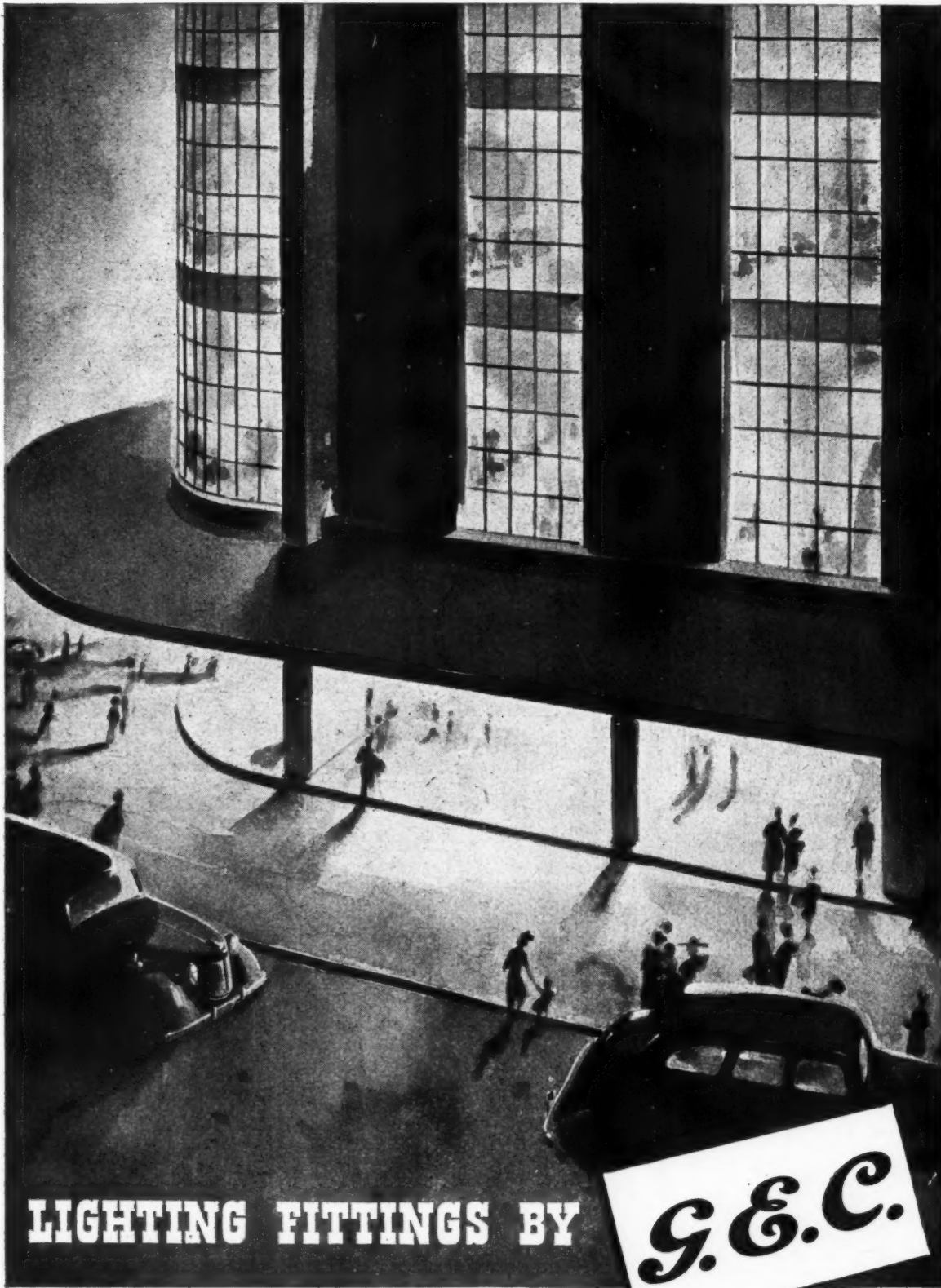
Can be fitted into iron, lead or copper systems with equal ease and efficiency.

Cost less than burst pipes.



For details write:

S. GRAHAME ROSS LTD., BATH RD., SLOUGH, BUCKS.



LIGHTING FITTINGS BY

G.E.C.

Advt. of The General Electric Co. Ltd. Magnet House, Kingsway, London, W.C.2.

★ *Regular & adequate deliveries
of BUILT-IN REFRIGERATORS
can be made
from JANUARY 1947
for Housing Schemes*

Electrolux

in the new

PERMANENT HOUSES

You've seen a lot in your technical press about Temporary Houses and their Electrolux *Silent* Refrigerators. So here—for a change—is something about Electrolux in two prizewinning Permanent Houses from a National Competition organised by the Housebuilding Industries' Standing Committee.

These model houses were recently shown to the public at Cranford Park Estate, Hayes, Middx. (built by Taylor Woodrow Construction Ltd.; designed by Messrs. T. P. Bennett & Son, F.R.I.B.A.); and also at Eastcote, Middx. (built by George Wimpey & Co., Ltd.; designed by Eric Collins, A.R.I.B.A.).

The illustration shows a corner of the kitchen at Cranford Park with the Regulo Cooker (made by Radiation Ltd.)—and the Electrolux Refrigerator, built into the kitchen furniture at convenient shoulder height. Under the Electrolux Refrigerator is ample storage space for non-perishable food. Like all 'built in' Electrolux Refrigerators (irrespective of whether they are operated by Gas or Electricity) it has no machinery, no moving parts. This means dependability, freedom from vibration, low maintenance cost, and, above all, *Silent Refrigeration at all times.*

NOW IN PRODUCTION...

Electrolux

Silent

REFRIGERATION



By Appointment
Refrigerator
Makers



By Appointment
Suction Cleaner
and Refrigerator
Manufacturers

ELECTROLUX LTD. LUTON, BEDS. HEAD OFFICE: 153/5 REGENT STREET, LONDON, W.1.

Also Manufacturers of the famous Electrolux Suction Cleaner

Building the Post-war World . . .

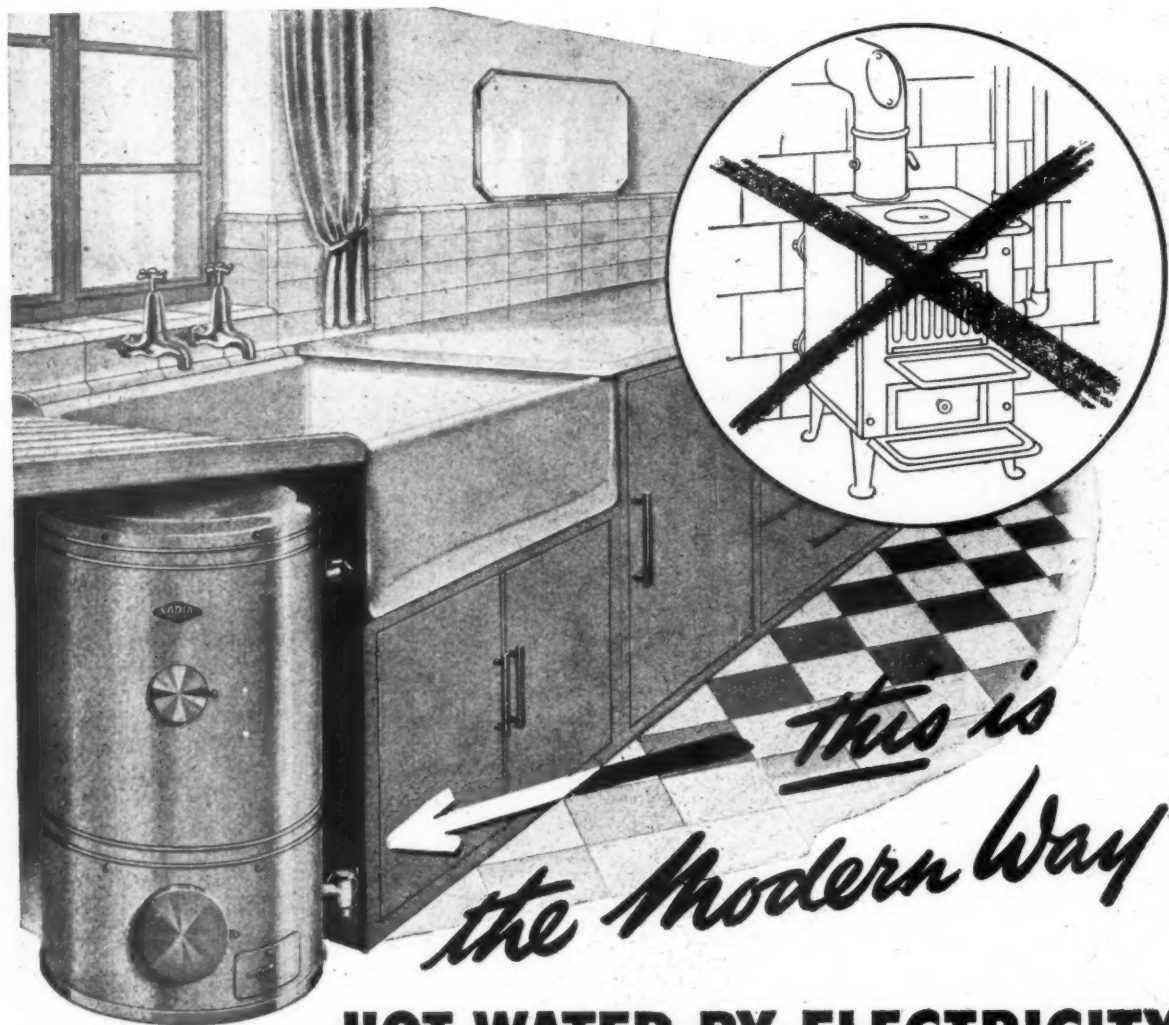


No. 6. Work in progress on a penicillin factory we have recently built in the North of England.

TAYLOR WOODROW

OTHER CONTRACTS RECENTLY COMPLETED AND IN HAND • PHOENIX (Mulberry) PREFABRICATED HARBOURS
F.I.D.O. SCHEME FOR AERODROMES • AERODROMES • UNDERGROUND STORAGE TANKS • OPENCAST COAL MINING
DEEP SEWERS (Tunnel and Open Cut) • RAILWAY SIDINGS • BRIDGE RECONSTRUCTION • POWER STATION EXTENSIONS

TAYLOR WOODROW CONSTRUCTION LTD. *Head Office and Works:* RUISLIP ROAD, SOUTHALL, MIDDLESEX
'Phone: Waxlow 2366. *'Grams:* Taywood, Southall. *Code:* Bentley's Second. *London Office:* 10 PARK STREET, W.1. *'Phone:* Grosvenor 4617



HOT WATER BY ELECTRICITY

The Sadia Type U.D.B. Water Heater provides a complete electric hot water service from one simple factory-made unit. This unit stands on the floor under the draining board in the kitchen, or in any other convenient place. Plumbing consists of one pipe from the cold water tank to the "INLET" union; another from the "Outlet" union to the hot water taps; and thirdly a vent or expansion pipe. Wiring consists of one 15 amp. sub-circuit direct from the fuse or distribution board. The skilful design of this simple, factory-built unit has reduced on-site labour to a minimum. Everyone interested in modern building should know more about this new 20 gallon Sadia water heater. For further details of the U.D.B., write to:—

AIDAS ELECTRIC LIMITED, Sadia Works,
Rowdell Road, Northolt, Middlesex.
Manufacturers of Sadia Electric Water Heaters.

SADIA TYPE U.D.B.
AUTOMATIC ELECTRIC WATER HEATER



70% of this coal will be wasted

Already barely adequate, nearly threequarters of this coal dump will nevertheless be wasted in the production of heat which will serve no useful purpose. *The factory is uninsulated.* Every year 770 tons of fuel must be used to make good the heat loss through the roof. In other words 70 per cent. of the fuel used for maintaining working temperatures is wasted—unnecessarily ● Celotex cane-fibre insulation will put an end to this waste definitely and permanently. Installed as a lining to the roof or to the walls by means of Celotex Metal Fixing Systems, Celotex will quickly pay for itself in terms of lower capital expenditure on heating plant and lower fuel consumption. From every point of view it pays to instal Celotex. The table, based on Fuel Efficiency Bulletin No. 12, gives a general picture of the savings which result when steel framed roofs are insulated with Celotex.

Our technical department will gladly calculate data for your individual needs.

Invest in

CELOTEX

Insulation

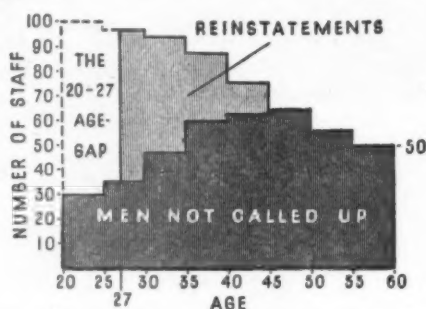
CONSTRUCTION	Uninsulated		Under-Purlin Insulation		Over-Purlin Insulation			
Corrugated Asbestos Cement	1/4"	—	1/4"	—	1/4"	1/4"	—	—
Corrugated Iron	—	22G	—	22G	—	—	22G	22G
Celotex Insulating Board	—	—	—	—	1/2"	1"	1/2"	1"
Air Space/Purlins	—	—	4"	4"	—	—	—	—
Celotex Insulating Board	—	—	1/2"	1/2"	—	—	—	—
Thermal Transmittance 'U'	1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.24
Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
Cost of Heating Plant. Cost £'s	88	94	19	20	22	14	22.5	15
Saving in Plant and Fuel due to Celotex Insulation %			78	79	75	84	75	84

A SEVEN-YEAR GAP TO FILL

Why business needs "new blood"

SEVEN years of carrying on, with ageing staffs, have left a serious gap in the executive ranks of most businesses: they are without the promising young men and women whom they would normally have recruited to train for responsible posts.

Some firms do not feel the lack — yet. The reinstatement of pre-war employees appears to leave few vacancies. But, as the diagram shows, a gap remains in their staff, in the 20-27 age-group, which neither older nor younger men can fill.



In this chart, the whole area represents the male administrative, executive and managerial staff of a typical engineering firm before the war, analysed by age-groups. The white portion is the present 20-27 gap which must be filled to restore proper balance.

Unfilled, this gap threatens the future efficiency of any business. It means, in ten years' time, a lack of responsible men between 30 and 37; in twenty years, between 40 and 47.

The young men of 20-27 who alone can fill it are now leaving the Forces. To help the most promising find posts that offer proper scope, and to secure for business and industry talents that should not be wasted in blind-alley jobs, the Government has established a free, nationwide appointments service.

A REGISTER OF ABILITIES

Fourteen Regional Appointments Offices register and classify the abilities of men and women of promise in different fields, building up a great national index from which employers' demands are met. As the 20-27's leave the Forces, all of the requisite standard who apply are interviewed, their qualifications recorded. Those who need help in choosing a career are "screened" by modern methods, to reveal special aptitudes. And selected candidates are eligible for assisted training under the Business Training Scheme — a 3-months' general course, which may be followed by up to two years' practical training in a particular firm.

Thus men are matched with the jobs they will do best. In seeking the right men to fill the 20-27 gap, employers can draw on the whole country if need be — and without wasting time in useless interviews, since *only* likely candidates are put forward for their selection.

EMPLOYERS' THANKS

Since VE-day, more than 35,000 responsible posts have been successfully filled, and hundreds of appreciative letters have been received from employers and applicants. For instance, a London firm of Industrial Management Consultants writes: "*May I take this opportunity to express my grateful thanks to you and your Department for the prompt way in which you have dealt with our requirements from time to time, and the great care which you must have exercised in selecting candidates for our consideration. It is most refreshing to find someone who is so ready to help with one's staff problems in these difficult times.*"

To learn full details of the service offered, and to get the widest choice of the most promising men as they become available, employers are invited to get in touch as soon as possible with their nearest Regional Appointments Office, in one of the following towns:—

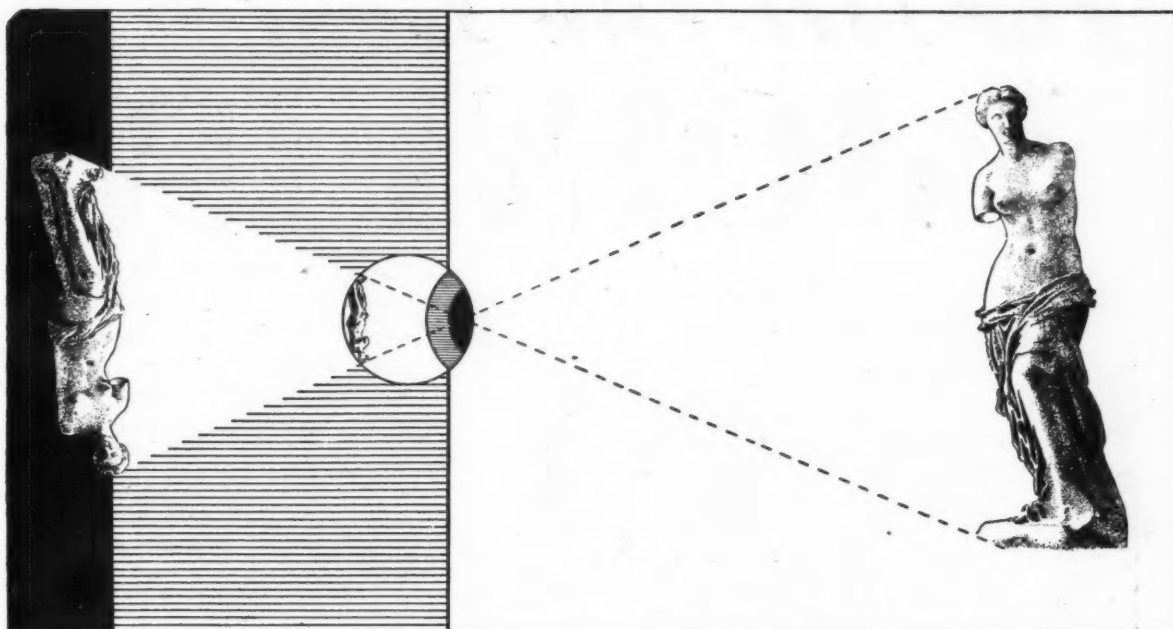
LONDON: 1-6 Tavistock Square, W.C.1
 CAMBRIDGE: 5 Salisbury Villas, Station Road
 READING: 23 Valpy Street
 WINCHESTER: Christchurch Road
 BRISTOL: Lyndale Hotel, Berkeley Square
 BIRMINGHAM: 239 Broad Street
 NOTTINGHAM: Commerce Chambers, Upper Parliament Street
 LEEDS: Greek Street Chambers, Greek Street
 MANCHESTER: Commercial Chambers, 47 Corporation Street
 LIVERPOOL: Cotton Exchange, Bixteth Street
 NEWCASTLE-ON-TYNE: 153 Barras Bridge
 EDINBURGH: 5 Rothesay Terrace
 GLASGOW: 450 Sauchiehall Street
 CARDIFF: 8 Cathedral Road

TWO TRAINING SCHEMES

Financial assistance is available, where necessary, to help selected men and women from the Forces or other war service to make up for lost time in acquiring professional or business skills. Two training schemes of direct interest to employers are in operation:

Business Training Scheme: A 3-months' course in the general structure, practice and administration of business, followed by practical training in a particular firm.

Further Education and Training Scheme: Financial assistance in completing higher professional or technical studies interrupted by war service.



THE EYE OF THE BEHOLDER

That "beauty is in the eye of the beholder" may be taken to refer to the human capacity for visual selection. The commonplace is scarcely seen and quickly forgotten; the well-designed attracts immediate attention and creates a lasting impression.

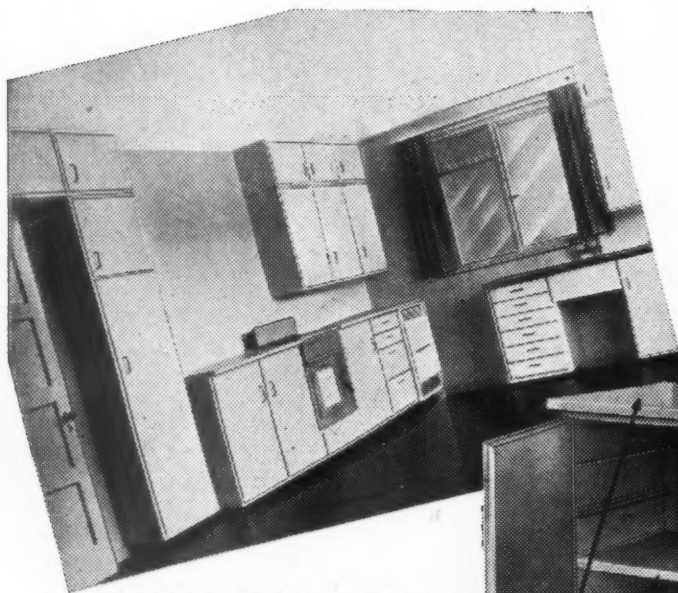
By this test the post-war heaters of Bratt Colbran Limited are assured of the widest appreciation, and by every other test the judgment of the eye will be confirmed by the practical assessment of Science. The new models, which will be ready shortly, are the successful development of a new approach to the problems of room heating by the firm with a notable record of achievement behind it.

BRATT COLBRAN LIMITED

10 MORTIMER STREET, LONDON, W.1

"PORTCULLIS" GAS FIRES · "HEAPED" COAL FIRES · "SOLECTRA" ELECTRIC RADIATORS

For All the Best **IN JOINERY**



Illustrating a model kitchen specially built in our factory for your inspection.

HALL'S Ejma standard windows provide more than twice the daylight area per cubic foot of timber than that afforded in the pre-war standards. They are designed with extremely strong laminated joints and are specially machined to avoid the bugbear of binding windows. The sizes have been co-ordinated with brickwork dimensions thus saving many man hours on site. They are weather, draught and dust resisting.

We have an ample range of standardised units and you cannot do better than SPECIFY HALL'S Ejma windows and doors.

Whatever you need in KITCHEN UNITS, WINDOWS, DOORS AND FRAMES MANUFACTURED TO THE Ejma STANDARD, REMEMBER the name is HALL the mark of QUALITY for the RIGHT STANDARD at the RIGHT PRICE.



Ejma is the Certification Trade Mark of the English Joinery Manufacturers' Association.

HALL'S OF PADDOCK WOOD offer the fully approved range of Ejma kitchen units to B.S.S. standard as approved by the Ministry of Health and the Ministry of Works. Our kitchen units will make old kitchens new and new kitchens the last word in utilisation. 16 individual units combine into 50 different arrangements and every unit is interchangeable with A.B.C. simplicity.



Here are just four of the outstanding features of Ejma Kitchen Units supplied by Hall's of PADDOCK WOOD, one of Britain's greatest and finest joinery plants:

- A. Continuous worktop fits over floor cupboards at convenient working level of 3ft. above floor.
- B. All cupboard shelves interchangeable.
- C. Specially designed dustproof drawers.
- D. Toe space is given by a 3in. recessed plinth.

ROBERT H. HALL & CO (KENT) LTD

Station Wharf 13

PADDOCK WOOD KENT

TELEPHONE

PADDOCK WOOD 105, 107, 108, 3 LINES



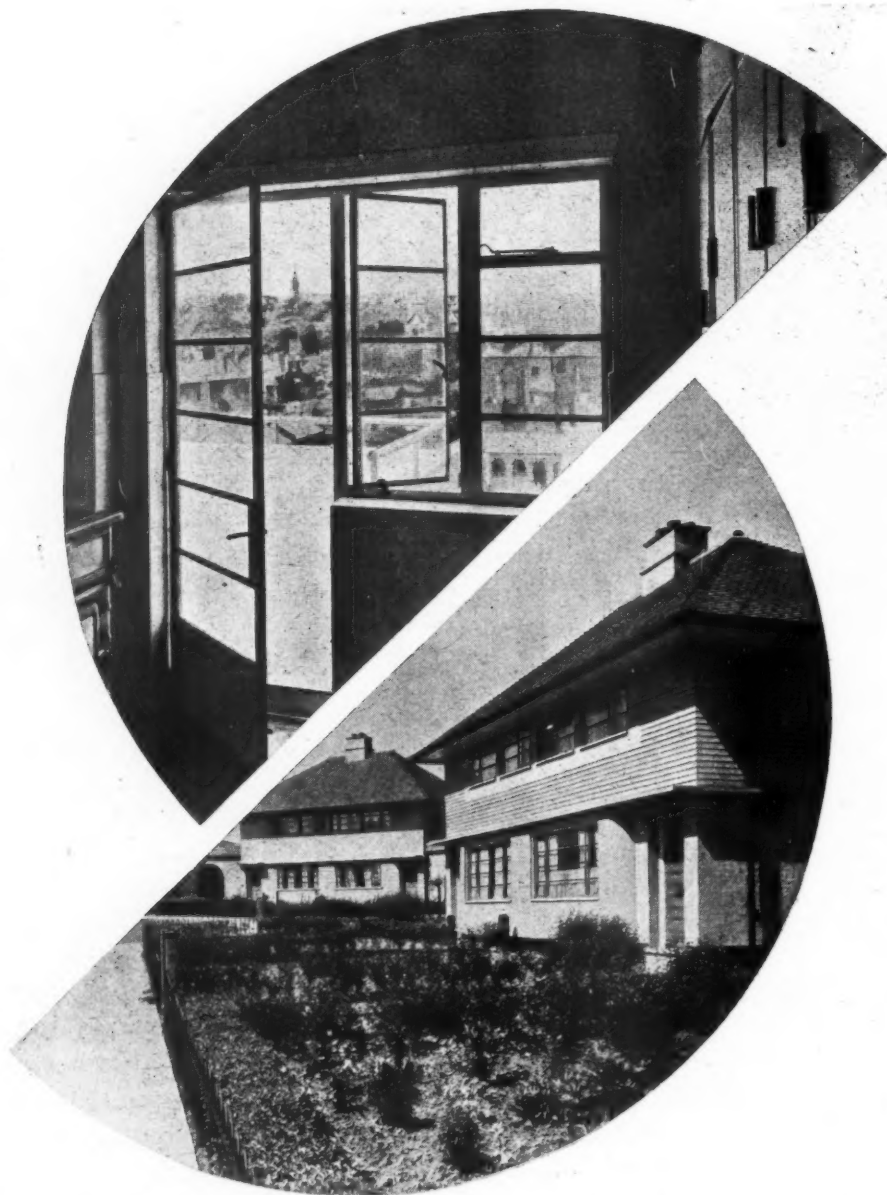
MEN of vision detect even in these uncertain times, a prospect of transforming National life—of building a new and nobler Britain in which one and all must make some practical contribution. In all classes of our people there is unmistakable evidence of a strong will to National recovery and substantial social betterment. High up on the list of priorities to serve these worthy ends is the urgent need for reconstruction.

It is unnecessary to tell Architects, Engineers and Builders who have long been in practice, the advantages of Ruberoid Products. But those who have only recently qualified or who have returned from war service will inevitably find that the specification of a Ruberoid Built-up Roof will be recognised as evidence of sound professional judgment.

RUBEROID *Roofing*

**ARCHITECTS,
ENGINEERS AND
BUILDERS** are invited
to write for Ruberoid
Publication No. 326 entitled
"Standard Specifications
for Ruberoid Roofs."

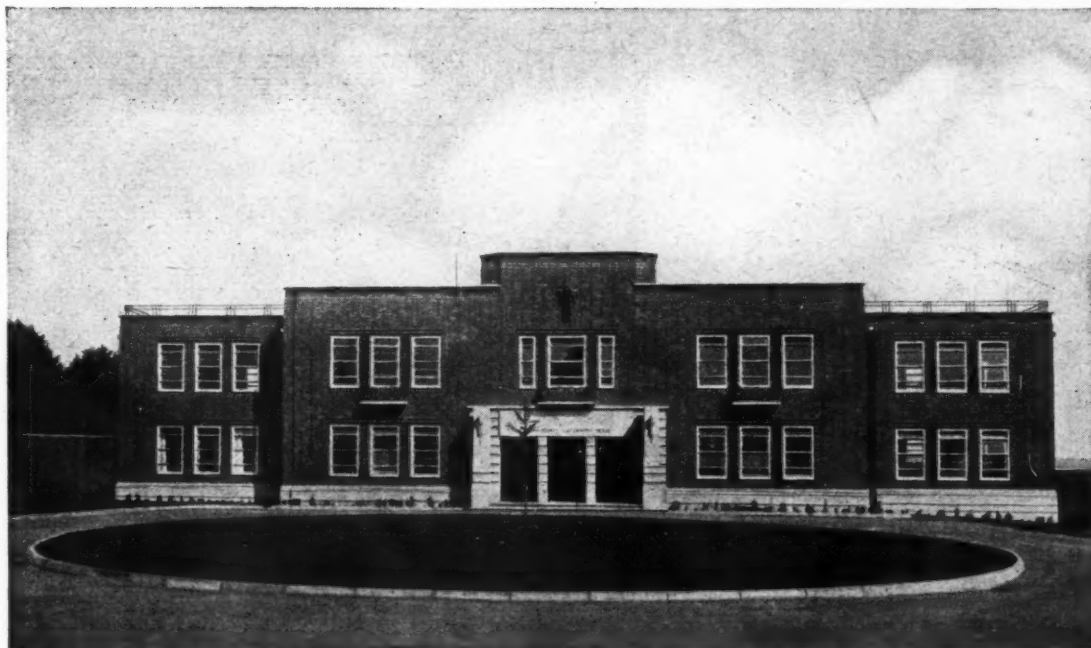
Ruberoid Contract Departments located in London, Birmingham, Manchester, Newcastle, Edinburgh and Belfast, promptly undertake work on any scale and in any part of the country. Estimates sent on receipt of particulars.



Full measure of daylight
in STANDARD METAL WINDOWS

Full information on all Metal Window queries and problems from the

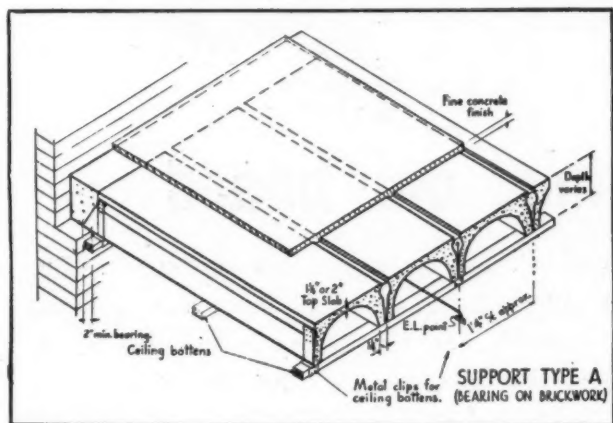
**METAL WINDOW INFORMATION BUREAU,
2, Great Peter Street, Westminster, S.W.1**



THE BARRATT MATERNITY HOME, NORTHAMPTON.

SIR JOHN BROWN, AND A. E. HENSON, F.F.R.I.B.A., ARCHITECTS.

TRUSCON PRECAST FLOORS WERE USED FOR THIS BUILDING



No matter what type of structural framework is used the Truscon Precast Floor can be adapted practically and efficiently. The light weight of the units will also effect reduced costs in the supporting framework. In the "suspended ceiling" type as illustrated, any desired ceiling finish may be used, and special ceiling clips are provided.

- SAVING OF SITE LABOUR
- SAVING OF TIMBER
- SPEED OF ERECTION
- PROVISION OF WORKING PLATFORM FOR FOLLOWING TRADES



TRUSCON FLOORS

6, COLLINGHAM GARDENS, EARLS COURT, LONDON, S.W.5

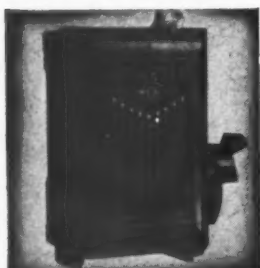
Telephone: FRObisher 8141

An advertisement of the TRUSSED CONCRETE STEEL COMPANY LIMITED
LONDON • MANCHESTER • NEWCASTLE-ON-TYNE • BIRMINGHAM • GLASGOW • CARDIFF • LEEDS 4-598



If Merlin joined our board

No doubt Merlin's magic could produce M.E.M. switchgear out of thin air. But without such assistance, even the most enlightened board of directors must contend with shortages, controls and restrictions in the face of an increasingly heavy post-war demand. All the same, good progress is being made in stepping up production and increasing quantities of M.E.M. gear are being rushed to the wholesalers.



They in turn are doing a splendid job of work in distributing all available supplies fairly and equitably. Depend on it you will get your supplies more quickly through your wholesaler.



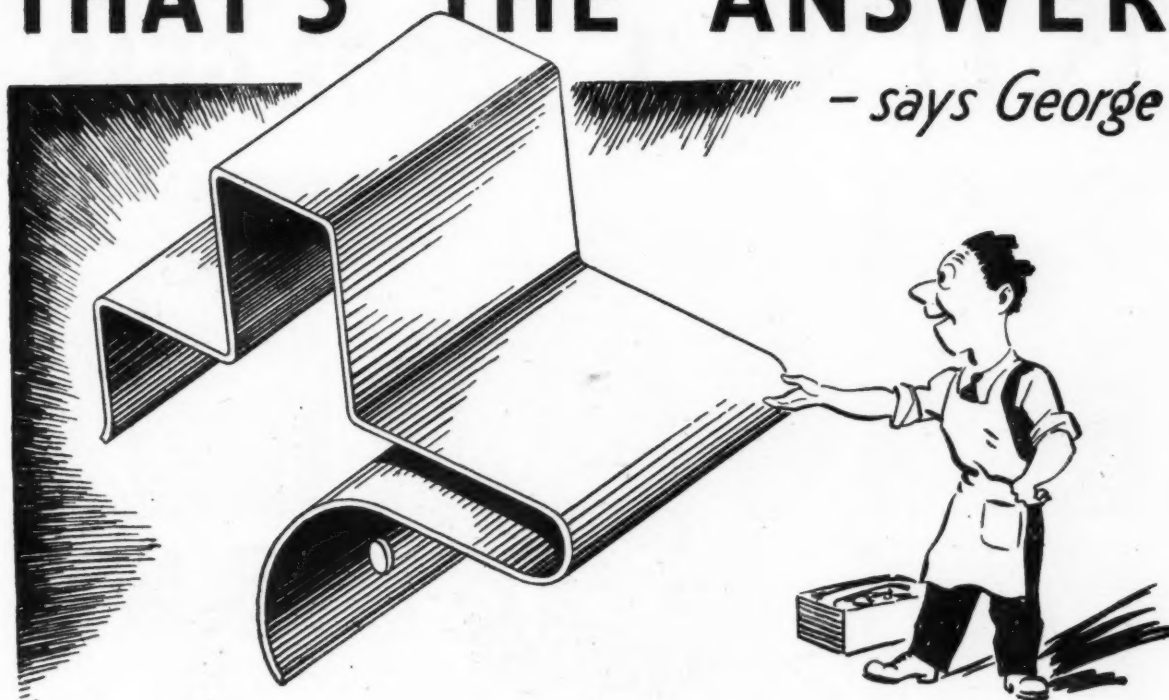
MIDLAND ELECTRIC MANUFACTURING CO. LTD., TYSELEY, BIRMINGHAM, 11
SWITCH, FUSE, AND MOTOR CONTROL GEAR, ELECTRIC FIRES
AND LOCALISED LIGHTING EQUIPMENT

London Showrooms & Stores: 21-22 Rathbone Place, W.1

Manchester Showrooms & Stores: 48-50 Chapel Street, Salford, 3

THAT'S THE ANSWER

— says George



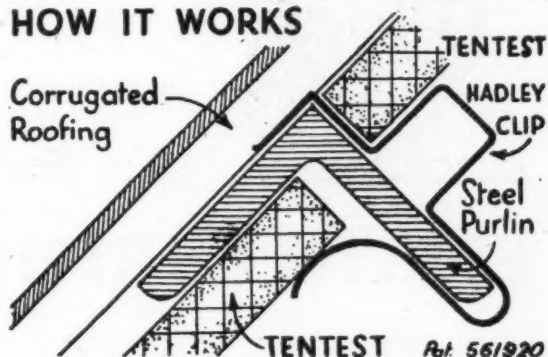
"THE ANSWER TO WHAT?" we asked. "The answer to this winter's fuel problem in a great many factories," said George, with conviction. And, believe us, George is right!"

The HADLEY CLIP is the simplest and cheapest method yet devised for fixing an insulating lining to existing buildings with steel angle purlins or wall rails.

In a normal factory a lining of half-inch TenTest fixed in this way pays for itself by the fuel it saves in 3 or 4 years. Where heating is not continuous it reduces the heating-up period. It reduces heat gain in summer as well as heat loss in winter, and by giving better working conditions can increase output.

The HADLEY CLIP is only one of our devices for fixing linings to steel framed buildings either during or after erection. Since we pioneered metal-to-metal fixings for building boards in 1936 we have met many different problems ("Don't forget to say we solved them, too!" says George) and our unrivalled experience will solve your fixing problems in the best, quickest and cheapest way.

HOW IT WORKS

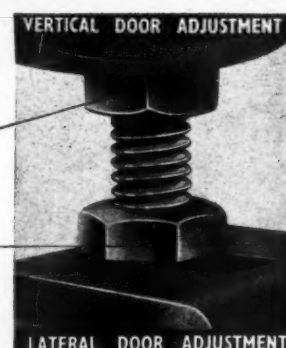
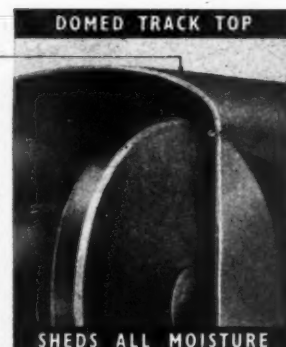
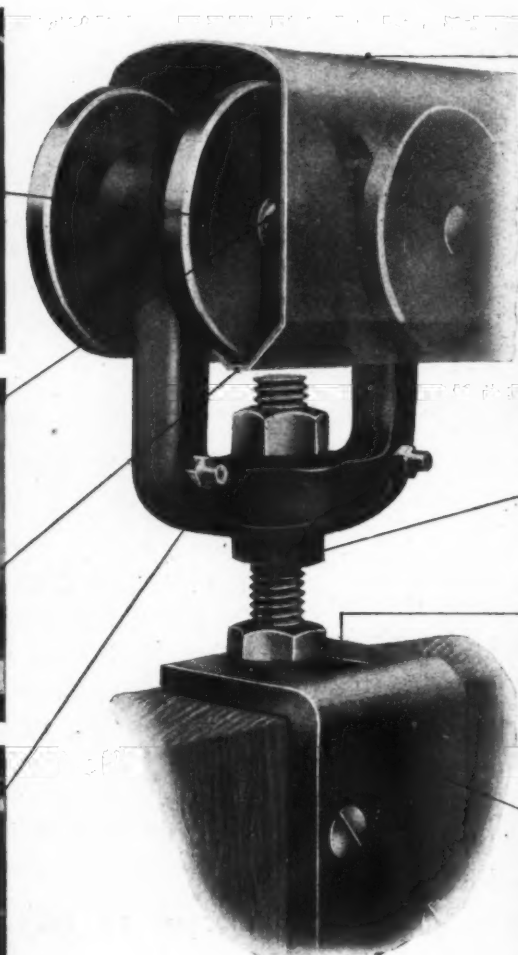


Made in Canada

If you would like to consider the full advantages of Structural Insulation in relation to the building designs you have in hand, let us put our technical representative in touch with you to make a free survey and give you facts and figures. Our Specialised Construction Department is fully equipped to undertake supplying and fixing complete to ensure satisfactory results.

TENTEST FIBRE BOARD CO. LTD., 75 CRESCENT WEST, HADLEY WOOD, BARNET, HERTS.
Telephone: BARNET 5501 (5 lines).
Telegrams: Fiboard, 'Phone, London

KING SLIDING DOOR GEAR



An Example of

ENGINEERING PERFECTION

King Door Gear stands foremost amongst all makes in possessing the above features incorporated in the one product. For many years King's have specialised in conveying; moving things smoothly and efficiently; moving huge loads of 25 tons by overhead crane to a few pounds by door gear. The highly specialised knowledge gained from this experience enables King's to produce sliding door gear as near perfection as it is possible to make it. Within King's large organisation a special department is constantly working to secure even the smallest improvement in King's products. This research results in up-to-the-minute efficiency and reliability, in short—perfect design. This fact, combined with its keen competitive price, merits King Door Gear as a first consideration. The name King creates confidence. Stockists throughout the country have standard lines ready for immediate delivery. Write for illustrated booklet and price list.

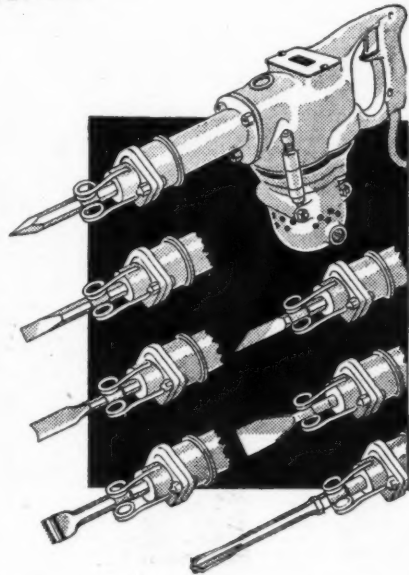
GEO. W. KING LTD. HITCHIN HERTS

PHONE:
HITCHIN 960



"DEAD SHORE THOSE FLOORS THEN..."

...all set for another crack at Britain's building programme. The call this time is reconstruction, the situation urgent. The tools, of course, are portable electric. Van Dorn Hammers will knock the bottom out of drilling, chiselling, channelling and other operations too. Van Dorn Sanders will clean up the timber, while powerful 'Ripsnorter' Saws, with ten times hand capacity, are ready for the high-speed cutting of wood, cast iron, asbestos and many other materials. These tools, and others in the Van Dorn range, have urgent work awaiting them in the building drive.



"Van Dorn"

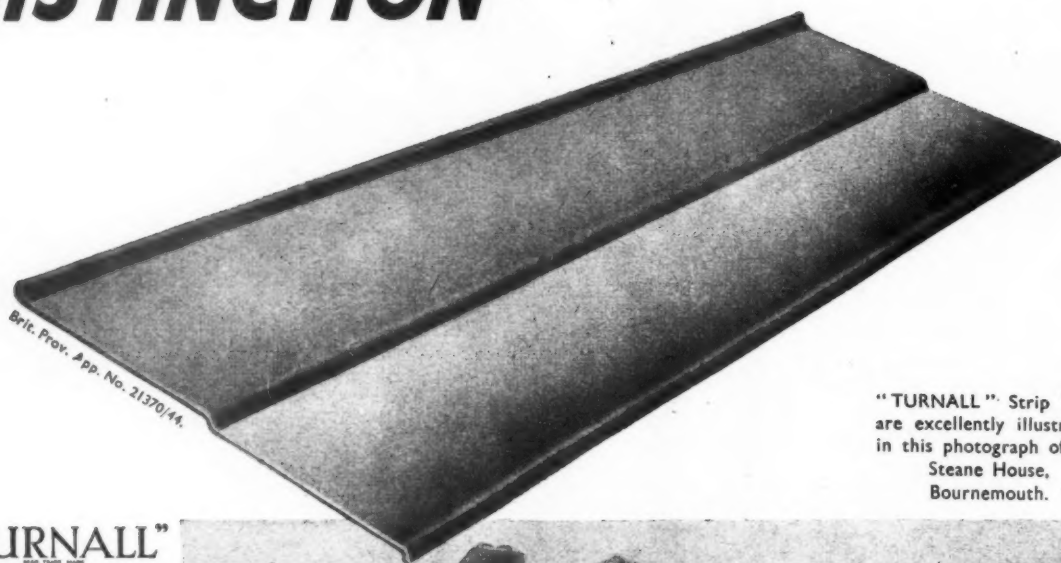
• THROUGH
VAN DORN
DISTRIBUTORS
ONLY

PORTABLE ELECTRIC TOOLS FOR THE BUILDING TRADE

VAN DORN ELECTRIC TOOLS • HARMONDSWORTH • MIDDLESEX • 'Phone: West Drayton 2681/6
LONDON • BIRMINGHAM • BRISTOL • GLASGOW • LEEDS • MANCHESTER • NOTTINGHAM

Stone's D.B.I.

ECONOMY WITH DISTINCTION



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

"TURNALL" ASBESTOS-CEMENT STRIP TILES

CONSIDER THESE FACTS:—

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

FIXED DIRECT TO
WIDELY SPACED
RAFTERS

NO BATTENS OR
BOARDING REQUIRED

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

WRITE FOR DESCRIPTIVE
LEAFLET SECTION 4/C.

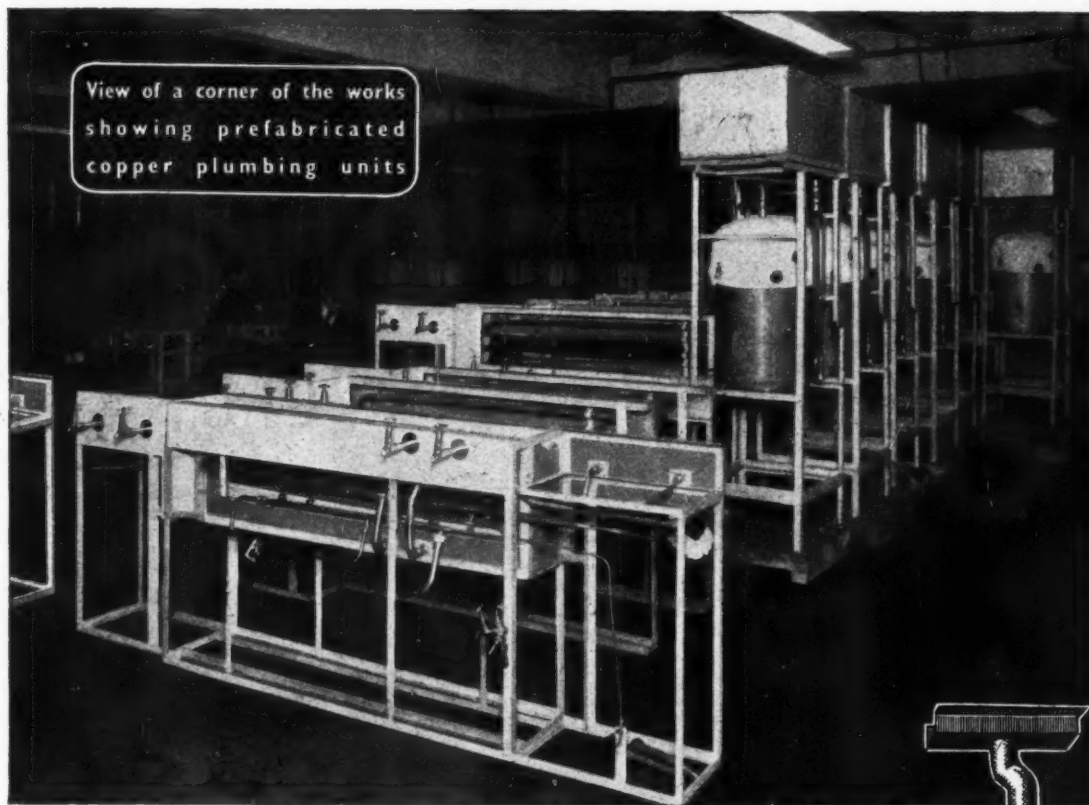


TURNERS ASBESTOS CEMENT CO. LTD.
TRAFFORD PARK

TURNER & NEWALL LTD.

MANCHESTER 17

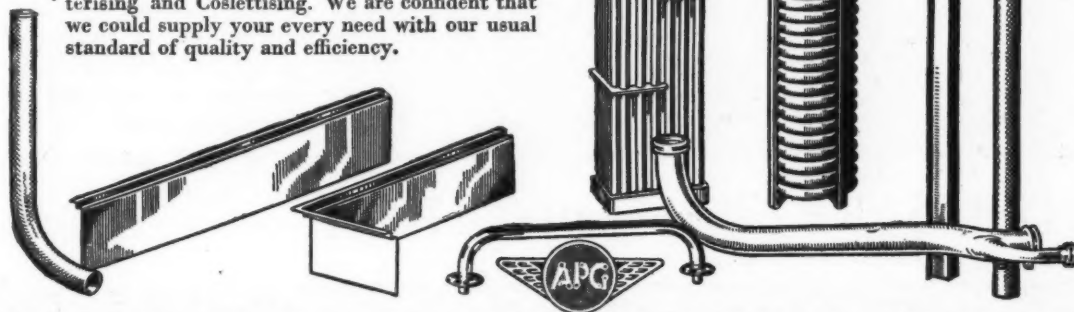
S.T.1



Do you require

Copper, Mild Steel, Stainless Steel, Aluminium or Alloys, in tube or sheet, formed, welded or manipulated?

Let your peace-time problems be our opportunity to give you the benefit of the wide experience we have gained in modern production methods. Our Coppersmith Shop and Sheet Metal Department is considered to be one of the best equipped in the country, and the craftsmen we employ, having helped to produce pipe-lines and sheet metal parts for nearly every type of British aircraft used during the war, are now able to apply their previous experience in Marine, Brewery, Distillery, and every kind of Coppersmith work to present day requirements. We also have departments fully equipped to undertake Walterising and Coslettising. We are confident that we could supply your every need with our usual standard of quality and efficiency.



AERO PIPE & GLASS CO. LTD., GENERAL ENGINEERS & COPPERSMITHS
A.P.G. HOUSE, HARLESDEN ROAD, WILLESDEN GREEN, LONDON, N.W.10

94-16



SIMPLIFYING THE COMPLICATED

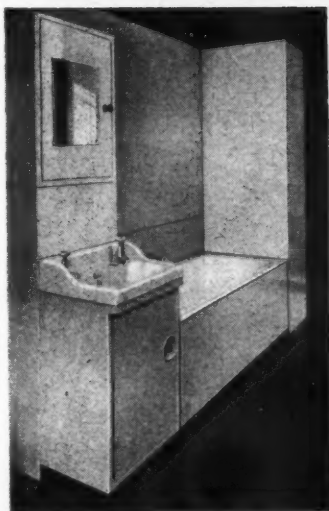
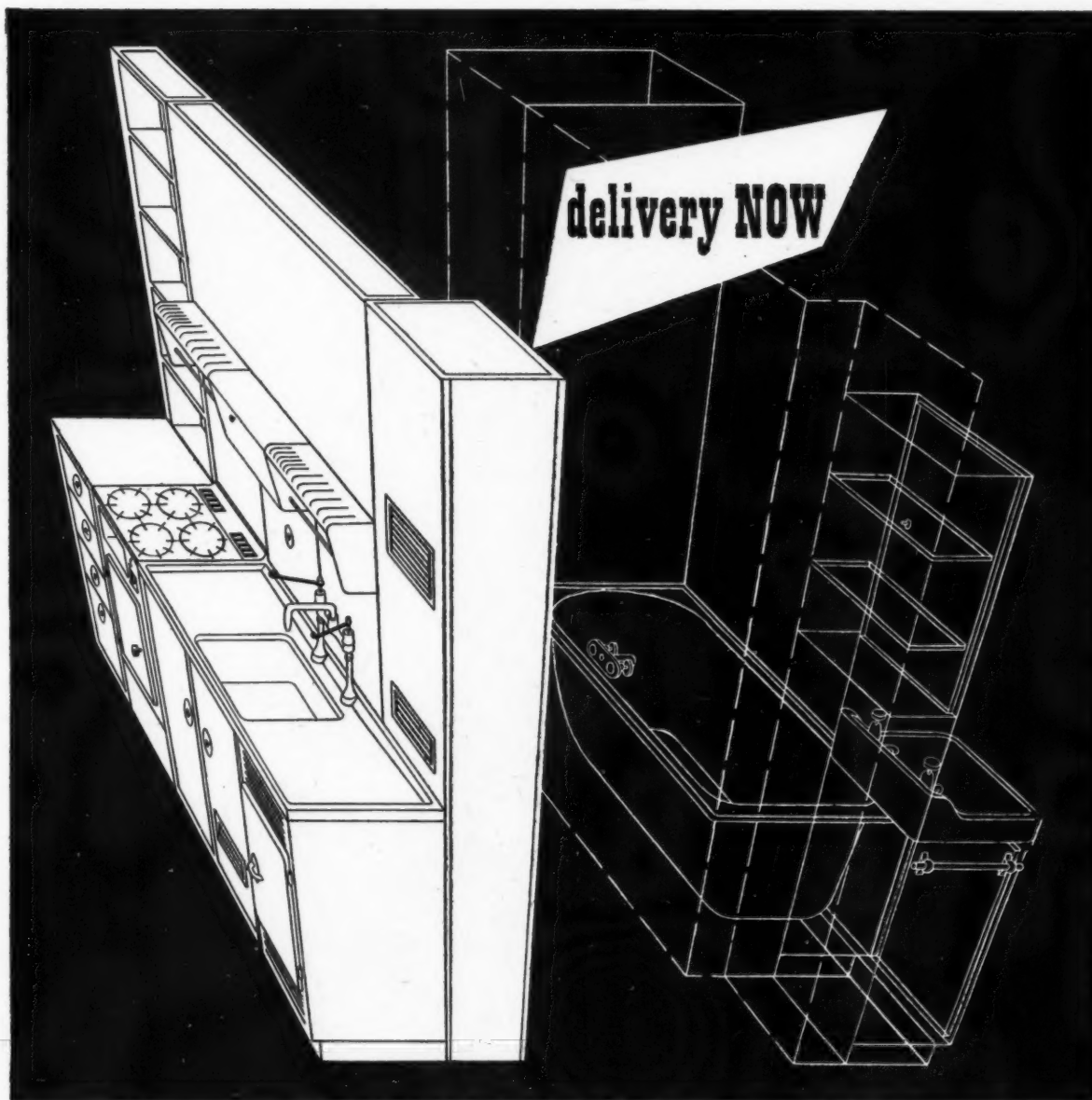
"The simple life" in the wilds is really a very complicated life, in which elementary amenities—water, light, heat—are dependent upon vast personal labours, and bad weather means misery and perhaps disaster. The truly simple life is the highly civilised life, whereby all essential services are obtainable, at will and without exertion, and weather is made for man. In the transition from cave-life to high civilisation, Brightside Conditioned Comfort is one of the big things.

BRIGHTSIDE *Conditioned.* COMFORT

HEATING · PIPING · AIR CONDITIONING

THE BRIGHTSIDE FOUNDRY & ENGINEERING COMPANY LTD

Head Office: SHEFFIELD; and BIRMINGHAM, BRISTOL, LIVERPOOL, LONDON, NEWCASTLE, PORTSMOUTH, EDINBURGH, GLASGOW, BELFAST



the ALPLA kitchen-bathroom unit

designed by Gaby Schreiber, M.S.I.A.

is now being used for blocks of flats, one and two storey houses and conversion of houses into flats.

is placed back to back for single storey work or superimposed for two storeys.

is made in aluminium alloy finished with plastic skin.
allows space for all essential equipment, gas or electric.
conceals all site-installed plumbing.

The ALPLA kitchen has been selected for the "Britain Can Make It" exhibition
Kitchen and bathroom units are also supplied separately. For details write

INTERNATIONAL PLASTICS LTD.

LIGHT METAL DIVISION

3 VERE STREET, OXFORD STREET, LONDON, W.1.



for

STRUCTURAL STEEL

CONCRETE

MACHINERY

WOODWORK

ROOFS

IRON

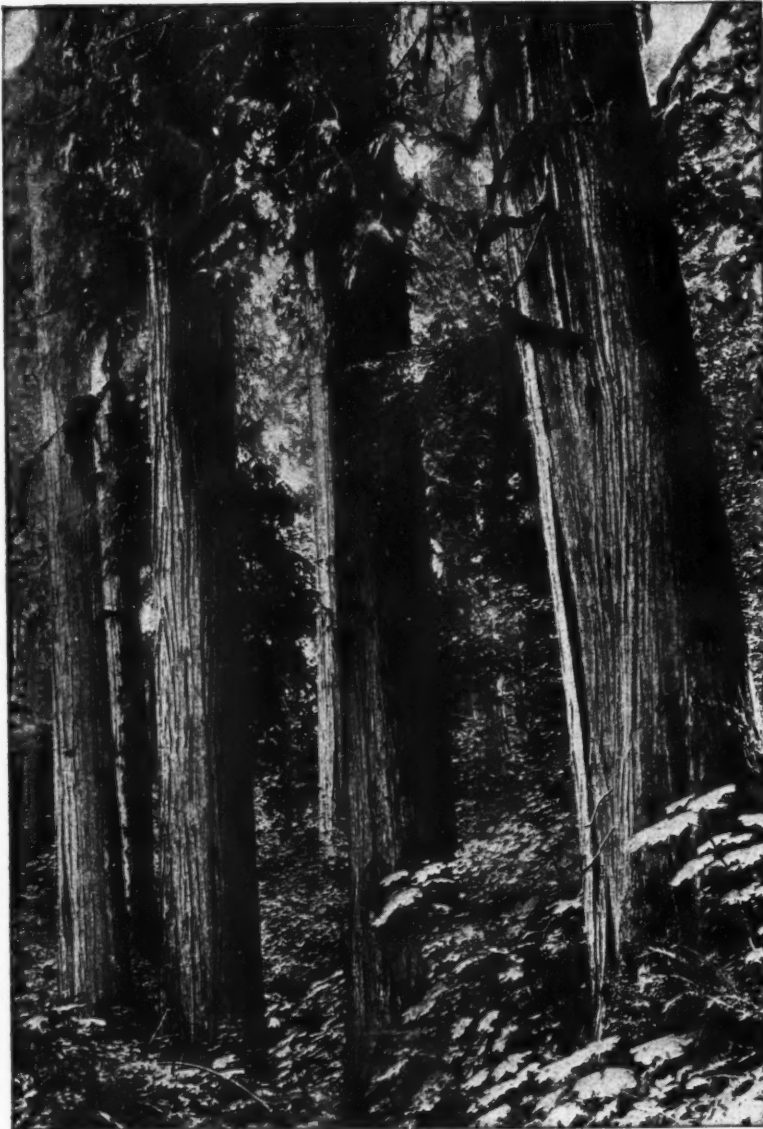
TRETOL Bituminous Coatings are the result of years of experience and research.

For use wherever Iron, Steel, Concrete and Woodwork need protection against water or chemical and atmospheric influences. Supplied in Black, Red, Brown, Green and Aluminium. Quick-drying. Ready for use. **ACID PROOF.** Applied cold by brush, spray or dipping. A protective coating of highest elasticity.

TRETOL LTD., 12-14 North End Road, London, N.W.11
Telephone : SPEedwell 4621 (5 lines)

TRETOL

BITUMINOUS COATINGS



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

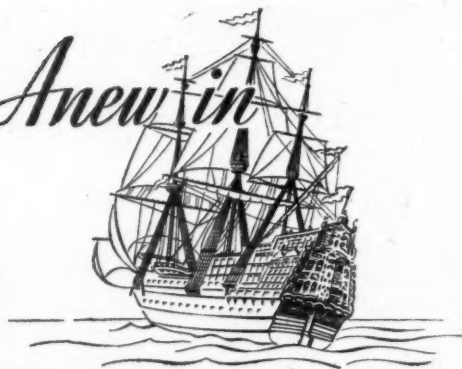
The
Midland Woodworking
Company Ltd

MELTON MOWBRAY

Craftsmen in Domestic Joinery

Craftsmanship Lives Anew in

FINE TIMBER



PHINEAS

PETT

(1570-1647)

Master Builder of the Navy, responsible for all Shipbuilding including the "Sovereign of the Seas", the largest and most highly ornamented ship of the day, (a model is preserved in the Royal Naval College, Greenwich).



First-class Dining Room: 'The Queen Mary'

Timber was used not only to fashion the hulls of our early naval vessels, but their builders also used it to decorate the exteriors and interiors of these superb examples of the craftsman's skill. The ship-builders and designers of today have the advantage of being able to call on many other allied materials and services—veneers from all over the world, water resistant plywood (flat, shaped, or metal faced)—and modern methods of kiln drying, fireproofing, etc.

WILLIAM MALLINSON & SONS LTD

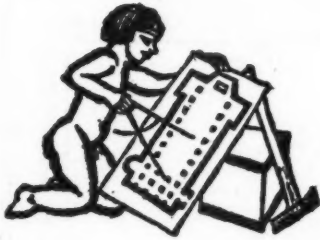
TIMBER AND VENEER MERCHANTS AND PANEL MANUFACTURERS

130-150 HACKNEY ROAD • LONDON • E 2

TELEPHONE • BISHOPSGATE 1234

TELEGRAMS • 'ALMONER' LONDON

In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order."



Subscription rates: by post in the U.K. or abroad, £1 15s. od. per annum. Single copies, 9d.; post free, 11d. Special numbers are included in subscription; single copies, 1s. 6d.; post free, 1s. 9d. Back numbers more than 12 months old (when available), double price. Volumes can be bound complete with index, in cloth cases, for 15s. each; carriage 1s. extra. Goods advertised in the JOURNAL and made of raw materials now in short supply, are not necessarily available for export.

NEWS

THURSDAY, October 17, 1946
No. 2699 VOL. 104

News	271
LCC to Buy Hurlingham ..	272
This Week's Leading Article ..	273
Astragal's Notes and Topics ..	274
Letters from Readers ..	275
First Two-Decker Town ..	276
Physical Planning Supplement: La Région Parisienne. Recent Developments in the Planning Scheme	277
Abingdon Housing Competition: Winning Designs	281
Information Centre	285
Societies and Institutions ..	287

DIARY FOR OCTOBER NOVEMBER AND DECEMBER

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.

BLACKBURN. *Regional Building in the United States.* Exhibition at the Public Library, Museum and Art Gallery. (Sponsor, Arts Council.) Until Oct. 26

BLACKPOOL. *Plans for an Arts Centre.* Exhibition at the Borough Surveyor's Department, Municipal Building. (Sponsor, Arts Council.) Until Oct. 26

EDINBURGH. *Exhibition of Standard Products for Housing.* At the Royal Scottish Museum, Chambers Street, Edinburgh. The aim of the exhibition is to make known the types of goods in production now or in the future, from whom they are available and at what price. It is also hoped that it will encourage the use of products conforming to British Standard Specifications to ensure certain basic qualities. The exhibition will be mainly for the information of local authorities, technicians and builders but will also be open to the general public. (Sponsor: Ministry of Works and the Department of Health for Scotland in consultation with the other Government Departments concerned, Mondays to Saturdays 10 a.m. to 5 p.m., Sundays 2 p.m. to 5 p.m. Admission free.) Until Oct. 31

LONDON. *Britain Can Make It.* Debate on the Britain Can Make It Exhibition at the Royal Society of Arts, John Adam Street, W.C.2. Chairman, G. O. Slade, K.C. 1.30 p.m. (Sponsor, DIA.) Oct. 17

Royal Photographic Society of Great Britain Exhibition. At the Science Museum, Exhibition Road, S.W.7. Ninety-first annual exhibition of photographs, which contains some 900 photographs from 21 countries of various kinds such as pictorial, technical, colour, miniature camera, cinematography. (Sponsor, Royal Photographic Society.) Until Oct. 26

P. J. Marshall, late General Secretary of SATO. *SATO and a Burma Plan.* At the RIBA, 66, Portland Place, W.1. (Sponsor, MARS group, supported by the Association for Planning and Regional Reconstruction, Association of Building Technicians, and Architects Students' Association.) 6.15 p.m. Oct. 25

Religious Paintings. By Eric Hemmingway. At the Church Artists' Agency, 25, Ebury Street, S.W.1. (Sponsor, CAA.) 9.30 a.m. to 6 p.m. Saturdays 9.30 a.m. to 1 p.m. OCTOBER

Swiss Planning and Building Exhibition. At the RIBA, 66, Portland Place, W.1. Organized with the co-operation of the foremost architects and associations in Switzerland.

land. Building for work, building for recreation, housing, town and country planning, schools and hospitals are among the subjects covered. Other features are the preservation of old and historic buildings and the countryside, and the re-planning of winter sports resorts, for which an extensive programme has already been started. How Switzerland makes the most of her landscape is shown in a series of photographs. Until Oct. 26

Danish Domestic Design. Exhibition at Geoffrey Museum, Kingsland Road, E.2. (Sponsor, Arts Council.) Until Oct. 27

Festival of St. Luke. 3 p.m., Service at St. Margaret's, Westminster (address by the Bishop of London). 4 p.m., Reception at Central Hall, Westminster. This annual festival of the Visual Arts, organized by the St. Luke's Festival Committee (on which the Council for the Preservation of Rural England is represented), first took place in 1945 and is held for the purpose of stimulating public interest in the relevance of the Fine Arts to everyday life. (Information from the Secretary, CPRE, 4, Hobart Place, S.W.1.) Oct. 18

Office Finance. Informal lecture by two architects and an accountant. At the RIBA, 66, Portland Place, W.1. Speakers: Percy Burnett, A. M. Chitty and Brian Boys (accountant). Chairman, E. D. J. Mathews. (Sponsor, RIBA.) 6.30 p.m. Oct. 22

Mrs. Pleydell-Bouverie. *Your New Home.* (The Competition of the House Builders' Registration Council.) At the Housing Centre, 13, Suffolk Street, S.W.1. 12.45 p.m., buffet lunch, 2s. 6d.; 1.15 p.m., talk and discussion. (Sponsor, HC.) Oct. 22

MERTHYR TYDFIL. *Royal Sanitary Institute Sessional Meeting.* At the Castle School, Cyfarthfa Park. Discussion on *Housing and its Amenities*, to be opened by G. Eric Mitchell, Borough Architect and Engineer, Merthyr Tydfil. 10.30 a.m. (Sponsor, RSI.) Oct. 26

PORTSMOUTH. *Plans for an Arts Centre.* Exhibition at the Central Public Library. (Sponsor, Arts Council.) Until Oct. 26

SALFORD. *History of the British Playhouse.* Exhibition at the Museum and Art Gallery, Peel Street. (Sponsor, Arts Council.) Until Oct. 30

SOUTHAMPTON. *What is Modern Painting?* Exhibition at Woolston Community Centre. (Sponsor, Arts Council.) Oct. 21-Nov. 4

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.

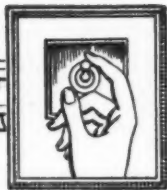
Any feature marked with more than two stars is very big building news indeed.

Part of the outer walls and several complete rooms of a **LARGE ROMAN COURTYARD HOUSE** attributed to the 2nd century A.D. have been uncovered on the Roman site in King's Head Yard, Southwark.

The work is being undertaken by a voluntary team of American, Dutch and British students working under the direction of Miss Kenyon, of the Institute of Archaeology. The building was of wattle and daub on a rough masonry base. The King's Head Inn was once the Pope's Head which may well have been the successor of a Roman tavern. The Roman road south from London Bridge probably passed below the modern inn.

To give the new stone which is being used to restore Shrewsbury's sixteenth century Market Hall and Public Library the right colour, a **SOLUTION OF COWDUNG** is being applied.

The two buildings are undergoing a structural overhaul. Both buildings are of Grinshill stone, a gray sandstone which is not very durable. Some of the blocks are now so soft that a knife will penetrate them. Owing to the small demand, the Grinshill quarries are now closed but a similar stone is being used for the renovation.



Electricity

is basic in building

Electricity, which was the *mainpower* behind the production of munitions of war, is now a prime necessity in the building and equipment of the new and better homes for peacetime Britain. Electricity is no longer a luxury to be enjoyed by a few; it is the *main source* of that comfort and cleanliness to which every householder is entitled. And, in addition to being indispensable, Electricity is able to meet—and is meeting the hundred and one demands which indispensability entails.

For information and advice about the many new uses and greatly increased adaptability of Electricity consult your Electricity Supply Undertaking or the British Electrical Development Association, 2 Savoy Hill, London, W.C.2

The Electrical Section at the Building Centre, Maddox Street, London, W.1, provides interesting illustrations of electrical application in domestic and industrial premises.



From AN ARCHITECT'S Commonplace Book

THOUGHTS OF A 19TH-CENTURY SHARAWAG: THE STERILITY OF OFFICIALDOM. [From *The Art of Building Cities* by Camillo Sitte; translated by Charles T. Stewart (Reinhold Publishing Corporation).] To expect (to achieve a good city plan through official action alone) would be just as unreasonable as to expect the building of cathedrals, the painting of great pictures, or the composition of symphonies through public action. An artfully effective city plan is truly a work of art, and not a matter of administrative routine. That is the essence of the entire problem. Even if we assume that every official has the ability, knowledge, background in travel and training, innate artistic feeling and imagination to conceive of an effective city plan, a number of officials acting together in a bureau would produce only barren, pedantic stuff of a dusty official flavour. The department executive has no time to do the work himself, burdened as he is with conferences, reports, commissions, administration and so on. The subordinate official dares not intrude his own ideas. He must abide by the official standard. His drawing board has no other inspiration, not that he isn't capable of something better, but because his work is official. Personal ambition, artistic individuality, and enthusiasm for work of one's own responsibility are factors that do not fit into public administration. In fact, they are incompatible with official discipline.

Mr. G. H. A. Hughes: If the Ministry of Health provides us with the materials, every house in the London area now up to roof-level will be FINISHED BY CHRISTMAS.

Mr. Bevan, continued Mr. G. H. A. Hughes, Director of the London Master Builders' Association, who was speaking at Chigwell, has assured us that all the materials needed have been or will be produced in time. We depend on that assurance. If it is carried out and steps are taken to ensure that there are no hold-ups, we shall do our part of the job. I have already asked our members to assist in pin-pointing the houses now in the nearly finished category, so that we can notify the Minister of the extent of our demand for supplies. It is now up to him. One point about housing should be made clear to the public. Official returns always discriminate between houses built by local authorities and houses built by private builders. Generally speaking, the local authorities do not build houses. Private builders build those houses for them under contract. This should be emphasised, for I am sure that the public does not sufficiently realise the extent of the contribution the building industry is making to the housing problem. Speaking of the black market, Mr. Hughes said: All members of the London Master Builders' Association are strongly opposed to it. If any evidence is given of a case in which unlicensed building seems to be going on the Association will immediately bring it to the attention of the Ministry of Works. I ask for the assistance of members in providing such information.

To speed up housing in London two men have now started as the EYES AND EARS OF THE PRODUCTION COMMITTEE for the Building Industry.

They are Mr. J. Nickson and Mr. T. Catto, who have been appointed by the National Joint Production Council, set up under the wages agreement of the National Joint Council of the Building Industry in January, 1946. They are to seek out the causes of delay in building progress, and will report to the London Regional Joint Production Committee, which operates under the National Production Council. Mr. Nickson was formerly a master builder in Manchester, and served with the Ministry of Works in Ireland during the war. Mr.

Catto is a well-known London building trade unionist.

Mr. James B. Austin: Scandinavian timber of unsorted quality, which is essentially the need of joinery manufacturers is going to the wrong uses owing to MALDISTRIBUTION.

Addressing members of the English Joinery Manufacturers Association, Mr. James B. Austin, the new President, said: Manufacturers have the right to receive the material with which to carry out their orders. Scandinavian timber of unsorted quality which is essentially the need of joinery manufacturers, is going to the wrong uses owing to maldistribution. This is being aggravated by the first and second hand buyers' quota systems which are causing stocks to accumulate in merchants' yards whilst the joinery

trade can not find the wood it needs. He also stressed the need to assist the small manufacturer who at the moment is being forced to buy most of his wood on the basis of under £20 lots at a surcharge of 20 per cent. He also added: The correct distribution of timber is a vital matter to the trade and the major difficulty in the ensuing year will be to ensure that adequate supplies of raw material, to enable the building programme to be fulfilled, are forthcoming.

Mr. Christopher Tunnard, Assistant Professor of City Planning at the Yale University School of the Fine Arts, Department of Architecture, New Haven, Connecticut, has been APPOINTED TO THE STATE COMMITTEE AT UNO HEADQUARTERS.



Part of the exhibition held in the Henry Jarvis Hall at the RIBA in connection with the conference on Fuel and the Future sponsored by the Ministry of Fuel and Power and held last week. The exhibition, illustrating some of the standards and principles of good domestic heating, was produced by the Design Research Unit and designed by Eric Brown and Stefan Buzas.



LCC to Buy Hurlingham

Hurlingham Polo Grounds, Fulham, are to be bought by the London County Council for use partly as an open space and partly, on behalf of the Fulham Borough Council, for housing. No. 1, ground about 60 acres, seen in the left of the photograph, will be used as public park and No. 2, about 14½ acres, developed as a site for four hundred flats. No. 1 ground abuts on the river Thames for about 550 yards. Much of it is laid out as ornamental gardens and the considerable southern portion is wooded and contains a lake. Hurlingham House, within the woodland, may merit inclusion in the LCC's list of historical buildings. The estimated cost of acquisition and partial development of the grounds is £700,000. The LCC will ac-

quire No. 1 ground by a compulsory purchase order under Section 10 of the Town and Country Planning Act, 1944, and No. 2 by compulsory purchase, on behalf of the Fulham Council, for the purposes of Part V of the Housing Act, 1936. Despite the decision of the LCC to take over Hurlingham the members are determined to keep the club alive. "It is unthinkable," says Colonel G. Ritson, a member of the Committee, "that Hurlingham, and all that the name stands for, shall be allowed to die. I do not think we shall be able to save Hurlingham on its present site, but we shall take counsel's opinion. If we can fight the LCC we shall do so." The picture was taken from the air by a staff photographer of *The Times*.

A fully illustrated report will shortly be issued by the Town Planning Institute of the visit of fifteen British Town Planners who have returned from an OFFICIAL TOUR OF HOLLAND.

The fifteen planners were: H. W. J. Heck, Col. W. S. Cameron, W. R. Davidge, E. H. Doubleday, M. J. Hellier, E. L. Higgins, Prof. W. G. Holford, Max Lock, James Macaulay, G. L. Pepler, Reginald Poole, A. R. Potter, O. A. Radley, J. R. Howard Roberts and W. L. Warde. A motor coach took the delegates on a thousand mile tour. Each day they visited a different war-damaged town, where, as guests of the Burgomaster, they met leading planners and technicians to discuss with them planning and reconstruction problems. Amsterdam, Arnhem, Nijmegen, Rotterdam, the island

of Walcheren, and The Hague were among the places visited. Middelburg had been twice heavily bombed, says a preliminary report of the TPI, but now under the direction of the town planner, Dr. P. Verhagen, whole streets of shops and houses have already been rebuilt in a manner that has enhanced rather than detracted from the former beauty of the town. Features of great interest in Rotterdam included extremely well designed temporary shops, and the new, clean, brilliantly lit road tunnel under the Maas, completed in 1943, and comparable with the Mersey Tunnel. New plans for the building of a residential neighbourhood on the South of the Town by the architect Dr. W. van Tijen and the engineer Dr. C. van Traa, were of particular interest to the planners concerned with social aspects of housing estates. For a town in a beautiful setting, Arnhem could hardly be improved. The members of the British delegation felt that all material and techni-

cal assistance should be given to the keen men who are replanning the town to make Arnhem an outstanding example of vital town planning to the democratic world. Amsterdam has perhaps the most advanced and comprehensive plan in the world, directed by Mr. L. S. P. Scheffer. This was studied by the British team, who were taken to see the construction of a large artificial lake for boating and sailing which was to form the central feature in the layout of 3 housing neighbourhoods on the west of the city. They were also shown the plans for the rebuilding of the Jewish quarter which they visited. In The Hague, where flying bombs were launched behind the cover of the houses, the new reconstruction plan of Mr. W. M. Dudok was studied. It is a plan with grand street vistas leading up to the climax of the great square of the proposed Government buildings; a plan with free and gay use of open spaces and with courage enough to put all rail traffic in a 3-mile tunnel under the city.

★ *The Joint Contracts Tribunal has considered the manner in which it thinks THE INCREASES IN EMPLOYERS' CONTRIBUTIONS in respect of Health and Pensions Insurance announced in the White Paper Cmd. 6878 should be dealt with in current contracts.*

Clause 25a, entitled Fluctuations in the RIBA 1945 Standard Form of Contract, was not drawn with the intention either of anticipating or covering the situation which might arise if and when statutory effect were given to the proposals for National Insurance contained in the Beveridge Report, says a statement issued by the NFBTE, but was framed on the basis of past experience in the matter of alterations in employers' contributions for the statutory assurances. Thus upon the legal construction of this Clause any increase or decrease in the amount payable by the contractor in respect of such employers' contributions is not the subject of an adjustment of contract sum under that Clause. The National Insurance Scheme provides for a very substantial rise in the amount of employers' contributions and the increase announced in respect of pensions in Cmd. 6878 with effect on September 30, 1946 (i.e., 11d. per week per man) is a first instalment towards raising the level of employers' contributions to that required for the full operation of the National Insurance Act. It is the opinion of the Joint Contracts Tribunal that, ethically, this increase with effect on September 30 last should, in respect of, at any rate, some current contracts, be an addition to the contract sum. The Tribunal proposes to re-examine more fully the terms of Clause 25a of the RIBA 1945 Standard Form of Contract having regard to the requirements of the National Insurance Scheme. Under the RIBA form of contract the architect has no power to certify this rise in the employers' contribution, and therefore he can do no more than put the position before and, if he sees fit, make a recommendation to the building owner, leaving him to decide whether or not he will consent to an addition to the contract sum. Tenders delivered after notice has been received of the official announcement of the forthcoming increases should include this additional employers' contribution.

Mr. James Austin has been appointed PRESIDENT OF THE ENGLISH JOINERY MANUFACTURERS' ASSOCIATION.

At the annual general meeting of EJMA, held in London, Mr. James Austin, of Austins of East Ham, Ltd., the senior Vice-President, was unanimously appointed President, Mr. R. W. Mugford, of Duncan Tucker (Tottenham), Ltd., the retiring President, becoming Immediate Past-President, Messrs. John Duxbury, of Magnet Timber, Ltd., and M. Van Westerborg, of Joinery & Builders' Supplies, Ltd., with the addition of Mr. W. E. Adams, J.P., F.C.I.S., of John Sudd & Sons, Ltd., the late Hon. Treasurer, were unanimously elected Vice-Presidents. Mr. E. W. King, A.O.B., of E. W. King & Son (Newport), Ltd., was nominated, as Hon. Treasurer. Messrs. T. B. Hustler, of James Hustler & Son, Ltd.; S. A. James, of Wm. Thomas & Sons, Ltd.; Henry N. Newsum, M.C., J.P., of H. Newsum, Sons & Co., Ltd.; T. Osborne, of Midland Joinery Works, Ltd.; H. J. E. Ripper, of Rippers, Ltd.; and I. A. Rutherford, of Rutherford, Geake & Co., Ltd., were elected Members of the Council.

THE FUEL CONFERENCE AND HEATING TRENDS

THE Conference held in London last week under the sponsorship of the Ministry of Fuel and Power was vast in its scope. There were seven separate sections as well as a number of combined meetings. In one section alone, *Modern Heating and the Architect* held at the RIBA, there were something like fifteen nominated speakers. Thus it is not easy to see in proper perspective as yet the true significance of the various contributions. It is clear, however, that the Conference raised or confirmed a number of points which are of vital importance to housing.

Outstanding is the fact that official representatives of the Ministry of Fuel and the Ministry of Health re-stated the major points of the Simon Report and thereby confirmed official approval of the revolution in standards of heating for small houses.

There is an immediate implication that architects in future must be prepared to fit themselves to appraise the efficiency of systems of heating and of individual appliances and that they must be prepared to consider quantitatively the thermal insulation values of the structure of their houses. Two of the most interesting papers dealt in detail with this subject of insulation and showed quite conclusively that good insulation can pay very handsomely both by saving of national fuel resources and saving of cost to the householder.

Considerable attention was given to the present policy of background heating plus topping up and our impression is that there is a good deal of feeling that something better than this is both desirable and economically possible.

The reduction of atmospheric pollution came up for discussion at almost every session. With the clearly stated Government policy on this given in the Simon Report and the great interest shown by the delegates to the Conference, it seems that at last we may be getting beyond the mere payment of lip-service to the ideal of obtaining clean living conditions in our towns.

The special joint session on District Heating drew a very large attendance and it is clear that here, too, we are passing from the period of investigation and discussion to action. Manchester has a large scheme which only awaits Ministry of Health approval, Urmston has a scheme under construction and Westminster is considering the possibility of District Heating for a large number of flats.

A point of especial importance to architects both in connection with District Heating and with improved methods of individual house heating is that the new heat services automatically and inevitably introduce new planning possibilities. Doubtless the profession will be quick to grasp the opportunities.

The really significant thing about this Conference, however, is to be found not so much in any of the individual contributions but in the fact that it was held at all; that it was Government sponsored and that it was, by its title, directed as a planning

measure looking to the future. The contributions made and the interest shown by the delegates would have been quite impossible to attain in the pre-war period. It does indeed show how far we have progressed in our outlook.



The Architects' Journal

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

Phone: Whitehall 0611

N O T E S & T O P I C S

IN SEARCH OF A WORD

Most argument starts because people interpret the same word in different ways. It was therefore a sensible audience that heard Dr. Siegfried Giedion at the MARS group lecture at the RIBA on *The Need for a New Monumentality*, because it began its discussions by trying to define that word Monumentality.

Dr. Giedion's theme, which in some of its aspects has been a subject of debate in the Group for some time, ran as follows: A new monumentality is needed because the old one has degenerated into dead clichés, indiscriminately applied. The Modern Movement is the only architecture competent to create it because it has successfully discarded the remains of the outworn monumentality and has laboriously built up its own formal discipline. It has been necessary to start from scratch owing to the vulgarization of the old monumental symbols—a process that began under the First Empire. Now equipped with the resources of modern architectural technique we have to reconquer the power of monumental expression. People have a right to demand of the architect, as of other artists, symbols to express their aspirations—joy, excitement, every luxury.

Architects must collaborate with painters and sculptors to satisfy the common man's emotional needs in noble forms. Modern Architecture is in mortal danger if we fail in this.

But that word Monumentality seemed to confuse people. To John Summer-son monumentality was only present where the design was on the heroic scale, rather than the human, a quality that he saw solely in classical architecture. Obviously that was not Dr. Giedion's meaning which was much nearer to what a sociologist would call Symbolism. Ruth Pocock took the term to mean a visible record of people's joy in living. Other people variously denied that monumentality had a place in the present age or gave the word a more general and popular meaning than the one usually current in architecture.

This discussion about a word may have seemed laborious to some of the audience but I think it is important. Monumentality is surely not a satisfactory term to express Dr. Giedion's argument, at least in this country, for to most people it certainly does imply a mixture of the pompous, the insincere, the sentimental and even the megalomaniac.

The right word has yet to be found, but Mr. Roth offered a useful pointer during the discussion at the RIBA in claiming that a dictum that neatly aphorised the whole affair was Corbusier's *le palais une maison, la maison un palais*.

TRAVELLERS' TALES

The entrance to Stockholm—pine trees, the Southern hospital, the long, clean tunnel dynamited through the rock, and then over water and through the centre of the city with its constant contrast and surprise. Here the old lives with the new to the benefit of both and all the attributes of the picturesque exist except those most often and falsely associated with it—the contrast of squalor and opulence. Such are the most vivid memories

brought back by a colleague from a summer journey to Sweden.

There, he tells me, the new architecture, as we know, has settled down in marriage with tradition with all the comforting and popular associations that such a marriage brings. However, the most exciting part may yet be to come. For whereas in most countries modern architecture is still either doddering or else in various stages of arrested development, and anxious parents are busy choosing it the right school, in Sweden it is fast approaching the mature, if dangerous, years of middle age.

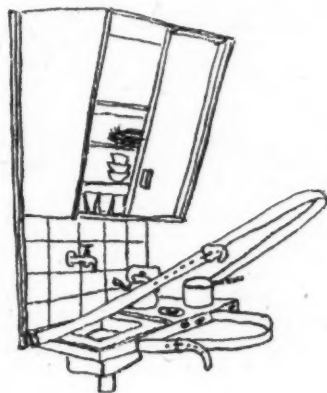
As for the bodily senses, smörgs-bord, schnapps, krafted (crayfish to the uninitiated), sour milk *ad lib.* in the midst of a strong and ubiquitous smell of herrings (lacking as yet that added pre-war tang of coffee), must, in these days, of limited space, do to get on with.

Painting in Sweden apparently bears out the reflections of Ruskin who writes in his catalogue of art according to geography: "Moss-lands, a healthy race, capable of high mental cultivation and moral energy, but wholly incapable of art, except savage, like that of the forest-lands, or as in Scandinavia." Now that fountain pens sell twice as fast if they can be used under water, it is not surprising to hear that in the window of one of the leading art dealers in Stockholm stands a huge Victorian picture of the popular conception of a virtuoso playing vigorously on a violin while immersed in a waterfall. There was always an ad-man.

Modern art flourishes but, apart from a few notable exceptions, is strongly derivative. One of the most lively art productions is *Gasblandaren*, the

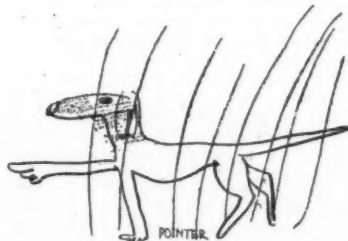


magazine of the students (past and present) of Stockholm's technical university. Here advertisements and editorial are hard to disentangle, for they are done by the same men and show an equally high standard of humour, draughtsmanship and northern feyness.



Just returned from Paris, another colleague reports surprisingly that little is lacking in France except butter for the *petit déjeuner* and sugar. A first-class meal can be had—including wine and *pain à discretion*—for six shillings. Luxury goods [Britain can make them—for foreigners] line the boulevards to such an extent that stickybacks are already appearing in public places bearing the slogan: "Les magazines sont pleins, les portefeuilles sont vides —Réclamons le Revenu Social."

The Opera retains its traditional magnificence and wealth of cast, ballet and orchestra. What impressed this traveller particularly was the setting of the old opera house, which forms so important a part of the whole entertainment—especially the vast and generous passages, salons, foyer and staircase where one can parade with dignity between the Acts, while discussing the virtues of Massenet or the difficulties of presenting the refinements of



The sketches reproduced here are from *Gasblandaren*, the Swedish students' magazine, on which Astragal writes above.

Mozart with such unrestricted resources.

Chartres has happily escaped war damage and enough of the wonderful glass has now been replaced to reopen the old question—how was it done? [No less impressive was the spare figure of Sir Patrick Abercrombie which was glimpsed by my colleague battling tenaciously, hand firmly on hat, through a memorable north-west gale on a pilgrimage to the Cathedral.]

The French have their own special problems of reconstruction—the rebuilding of certain very heavily damaged towns in the battle areas and the restoration of communications. The work does seem to be based on a preconceived plan and the Ministry of Reconstruction has many projects in hand for various parts of the country. A display in the main building of the Ministry illustrating the problems and an album of selected jobs which have been approved, speak well for the PR department, which provides efficient service without red tape.



LONDON TRANSPORT

The new London Transport posters by Zero ["Hands at Your Service"]—are a welcome advance on recent designs, which particularly in the courtesy series, have been touching depths of banality unplumbed for twenty years. Perhaps this improvement is due to the new Advisory Design Committee (Herbert Read, Philip James, Pettigrew, Gibson) which was recently set up by Lord Ashfield. If so, we are grateful to them, and wish them luck in their deliberations.

It has been disheartening to watch the steady decline in aesthetic standards which has followed the death of Frank Pick and the departure to the GWR of Christian Barman, and though we feel a bit better now it's no good thinking an advisory committee, however distinguished and reliable its members, can take the place of one controlling mind.

ASTRAGAL



LETTERS

Frederick W. Hagyard, L.R.I.B.A.

John Gloag

T. W. Causton, L.R.I.B.A.

Fountains Abbey

SIR,—Far be it from me to criticize an utterance of a man like Sir Charles Reilly, but I am sure his remarks on the subject of Fountains Abbey, by no means represents the feeling of the majority of those of us who appreciate these fine historic monuments.

If his reasoning were carried a stage further it might be applied to the purchase of, say, a fine but derelict 17th century house acquired for restoration to its original use, a home. There would be no hesitation in architectural circles in applauding such a move to preserve early craftsmanship in this way; and I cannot see that, because Fountains has such a lovely setting, that it should not be put into a good and useful state of repair.

It is only the fact that the Monks of the Cistercian Order—to which, by the way, Fountains belongs—built their Abbeys in remote and secluded parts of the country, and therefore at the dissolution were not suitably sited for use as parish churches or cathedrals, that accounts for this Abbey ever having become a ruin at all. Some of the Benedictine Abbeys, for instance Ely and St. Albans, became cathedrals, being situated within a community where their churches could be used as such; and so they remain to us to-day preserved priceless specimens of early workmanship.

I saw the Monks rebuilding Buckfast Abbey, and they had far less to preserve than the extensive and beautiful remains at Fountains.

I personally should like to think that I shall live to see Fountains Abbey carefully restored for its original function, if only to enable it to be handed on to posterity with yet another period of architecture, that of our own time, added to the long line of architectural styles from the

FIRST DOUBLE-DECKER TOWN



If the Ministry of Town and Country Planning approves, Hastings may become the first two-decker town in the world, having shops and pedestrian ways on one level and traffic roads on the other. Above is a model of the town centre looking from Wellington Place up to Cambridge Road, and a model of the proposed viaduct promenade enclosing a lagoon along the front. The scheme includes three new residential areas, the continuation of the double-deck promenade principle to include the whole of the St. Leonards front, the extension of the promenade on a viaduct to the eastward of Rock-a-Nore as far as Ecclesbourne Glen with a marine lagoon three-quarters of a mile long (as in the above model), and the construction of an airfield. Parts of the new scheme were shown last week at an exhibition held in connection with the first post-war Congress of the International Federation for Housing and Town Planning opened by the Minister of Town and Country Planning at Hastings.

12th century upwards incorporated in such a magnificent foundation.

Brockham

FREDERICK W. HAGYARD

Astragal and Raymond Loewy

SIR,—When Astragal says "Over to you, Mr. Gloag," I presume he wants me to reply to some strictures on the work of Mr. Raymond Loewy which he made in the course of reviewing a new edition of my book, *Industrial Art Explained*, in your issue of September 12. He objects to some of the phrases used by Mr. Loewy in the paper entitled *Selling Through Design* which I read for him before the Royal Society of Arts in 1941, and which is reproduced as an appendix in my book. Astragal asserts that Mr. Loewy's paper was "full of jargon," and selects as examples two phrases: "contagious selling" and "consumers' suction," but omits to say that Mr. Loewy himself put those two phrases in inverted commas, and quoted them with the light-hearted exuberance that happens to be an American characteristic, but which Astragal, no doubt fingering an old school tie or caressing a Blimpish moustache, stigmatises as vulgar. I can almost hear him murmuring: "Gad, Sir! Design is going to the dogs!" Possibly he prefers the psychological and other pseudo-scientific jargon which some of our tedious uplift-mongers employ when they want to say: "Design is good for you," and say it in as many long words as possible; but I prefer Mr. Loewy's hard-boiled common sense when he says, in effect, "good design is good business," and proves it with practical examples which convince practical industrialists.

I agree with Astragal, that when some things are tidied-up they lose their initial virility of form; but I suggest that this happens only when the tidying is done by one of those oppressively earnest young or middle-aged or almost-old practitioners of the "modern movement in design" who has dispensed with or never possessed the quality of mind that alone justifies the attempt to design anything—imagination.

East Sheen

JOHN GLOAG

Conditions Abroad

SIR,—I was interested to read the views of an architect fresh back from Iceland and can only conclude that the Arctic doesn't vary a lot from the Tropics as regards cost of living. It certainly emphasises the necessity of obtaining accurate information regarding conditions prevalent in the land to which one may be tempted to go.

Here in Trinidad, which may at one time have been a peaceful tropic island, noise and heat predominate and cost of living is easily twice that of England, while incomes have not increased in that proportion. Board and lodging per month per person cost from £20 upwards, while the nights are rendered hideous by gangs of stray dogs fighting for scraps and cockerels that crow non-stop.

Local transport is very inadequate and congested and for the average town dweller a car costing from £400 to £600 is absolutely essential in order to escape to the country or even get a bathe in the sea.

Food is plain and unvarying, and as no rationing exists at the moment items like butter, margarine and sometimes eggs, are quite absent for weeks at a time.

Houses for rental just don't exist, but one can purchase a flimsy structure with four walls, a corrugated iron roof and built on concrete piers for about £2,000.

So you see brother architects, life in England still has its compensations.

It would be interesting to learn what conditions prevail in other parts of the Empire.

Port of Spain,
Trinidad

T. W. CAUSTON

PHYSICAL PLANNING SUPPLEMENT



LA RÉGION PARISIENNE

RECENT DEVELOPMENTS IN THE PLANNING SCHEME

Planning in France is now actively directed towards the war-damaged areas, under the Ministry of Reconstruction. Paris has suffered comparatively little within its central area, although certain railway areas and factories on the outskirts were heavily bombed by the Allies. Early this year, the plans guiding the development and improvement of the city were brought up to date, and are illustrated on the following pages, together with a series of sketch maps showing the development of Paris during its history. Acknowledgment is made to the Ministry of Reconstruction for the recent proposals and to the book *Pierre Sur Pierre* by Gaston Bardet for the historical plans. Above, an old print showing the city of Paris in 1618.

Every student of Town Planning is familiar with the plan of this beautiful city of Paris after the work of Haussman in the last century, but the various stages of development leading to its present structure and the future proposals are by no means common knowledge. The intention of this Supplement is to present pictorially the growth of the city and to indicate the latest proposals for future control and redevelopment. Paris has not commissioned the preparation of a plan which can be compared with the comprehensive

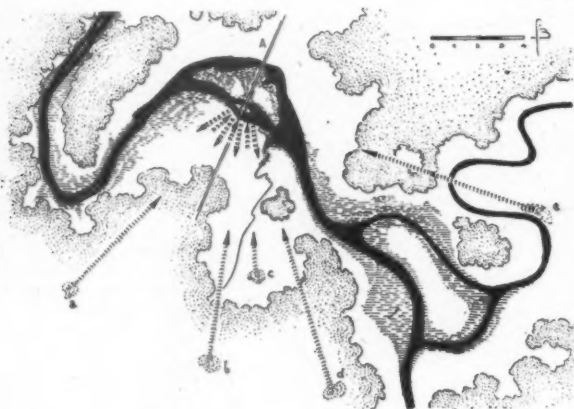
County of London and Greater London Plans, but the work of laying down the outline for future improvement has been in progress for several years, and has been brought up to date early this year.

Within the walls of Paris a network already exists of wide boulevards which give direct access between the main centres of interest, and at the junctions large areas for circulation are already available. The replanning of these junctions constitutes the main internal problem, and in spite of obvious signs that the layout of certain *places* has been tidied up from the traffic point of view, these still constitute a danger to pedestrians—a danger which is increased by the speed of the vehicles and apparent disregard for pedestrians. The most important proposals for traffic now include the construction of ring and radial roads, either completely new in alignment or by widening of existing roads. These proposals can be identified on the Road Plan on page 280 and include a new north-south route (Autoroute Sud and Autoroute du Nord), the Avenue d'Urbanisation de Paris (a direct route westwards from the Place d'Etoile), and the Grande Rocade or outer ring road. It is not clear, however, that traffic crossing from one side of the city to the other will in actual fact use these routes in preference to the existing direct roads across the city. Little alteration is envisaged in the railway

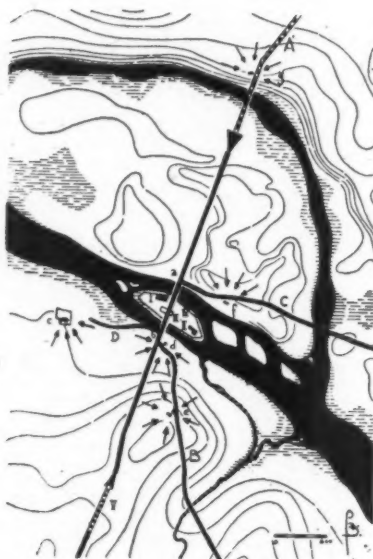
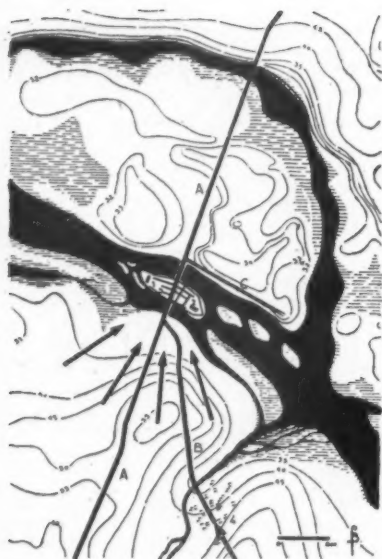
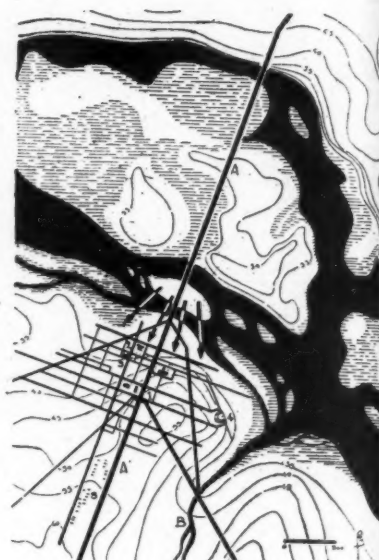
system, and the linking-up of stations north and south of the Seine is considered unnecessary. Additionally, there are difficulties of terrain which are put forward against the suggestion that a scheme like the recent London Railway Plan would be an advantage in Paris.

Paris has not the same problem of industry in the central areas and around the banks of its river that exists in London.

The proposals for industry are thus simpler in character and deal chiefly with the gathering of scattered industry into clearly defined zones. Other features of this latest Paris Plan include the preservation and improvement of open spaces, and the distribution of its population, which has tended to increase within the central area and decrease in the surrounding region during the present century.



Left, (1) a diagram illustrating the foundation of Paris in ancient times, the River Seine being outlined in black. The letter A indicates the north-south route crossing l'Île de la Cité. The small letters show positions of ancient villages, and the arrows the direction of movement towards the river crossing. Right, (2) Paris after the Roman Conquest: the city developed on the south side of the river, abandoning the previous location on the island. The north-south route continued to be the main influence on the plan.



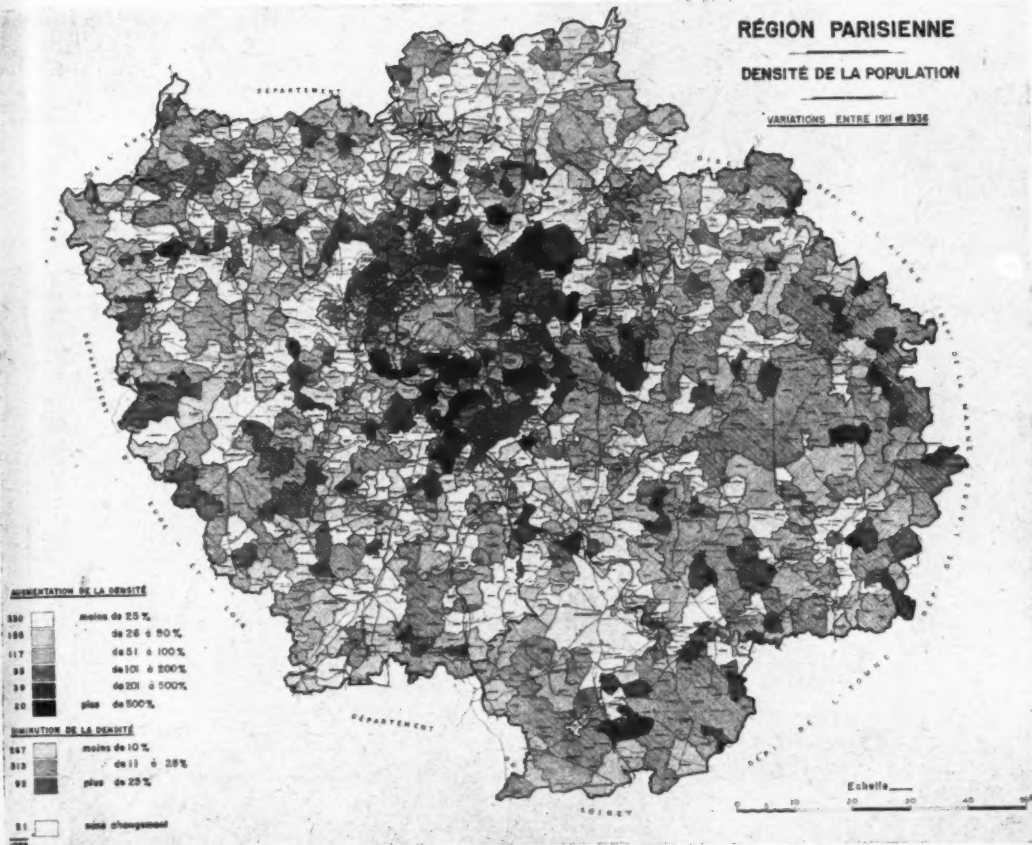
Above (3), Paris after the barbaric invasion of the third century. The city moved back again on to the island, abandoning the high ground of Sainte-Geneviève. Above right (4), the plan of Paris in the sixth century at the time of the conversion of the Franks to Christianity. The siting of certain existing features has taken place, the letter A indicates the rue Saint-Martin; B rue Mouffetard; C rue Saint-Antoine; D rues Saint-André-des-Arts and de la Huchette. The figure I indicates the Palace; II the Church; III the Market; IV the Ramparts.

DEVELOPMENT OF PARIS

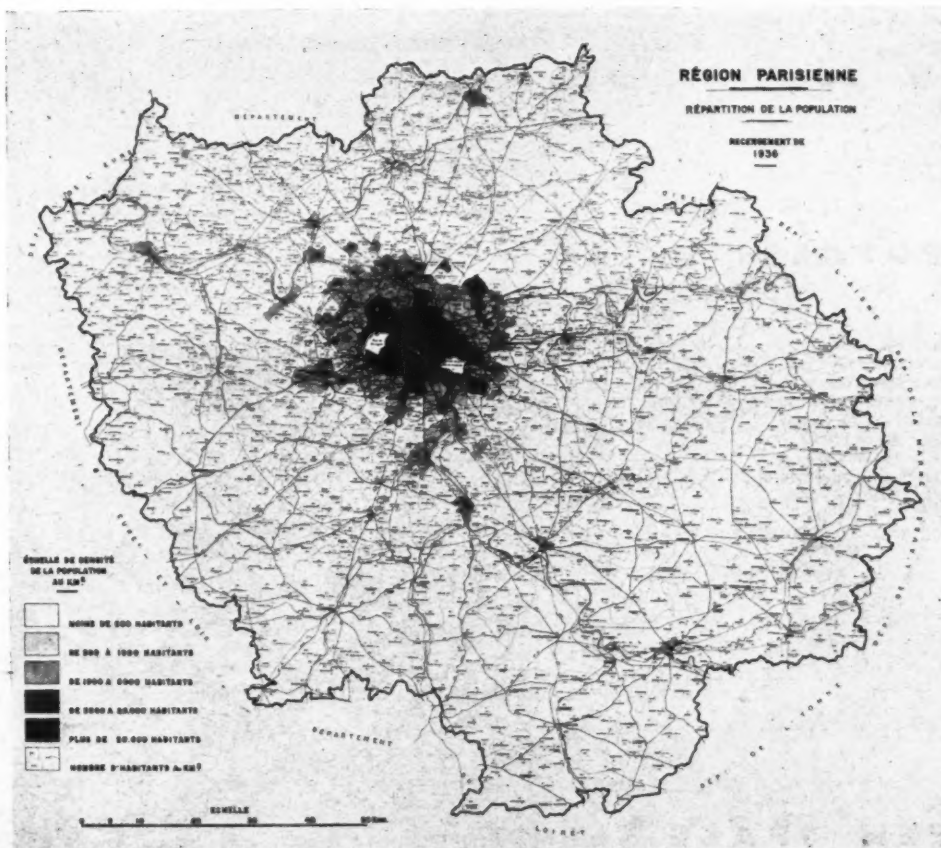


Above (5), Medieval Paris in the middle of the fourteenth century. The rings of fortifications which formed a strong influence in the later development of the plan can be seen encircling the old city. Left (6), the final development of the fortifications with the most recent (indicated by the letter K) built in 1840 and finally demolished after the Great War.

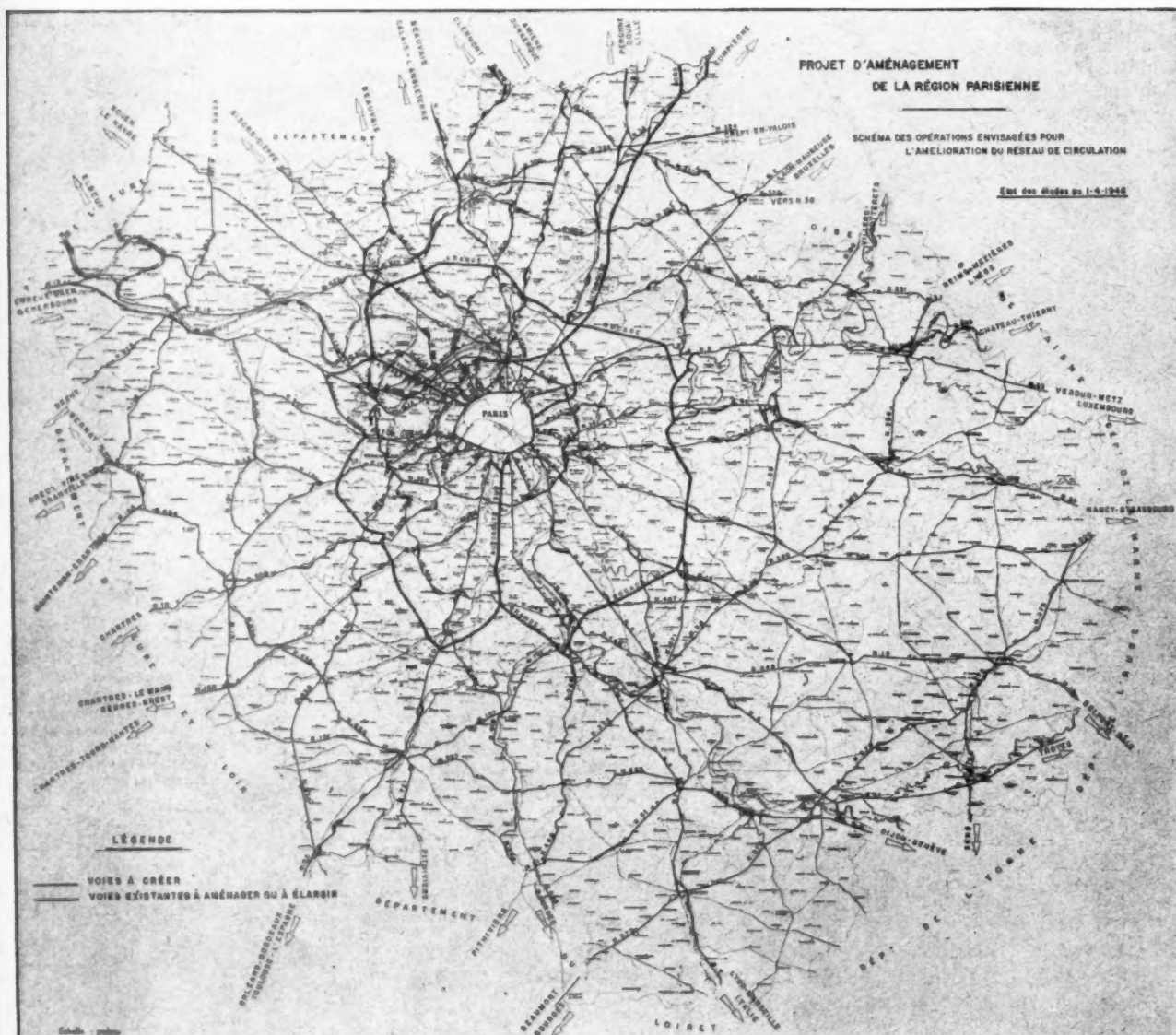
POPULATION



A plan showing the variation in the density of population in the Paris region between 1911 and 1936. The tendency for people to move towards the central area is very clearly marked, and corresponds to many similar examples in England.



The distribution of population in 1936. The large area of high density consists chiefly of flats, and old town houses converted into flats. This way of living is popular in Paris and leads to a compact city. At the same time, the numerous gardens, woods and the development of the river banks, give a certain open feeling.



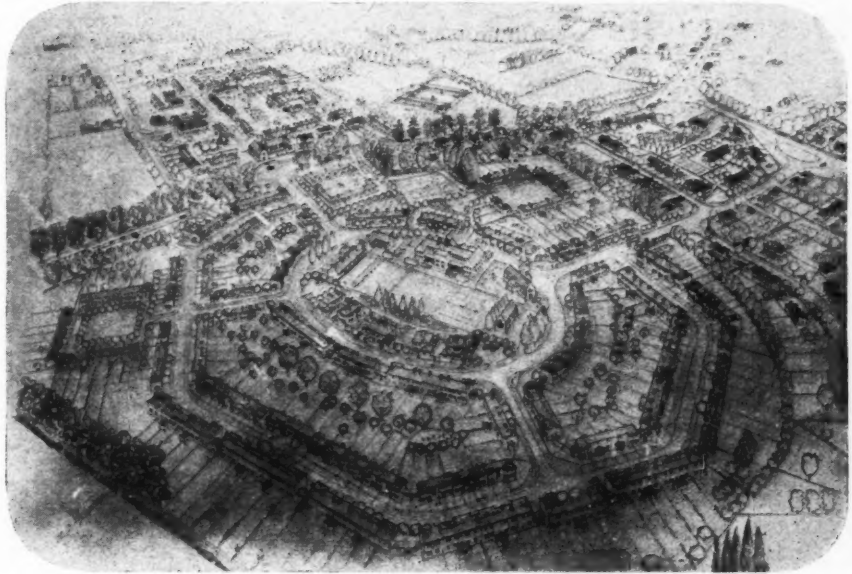
ROAD PROPOSALS

Above, the Road Plan which has been brought up to date this year. The proposals include a system of ring and radial roads ; some entirely new, and some utilising existing routes. Right, the proposals for the preservation of open spaces, including also parkways. A particular feature of this plan is the retention of the many forests and woods for which the Paris region is noted. The proposals for these in actual fact extend beyond the boundaries of this map, to cover the whole of the planning area.



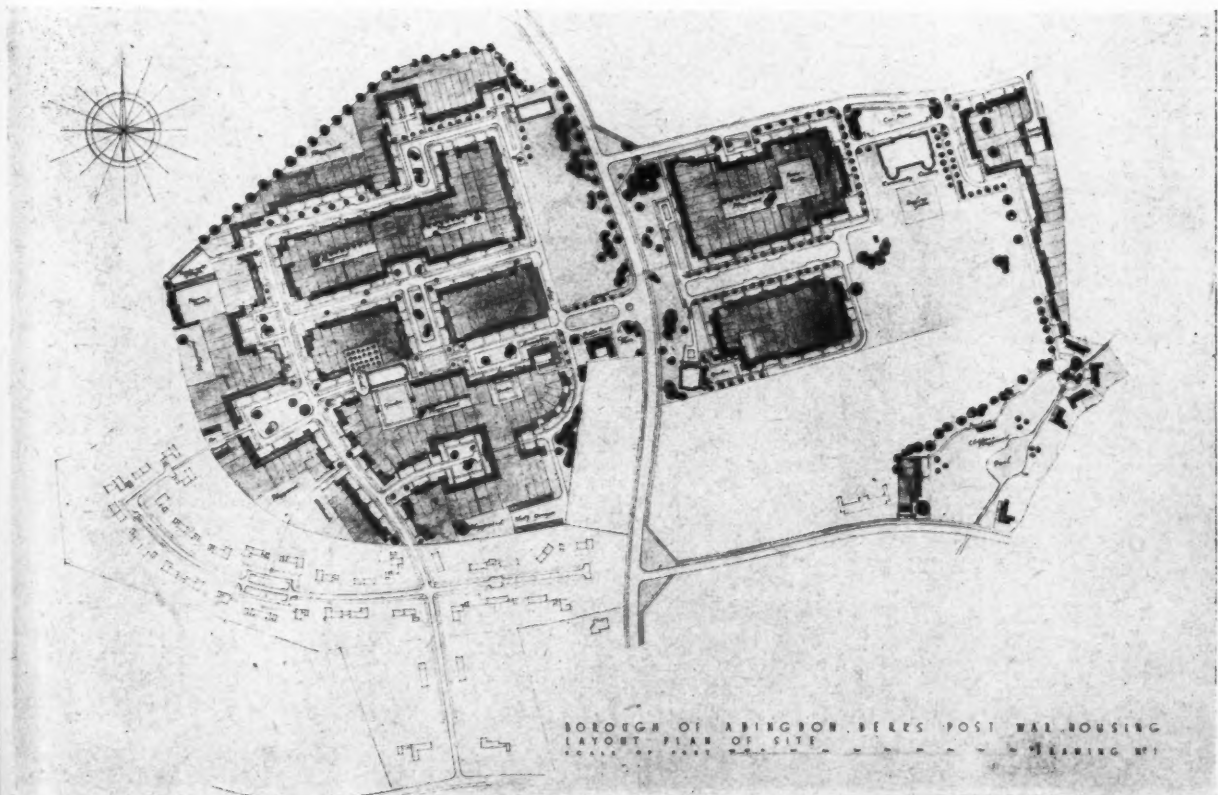
OPEN SPACE

Right, layout plan (No. 1b) Norman
Jewson and Harold F. Trew.
Below, layout plan (No. 2) F.
Russell Cox.

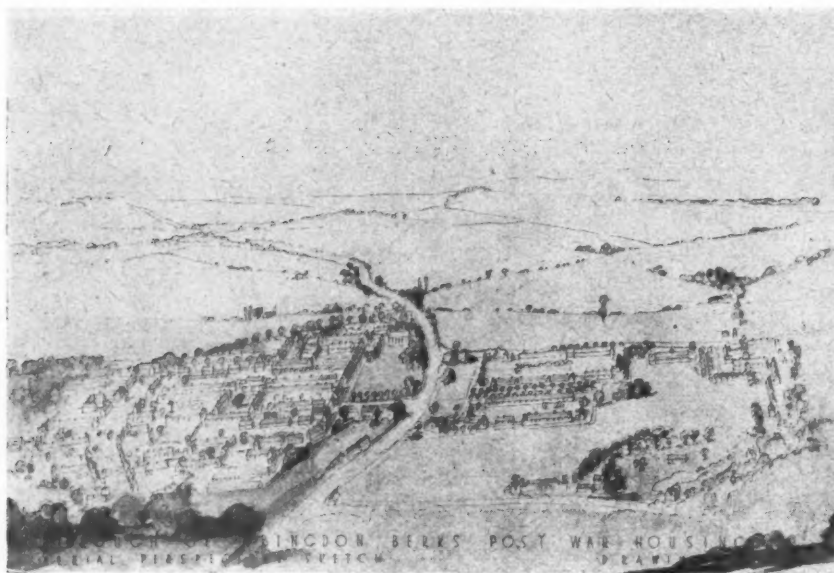


ABINGDON HOUSING COMPETITION

WINNING DESIGNS



Design No. 2 (£100) F. Russell Cox.



Above, aerial perspective sketch. Below, block of eight houses.

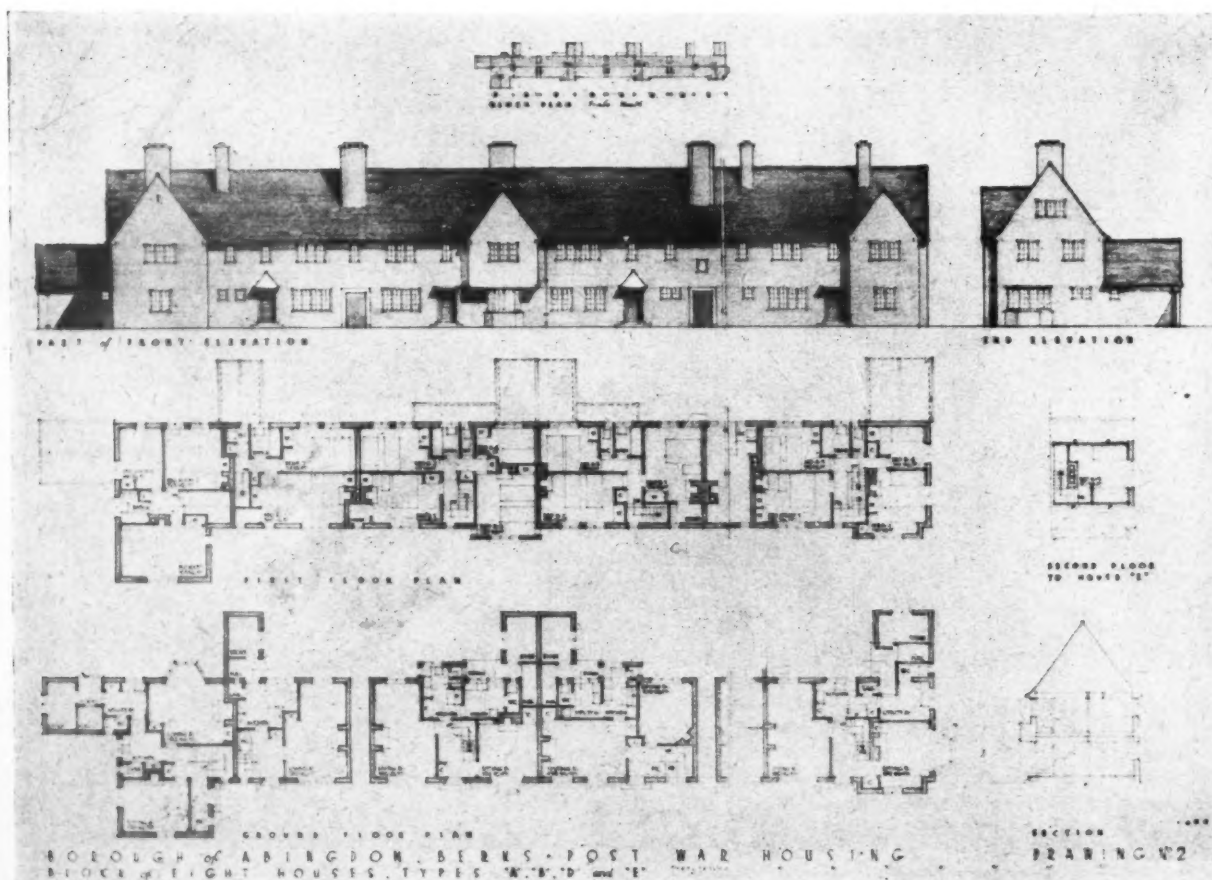
In the competition for the layout of the proposed housing site and building designs for the Council of the Borough of Abingdon, Berkshire, Mr. Thomas Rayson, F.R.I.B.A., of Oxford, the assessor, recommended that the premiums should be allocated as follows:

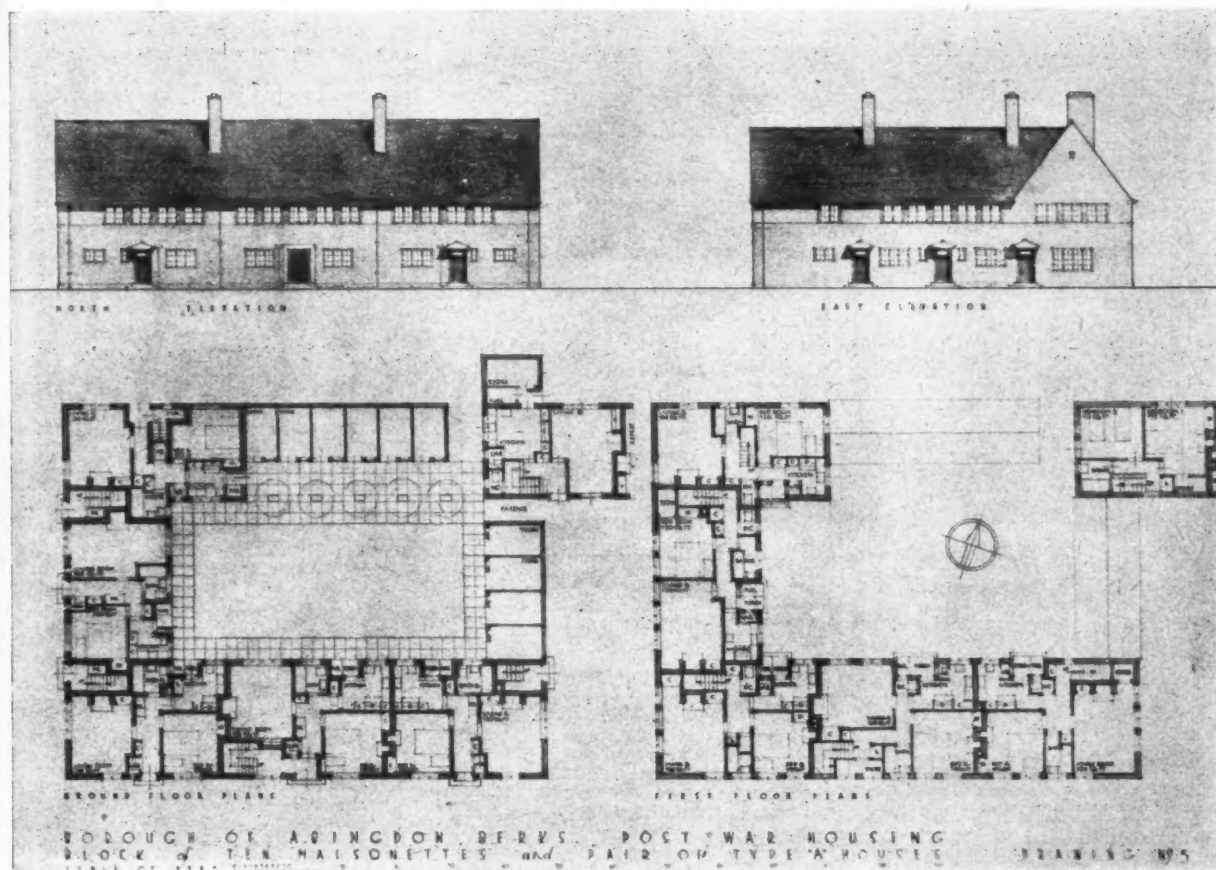
No. 2. £100: F. Russell Cox, F.R.I.B.A., Burford, Oxon.

No. 1. £50: Norman Jewson, M.A., F.R.I.B.A., Cirencester, and Harold F. Trew, F.R.I.B.A., M.T.P.I., Gloucester, plus a sum to be paid for the copyright of their layout.

No. 3. £50: T. Lawrence Dale, Carfax, Oxford.

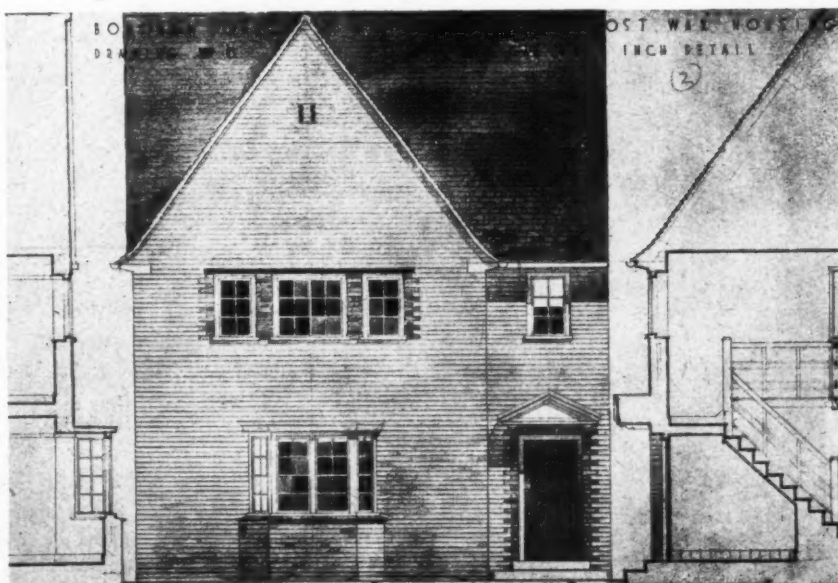
In his report the assessor says: No. 1B has adopted a circular plan of road with a square central space, which is made the nucleus of his plan. Round this square he has put his public buildings and shops. The line of road from Faringdon Road northwards to this centre is a good curve but I cannot help regretting more has not been made of this. It could be made an essential, dignified backbone of the scheme. This is the only competitor who has discovered this feature and even he fails to complete it. Old people's flats are near



Design No. 2 (£100) F. Russell Cox.

Above, block of ten maisonnettes and a pair of houses. Below, typical details.

the centre. The four to the acre area has been dealt with in a good, simple way, but would benefit with a connection at its north-western end with the main scheme. The playgrounds are well distributed though they are haphazard in shape and have no architectural layout. Lock-up garages have been provided in an adequate quantity. The lines of the eastern layout are good but would be better without the fussiness of the treatment. The position of the access road from Northcourt Road is good and leads to the middle of the area. This is the best layout scheme. The designs of buildings submitted by No. 2 are extremely good. It is a pity his layout is not better. I do feel that we cannot deny ourselves the benefit of the designs of the buildings submitted by No. 2. They are delightful and quite worthy of the proposal. I suggest, therefore, that No. 2 should be deemed to be the successful competitor on condition that satisfactory arrangements are made with the author of No. 1B to adopt the main lines of his layout.

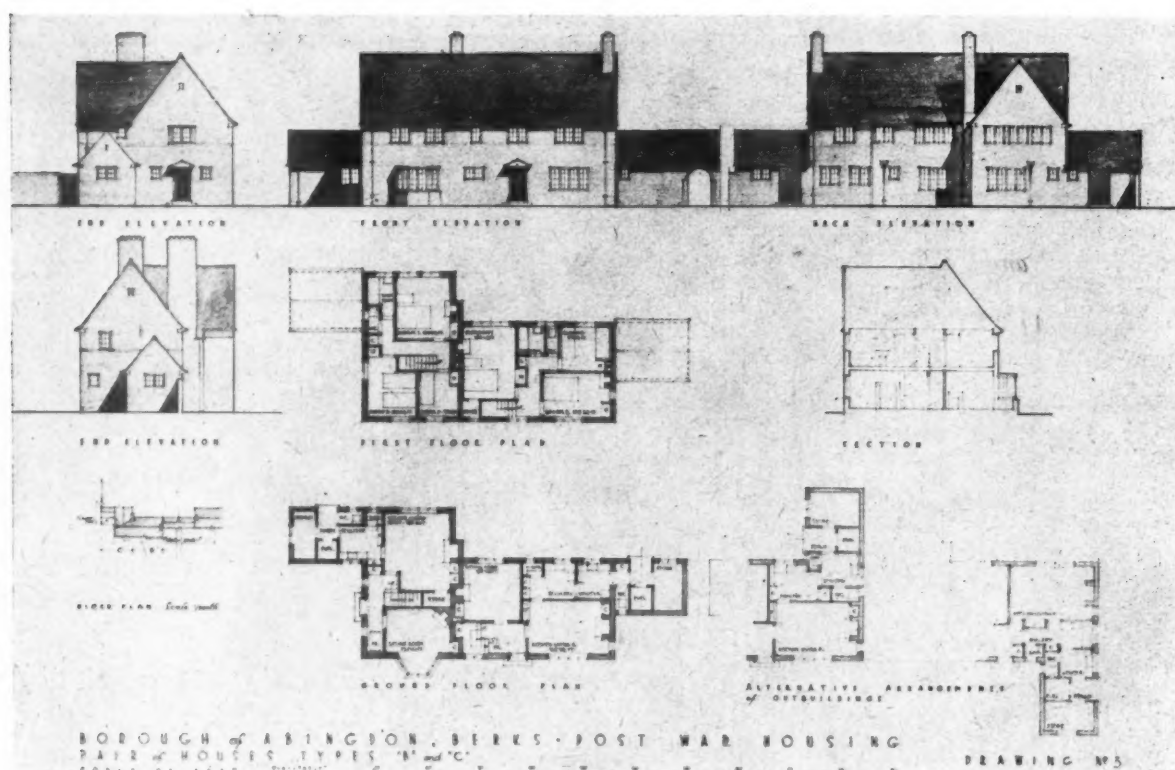


ABINGDON

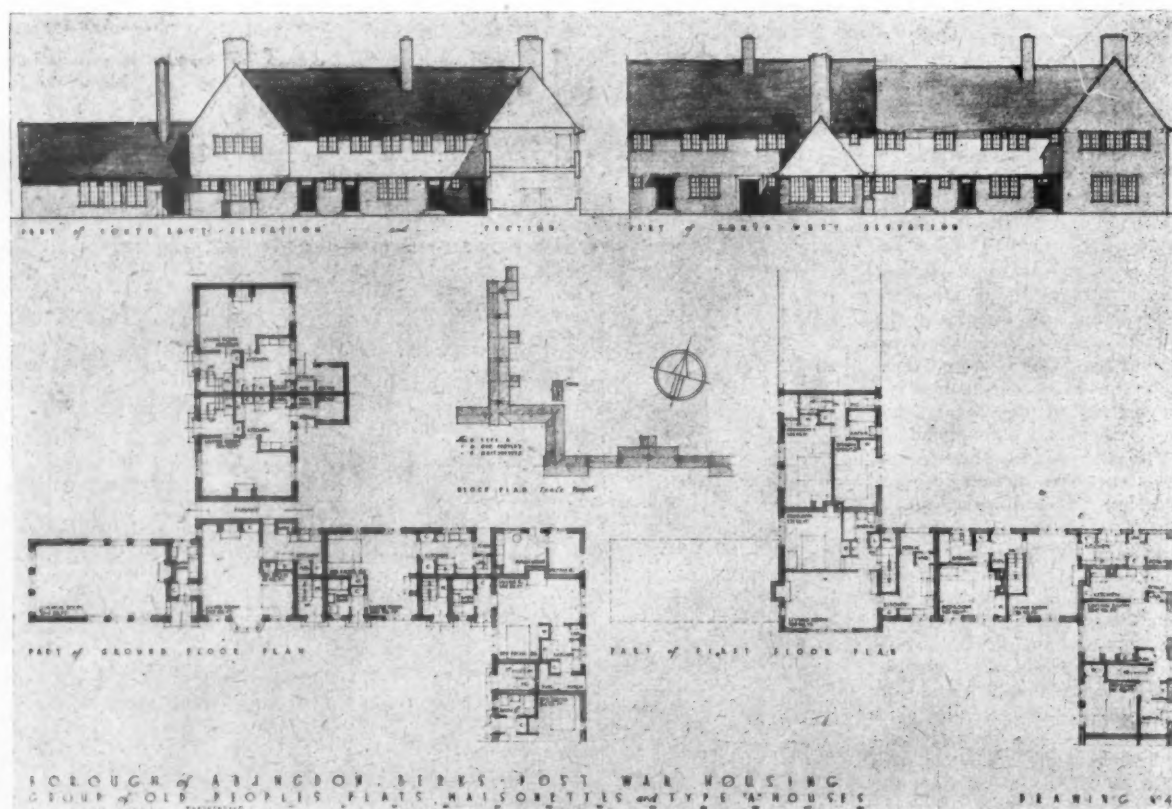
HOUSING

COMPETITION

Design No. 2 (£100) F. Russell Cox.



Above, a pair of houses. Below, group of old people's flats, maisonettes and houses.



ABINGDON HOUSING COMPETITION

INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

PHYSICAL PLANNING

2768

Airport Planning

AIRPORT PLANNING FOR URBAN AREAS. US Department of Commerce: Civil Aeronautics Administration. (US Government Printing Office, 1945, 20 cents.) Official bulletin dealing with aerodrome planning, site selection and estimating needs for various types of aerodromes. Five appendices. Illustrated.

The pamphlet has been prepared to aid US metropolitan area planning groups to obtain a knowledge of the fundamentals of aerodrome planning as it affects large size communities. It also refers to localities where aerodrome needs are multiplied by diverse types of aviation activities.

Part 1 gives a survey of some important basic considerations, such as numbers of aeroplanes to be accommodated; the volume of a given type of flying to be expected; the length of landing strips; the shape of runways; the size of the landing area; the location of aerodromes in relation to co-ordinated regional and city planning; commercial and residential zoning requirements in the vicinity of aerodromes, and planning for future expansion.

In Part 2 detailed reference is made to site selection. Among factors influencing the size of aerodromes, the following are analysed: the performance characteristics of an aircraft to enable it to tackle safely any known fixed obstacles in its glide path; the topographic characteristics of the site; the volume of traffic measured in terms of the number of plane movements in a limited period of time, and meteorological conditions determining the length of runways. Factors influencing the location of aerodromes include sufficient distance between neighbouring aerodromes; atmospheric conditions; proximity to established cross-country air-routes and to the ultimate destination and source of passengers and cargo. Useful tables are provided giving recommended aerodrome standard sizes for four different classes, namely:

Class 1 to accommodate small private owner types.

Class 2 to accommodate larger size private owner types and some small size transports.

Class 3 to accommodate present-day transports.

Class 4 to accommodate the largest planes in use and those planned for the immediate future.

A further chapter deals with estimating the needs for various types of aerodromes for an area under consideration. For instance, in the sphere of light plane operations, knowledge of the number of people likely to buy and operate their own planes and where these potential owners live in the community, will give the planner a clue to (1) the number of small fields required, and (2) the general areas within which he must try to provide them. An interesting survey

is given of examples of analytic methods used in various parts of the country to estimate needs.

Appendix 1 consists of a tabulated index of American aircraft giving the company's name, the model designation, the index number (wing x power loading), and the gross weight.

Appendix 2 is an accident study dealing with collisions of aircraft with buildings.

Appendix 3 contains an estimate of scheduled air traffic and international air traffic for the Philadelphia-Camden metropolitan area prepared by the Philadelphia City Planning Commission.

Appendix 4 is a reprint of the Law Relating to the Metropolitan Airports Commission, prepared by the State of Minnesota, Department of Aeronautics.

Appendix 5 gives the Model State Airport Zoning Act, November, 1944, drafted and recommended by the National Institute of Municipal Law Officers.

Although the pamphlet is written for American planners and based on American data and requirements, it is, nevertheless, a valuable guide to the sort of approach that is needed in planning for civil air transport generally.

STRUCTURE

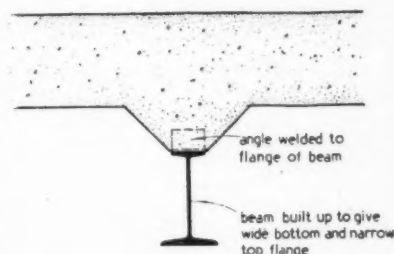
2769

Composite Construction

TRAEGER IN VERBUND-BAUWEISE. (COMPOSITE BEAMS). Dr. M. Ros and A. Albrecht. Eidgenössische Materialprüfungs- und Versuchs-Anstalt für Industrie. (Bauwesen und Gewerbe. Zürich, Bericht No. 149. March, 1944.) Report on static and dynamic tests on 25 composite specimens and 5 composite beams. Recommendations for design and practical applications. Structural details. Experience 1935-1944. Bibliography. Very important report on a new type of construction not yet introduced in this country. 113 illustrations. 92 pages.

Composite construction as known in this country (see Inf. Centre No. 1560:17.8.44) consists of a light structural steel frame, subsequently cased with concrete and additionally reinforced if necessary. The composite construction dealt with in this Swiss report is different in so far as the steel structure is not encased. Compound action between steel joist and reinforced concrete slab is secured by welded anchors embedded in the concrete. The first application of this type of construction was in Switzerland in 1914. Since 1934 it has been adopted in a number of remarkable structures and is now used in the USA (see No. 2688:29.8.46), Australia (see No. 1819:1.3.45) and many other countries.

The purpose of the recent tests in Switzerland was to clarify further the technical and economic advantages resulting from the co-



Detail of composite steel and concrete construction as applied in Switzerland. See No. 2769.

operation between steel and concrete.

Two series of tests were carried out: In the first, different types of anchorage were investigated, in the second, five beams of 13 ft. span were included. In both series static as well as endurance tests were made.

On the results of these tests, detailed recommendations for the design of buildings and bridges could be made. Several examples of industrial buildings and bridges are also described in the report.

Composite construction allows a substantial saving in steel, the amount of which depends on the particular conditions of the individual structure. In the examples discussed it varies between 17 and 49 per cent. An additional advantage of composite structures as against pure structural steel is their increased rigidity. Simultaneously with the reduction in weight of steel, the deflection may be reduced by 50 per cent.

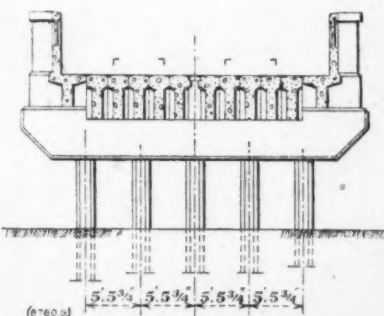
The report is very well presented and illustrated. It is an important contribution to the application of a new form of construction which should receive the attention of engineers and architects in this country.

2770

Railway Widening

THE CARLISLE-KINGSMOOR WIDENING ON THE LMS RAILWAY. (Engineering, June 14, 1946, pp. 555-557.) Double track railway bridge in pre-cast reinforced concrete units over river Eden.

The war-time growth of goods traffic necessitated the erection of a new double track railway bridge over the river Eden at Carlisle. The older bridge, carrying the main line, crosses the river in seven 41 ft. spans, on stone piers at 46 ft. centres. In the new bridge the same pier spacing has been adopted. It is supported on pre-cast reinforced concrete piles of octagonal cross section, 21 in. across the flats. The piles are arranged in rows of five. The superstructure consists of pre-cast reinforced concrete T-beams, 44 ft. long. Three types of units were used, the heaviest had a weight of 18



Section through bridge over the River Eden on the Carlisle-Kingsmoor LMS railway widening. See No. 2770.

tons each. Work was started in June, 1942, and completed in February, 1943.

This is probably the largest span railway bridge in pre-cast reinforced concrete carried out in this country.

2771

Brickwork

BRICKWORK. E. Lindsay Brailey. Foreword by George Hicks. (Pitman, 1945, 45s.) Comprehensive treatise on the theory and practice of the handicraft of the bricklayer. Manufacture of materials. Measurement of brickwork. 122 illustrations.

The purpose of this book is to teach the bricklayer his craft. Commencing with the manufacture of bricks, including a very useful table of classified information about the types of brick available in this country, the author goes on to the actual practice of bricklaying. The various types of bond are described in great detail with a clarity that dispels the confusion often arising at this point. The same applies to arch construction, where a knowledge of geometry is necessary. New forms of special wall construction, developed during the last twenty years, such as reinforced brickwork, combination of brick and concrete, hollow concrete block walling, etc., are included. Of particular interest are the chapters on fireplaces, on chimneys and on circular work, which require a high degree of skill and craftsmanship. Terracotta and faience are not omitted.

At several places, the insertion of more diagrams would be desirable (e.g., on p. 25, where the description of the hood is difficult to follow). In the chapter on quantities and pricing, the method of measurement is rather confusing. A statement like *feet multiplied by feet produce feet* would require some qualification. The example showing the multiplication of 5 ft. 10 in. by 2 ft. 9 in. is an amusing arithmetical exercise but seems to be a waste of time if done in actual practice.

The book is not intended for the casual reader; both the text and the illustrations need careful study.

2772

Brickwork

BRICK STRUCTURES. HOW TO BUILD THEM. Revised and edited by Ralph P. Stoddard. Eleventh Edition. (McGraw Hill Publishing Co., 10s.) Prac-

tical reference data on materials, design and methods employed in brick construction. Manual on brick masonry, with particular reference to the structural uses of brick in small buildings. Reference tables. 100 illustrations.

This book was first published in 1920 by the Brick Manufacturers' Association of America. Since then edition after edition has been published always revised and brought up-to-date under the direction of the chief engineer of the association. This fact alone speaks for the usefulness of the book.

It gives in simple, almost non-technical language, all the information that is necessary to construct brick buildings successfully. Construction details are given for both solid and hollow walls, with many interesting notes on strong constructions using bricks on edge, (Flemish bond all-Rolok wall).

Although devoted mainly to the proper use of brick in small structures employing the load-bearing wall, the material provided is equally applicable to large buildings as the facing material to steel and concrete. Many useful hints are given on the elimination of such troubles as porous walls, efflorescence, cracking and settlement, on thermal resistance, sound transmission, etc. The last chapter contains coursing tables, a table of weights of brick walls, and a series of tables showing the quantities of brick and mortar in typical forms of brick construction. The pictures are graphical illustrations of constructional details and photographs of buildings. Indoor and outdoor fireplaces are included, as well as walks and garden walls.

LIGHTING

2773

USA Code

LIGHTING CODE OF THE STATE OF MAINE—Extracts and notes on school classrooms by P. E. Weatherbee. (Lighting and Lamps, December, 1945.) Extracts from Code. Example cases.

The example cases are of no interest here, but the main points of the code are worth noting for comparison with English developments.

The requirements are cast in the form of

"average maintained levels" of so many foot-candles; for classrooms the figure is 20, for corridors 5, sewing and art rooms, general, 25 f.c. and local, 70 f.c.

Natural Lighting: No indication is given to indicate how day-lighting is measured or calculated, and the only guide appears to be the suggestion that the wall of the classroom should be completely glazed. Light colours with matt finish are recommended for decoration.

Artificial Lighting: The main point seems to be that they require wiring for 3,000 watts in each classroom distributed at six lighting outlets, or 1,800 watts if fluorescent light is used. They recommend automatic switching controlled by photo-cell to turn the lights on when daylight drops to a too-low level.

In general, it is evident that though they ask for higher foot candle values than the new British regulations, the code is not so well thought out.

2774

Public Buildings

LIGHTING FOR SCHOOLS, HOSPITALS AND PUBLIC BUILDINGS. (Lighting and Lamps, February, 1946, p. 28.) Very brief "brains trust."

This record of a discussion is worth noting only for one thing: evidence that in America they are moving towards dependence on artificial lighting in school classrooms even during daylight hours.

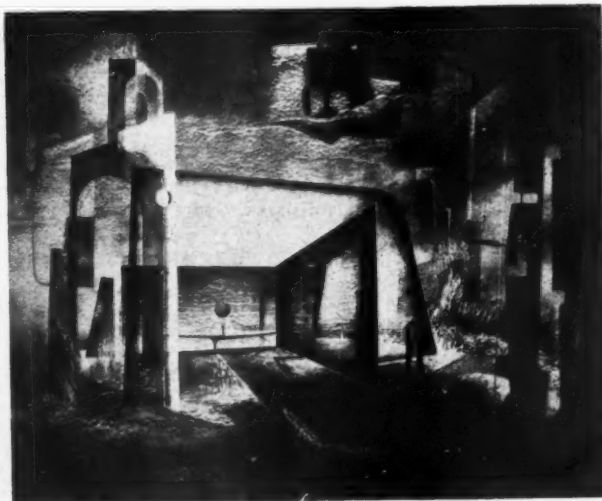
MISCELLANEOUS

2775

Mural Painting

MURAL PAINTING. Hans Feibusch. (Adam and Charles Black, 1946, 21s.) Historical survey of mural painting. Notes on technique. Fifty-eight illustrations.

Although we may never again experience those conditions which made the Sistine frescoes possible, it may be that in the not too distant future architects will become less exclusively preoccupied with utilitarian aspects of building than has been the case in recent years. No architect whose sensibilities extend beyond matters of structural and economic efficiency could fail to derive stimulus from this survey of the background

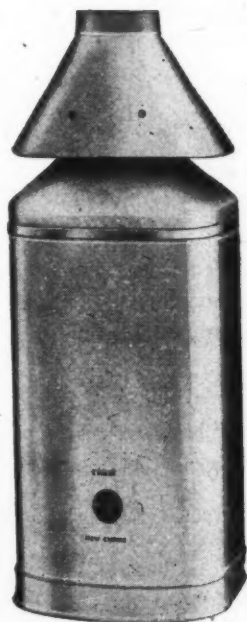


Two illustrations from Mural Painting. Left, *Judith* by Mathäus Günther, on the ceiling of Wilton Church, Tyrol. Right, *Focal Point*, a mural panel by John Tunnard. The two paintings have a surprising amount in common in spite of the superficial contrast. See No. 2775.

An Exclusive Formula

GAS + GEYSER = INSTANT HOT WATER

Only a Gas Geyser gives Instant Hot Water



It is the *only* way to get hot water *instantly*. Moreover, with a EWART Geyser—A Multipoint—bath or sink geyser you get it the cheapest way; the cleanest way; the most efficient way—no stoking and no waste of fuel. Hot water whenever you need it, piping hot *instantly* at any time of the day or night, at the sink, basin or bath by turning a tap. Let EWART plan your hot water supply—and always specify EWART Geysers.

EWART GEYSERS

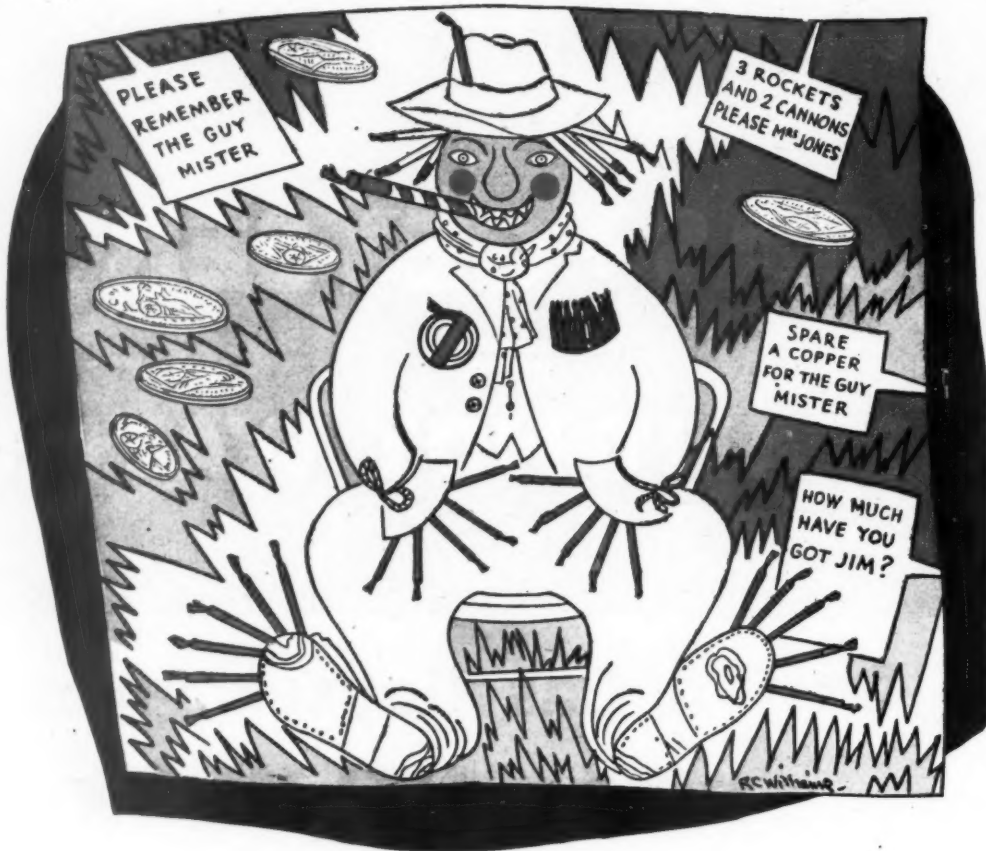
MULTIPOINT • BATH • SINK

EWART & SON, LTD. 169 REGENT ST. W.I. — WORKS: LETCHWORTH, HERTS. ESTD. 1834.

6472

Scottish Agents: JAMES R. THOMSON & CO., Ltd., 10, Blythswood Street, Glasgow, C.2
Northern Ireland Agents: CENTRAL MERCHANTS, Ltd., Upper Queen Street, Belfast.

"—such stuff as dreams are made on"



Please to remember . . . murky nights torn with sudden flashes . . . bangs and cracks . . . pleas for coppers to be turned into still more bangs and whizzes . . . the aristocratic rocket . . . Guy himself, finished off in a final blaze of pyrotechnic glory! All the fun of the fifth.



Aluminium is used in a small way in the manufacture of fireworks. Indeed, it is difficult to touch upon any aspect of life which is not enriched by the employment in some form of this essentially modern metal. Light, strong and ductile, beautiful and durable in all its many guises, Aluminium is a fit medium for the interpretation of adult dreams.

Surprising developments will surely materialise and we, at British Aluminium are fully prepared for them. We KNOW Aluminium and our Development and Technical Service Sections will be happy to place our knowledge and experience at the service of anybody needing advice or information concerning its use in any form for any trade or industry.

Shape the Future with

BRITISH ALUMINIUM

Issued by THE BRITISH ALUMINIUM CO. LTD., SALISBURY HOUSE, LONDON WALL, LONDON, E.C.2

and technique of mural painting. As Sir Charles Reilly observes in his introduction, it appears at exactly the right moment.

Necessarily there are omissions which to oneself appear unforgivable, but the historical scene is interestingly described and the majority of contemporary tendencies are represented.

It is unfortunate that no reproductions in colour have been included since mural painting—as opposed to sculpture—is almost always conceived in terms of colour. Because of this much of the significance of a number of the illustrations is lost.

2776

Housing

HOMES FOR THE PEOPLE. By a Committee of the Association of Building Technicians. (Paul Elek, 1946, 7s. 6d.) Short study of the housing problem written for laymen.

This small book gives an up-to-date survey of the housing problem and deals with its main aspects in exciting and yet sensible manner.

Regarding the question: houses or flats?, the advantages of both are clearly set out with the conclusions that both are suitable for different situations and different types of families. The chapter on planning homes contains a number of good examples for floor spaces varying between 430 and 1,200 sq. ft. The difference between framed buildings and buildings with load bearing walls is considered not only from the structural point of view, but also in its effect on the appearance of the building. The importance of thermal and sound insulation is emphasized. Alternative recommendations are given for suitable finishes on walls and floors in various rooms. Modern services and equipment, including the Garchey system of refuse disposal, are described.

The general tendency of the booklet is to make the public housing conscious. It concludes with the following requirements:—

- (1) The education of the public about building
- (2) Organized public criticism of designs.
- (3) Improved organization in the building industry.
- (4) More Government research on building.
- (5) The revision of obsolete bye-laws.
- (6) The employment of qualified architects.
- (7) The nationalisation of the land.

Bibliography, a good index and illustrations contribute to the usefulness of this publication. It is stimulating reading, not only for laymen.

QUESTIONS

and Answers

THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.1.

2777

Warehouse Pricing

Q What is the rough estimated price per cubic foot of constructing a building of the warehouse class today:—

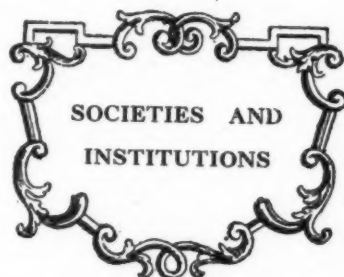
- (a) Reinforced concrete skeleton with brick walls?
- (b) Steel Structure with brick walls?

The building would cover an area of about 14,000 square feet and be three storeys high.

A It is extremely difficult to estimate the price of constructing a building of the warehouse class at the present time. A great deal would depend upon whether contractors in this particular district have reached a saturation point or whether they are still keen to tender for new work.

In our opinion a satisfactory estimate and in particular a comparison of the costs of different forms of construction, could only be achieved by means of a short approximate Bill of Quantities prepared from the drawings, and priced.

As a rough guide we would expect an economical building of this class, whatever the form of construction, to cost between 25s. and 27s. 6d. per foot super.



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.

TPI

A. W. Ashby

At Durham University. Town and Country Planning Summer School organized by the Town Planning Institute. Paper on PLANNING FOR RURAL COMMUNITIES by A. W. Ashby, Agricultural Economics Research Institute, Oxford.

A. W. Ashby: Physical planning is only a part of the current flow of economic and social events and forces, and not even a dominant part. Although it has legal sanctions, and such as may be enforced, this alone does not prove its pre-eminence. Many rigid plans must become encumbrances on economic or social progress. There has been much planning in the past—by individuals, corporations and public authorities; and planning both promotive and restrictive. Some of these plans failed in their objects, others were successful. While the results of some successful plans are still of social value, there are others which we now

regard as encumbrances or worse. Even though we now say we are engaged in social planning, or in planning on behalf of society as a whole, this may aggravate rather than alleviate the conflict between rigid plans and their physical embodiments and economic and social progress. The current planner cannot know what the economic and social forces of the future may be; he cannot know what the scientist, the technician, the industrial organizer, the social idealist and promoter may think and do, or what they will offer society and it will accept. While we must plan, we should plan for the least necessary rigidity and as far as possible for fostering the forces of economic and social progress.

Such considerations are of great importance in the sphere of rural planning. In the 18th and early 19th centuries Enclosure Commissioners, landowners and farmers, fairly definitely planned large parts of agricultural England. They were limited in some respects by parish boundaries which had existed for many centuries (and still exist), by the relics of manorial boundaries, and by the activities of other previous planners, but within their scope perhaps they did their best. There are appreciators of the aesthetic aspects of rural scenery who say that in some parts they could scarcely have done better than they did. While agricultural technicians and promoters would modify this scenery, the aesthetic appreciators would retain it. There is a conflict which appears to be one between materialism and sentimental and aesthetic values, but is, in fact, a conflict between two sets of material, moral, and aesthetic values. The present lay-out produces material and immaterial values. A changed lay-out would also produce both varieties; and its promoters may be justified in saying that it would produce more of both, taken together.

Many of our villages have had basic plans made by or on behalf of feudal lords and later of landlords. The sites of most if not all of them seem to have been fairly deliberately chosen. Those which were not planned were not built without thought or without deliberate selection of general situation and sites of specific buildings. Doubtless the sites of many villages now seem to have been chosen haphazardly, and their buildings dropped accidentally if not perversely. But the siting of villages and of buildings within them was done for reasons which seemed good and sufficient to those who chose the sites. Even if they only "grew," they did so as a result of a complex of forces—geo-physical conditions such as of water-supply, of shelter, of defence, and access to means of communication; agricultural conditions; forces arising from property rights; the technical means and the economic resources available when general siting and building was done; besides some forces more of special character.

Reasons for siting have now changed; technical means of modifying or controlling some geo-physical conditions have vastly increased and improved; means of transport have radically changed, and with these changes needs have increased; agricultural methods have changed to some extent, but perhaps show indications of far greater changes in the near future. Yet property rights and interests may still block the way to changes we would like to make. And it is yet very uncertain, to say the least, whether there will be available economic resources sufficient for promotive or creative as distinct from mainly restrictive physical planning in rural areas.

There are agriculturists, economists and physical planners who would modify and in some areas radically change the lay-out of fields and farms; possibly making radical increases in farm acreages; and in many cases re-equip the newly laid-out holdings with buildings of different character from those now in use. And there

cannot be any doubt that they have sound and adequate agricultural and economic reasons for their suggestions. There have also been suggestions from people concerned with public health and other aspects of social welfare, that many villages require re-siting, with reference to water supplies, sanitation or other health conditions, and with reference to transport and other physical and social amenities.

While in some districts field lay-outs have shown little change since the original enclosure, the grouping of fields into holdings and farms, and the sizes of farms, have shown considerable changes from time to time, and not all these changes have been in the same direction. Similarly, if villages and outlying buildings in some areas are examined, there will be found many houses, some with and others without buildings, formerly farmsteads, but now without any attachment to either land or farming. Since 1850 many villages and hamlets have declined in population and in economic and social importance. During our own time, and in rural areas with a fairly stable total population, this process is still going on; for while the economically and socially weaker villages have been declining, others have been growing and rising in importance.

While these processes of change occur as a result of "natural causes" or of remote economic causes, many people lament and protest but no one takes any effective action to stop them. Indeed, some of them could not be stopped without incurring eventual economic and social wastage and possibly human suffering greater than that caused by the changes themselves. But let anyone suggest that there be brought into play the planner's function of promoting and expediting the economic and social events which cause the changes, and action be taken to promote and expedite the new institutions required, there will be howls of pain and derision.

Rural interests and rural communities may be submissive; they are not generally dominant nor powerful elements in current social and political movements; and consequently they may be regarded as subjects of planning by those who hold current power. On the other hand, there are occasions when agricultural or rural interests excite the sentiments of the public press or of persons who exercise influence in public affairs, when it may be difficult to subject them to principles of sound social planning. There are people who suggest, apparently mainly on grounds of sentiment, that rural scenery should not be changed or that almost every change is a loss; that every disappearance of a small holding is a tragedy; and that people ought to be encouraged, even heavily subsidized, to live in every village and hamlet however economically and socially weak and unsatisfactory some of them may be.

The planner's task is easiest, his plans are least liable to be based on false judgments, when a place or area is showing definite trends of change at the time plans are made. Then it may be necessary to plan for progress and development, at least in a part of the area. The most difficult cases, whether of land, of buildings, or of hamlets or villages, are those in which "retirement" is indicated by the trend of events and forces. There may be instances in which it is necessary to "prop" and preserve in current use an area of land, or a village; in the former case possibly because of urgent temporary need of a form of production, and in the latter because of human breaks and sufferings which would be caused by radical action to remove or speed it on its way to disappearance. Processes of economic or social retirement of land, buildings, villages have nearly always existed; the important question is whether we now have sufficient wisdom to select cases and make plans for retirements and sufficient wisdom and

power of decision to put them into force.

In this sphere there are strong conservative, almost preservative forces of sentiment. Perhaps these are supported by a little thought, but in so far as there is thought it appears to be of a defeatist character. In the course of history many societies have gone through periods in which changes in environmental or internal conditions appeared to press too heavily upon them; periods in which it appeared that society might not emerge from its difficulties but might break up or be submerged. In such periods defeatist philosophies almost inevitably appear. One form of this defeatism is the propagation of the opinion that society has gone too far along its recent lines of change or development; that it cannot make further progress or such as will satisfy its members, and therefore it must turn back in its tracks. This form of defeatism is particularly apt to appear in war and post-war periods. It appeared in this country after the First World War, and it has appeared again recently, somewhat more widely spread and intensive than before. The idea of turning back to a more primitive life, or to earlier and more primitive forms and methods of production is presented as progress, if only progress towards more spiritual and less material ends; and always with the suggestion that the earlier or more primitive forms yielded and will yield greater or deeper human satisfactions.

There are large elements of this type of feeling and thought in the outcry against use of artificial fertilizers, in the fears about large-scale farming and in some demands for more small holdings, and in outcries about reduction of agricultural population. But the process of turning back is also presented as one which is likely to lead to more continuous and certain material satisfactions. Recent and present economic and social organizations, it is suggested, has failed to yield society all the satisfactions which its members desire and has brought them certain definite dissatisfactions and troubles; therefore as this organization has failed and further progress along the same or related lines is bound to fail, the trends of economic and social organization must be reversed. Similar suggestions in respect of some technical methods are even clearer and firmer. But neither man nor society can win spiritual stature or material welfare by running away from difficulties. Turning back is an acceptance of failure or defeat; but bafflement accompanied by new thought and endeavour may lead to progress. The society which fails to make progress becomes either static and stagnant or decadent. At present there seems no possibility of static economic and social organization in rural England. While there may be a choice between progress and decay, most of the signs and trends are of progress. But progress will involve some important economic and social retirements with which physical planners must be concerned.

In rural England the past is always with us, sometimes supporting, sometimes oppressing us. And in the sphere of rural philosophy there are people who think like Mrs. Hilbery—"After all what is the present? Half of it is the past, and the better half, too, I should say."* There is harking back not only as regards some technical methods and economic institutions but to what is supposed to have been the village community. With better and more frequent facilities for travel, more leisure, more material resources, and perhaps as a result of more and better education, new and extended social groupings have occurred. When rural inhabitants, whether of villages or the open country, seek many of their satisfactions outside the village, decay of village life is assumed. Therefore, the village community must be revived. A modicum of neighbourly relationships, even of "good neighbourliness," is essential to satisfactory living in any neighbourhood group

*Virginia Woolf: *Night and Day*.

such as a village population. Elements of communal feeling and endeavour are also necessary. The strange feature of the situation is, however, that the more well-to-do families in villages always sought extra-village relationships and social groupings, and the "decay of the village community" was not thought of until the lower orders became able and began to follow their example.

The search for the village or the rural community is an attempt to revive previous conditions, old values. In part it is a revolt from new conditions of life, new interests, new groupings. In some respects it is any effort to rediscover and re-vitalize old controls as well as old values. Examination of past and present groupings of the rural population of Great Britain, even parts of England, will show that rural communities have taken many forms, and that the "village" community has never been universal. And close examination of the history of rural and village communities will show that they have rarely been free from differences in economic, religious and other interests and, consequently, from economic and social conflicts. Rural social groupings of the future will be based partly on the village or the "neighbourhood," partly on wider area bases such as those of the market or country town (sometimes on a complex of these towns and their economic and social hinterlands), and partly on an extremely wide variety of individual and family interests. The geographical range of interest groupings will depend, as they have always done, on the nature of the interest concerned, the material resources and leisure of individuals, and means of travel.

While it appears quite certain that the importance of interest groupings in rural communities will increase, this does not necessarily imply a decline of social life within the neighbourhood group; it may and is more likely to imply a general increase in social activities—an increase in inter-individual and inter-family communications and associations.

Neighbourhood groups will always require certain primary social institutions, such as schools, churches and more common meeting-places and, consequently, appropriate physical facilities for these institutions. Some village schools will illustrate cases of social retirement and there are village churches and chapels which have suffered much the same process as these schools, but, unfortunately, without the same formal and only rarely with the same effective transfer of functions and subjects to stronger fellow institutions within the same locality. If the village community or the neighbourhood group is to be strengthened, or re-established, there are many cases in which a village hall or club—a common, non-sectarian, non-party meeting place—will be a primary necessity; and others in which a more adequate of improved building is required. There are still many villages in which the need of a recreation ground, adequate in space, position, and maintenance has never been squarely faced and met. It is scarcely possible to build a "village community" in a village in which those who wish to play have no space in which they can play freely and without reference to the needs or comfort of any farmer's cows.

Publications Received

Mural Painting. Hans Feibusch. (A. and C. Black, £1 1s. 0d.)

The Effects of the Atomic Bombs at Hiroshima and Nagasaki. (HMSO, 1s. 0d.)

Road Communications in Northern Ireland. (HMSO, 1s. 0d.)

English City. (J. S. Fry & Sons, 1s. 0d.)

nts of
e also
situa-
l-to-do
extra-
pings,
unity"
orders
their

rural
vious
revolt
terests,
is any
d con-
nation
e rural
arts of
unities
at the
n uni-
ne his-
es will
e from
other
nomic
group-
tly on
partly
of the
on a
nomic
on an
al and
nge of
they
of the
sources
ans of

he im-
l com-
neces-
within
and is
ease in
inter-
cations

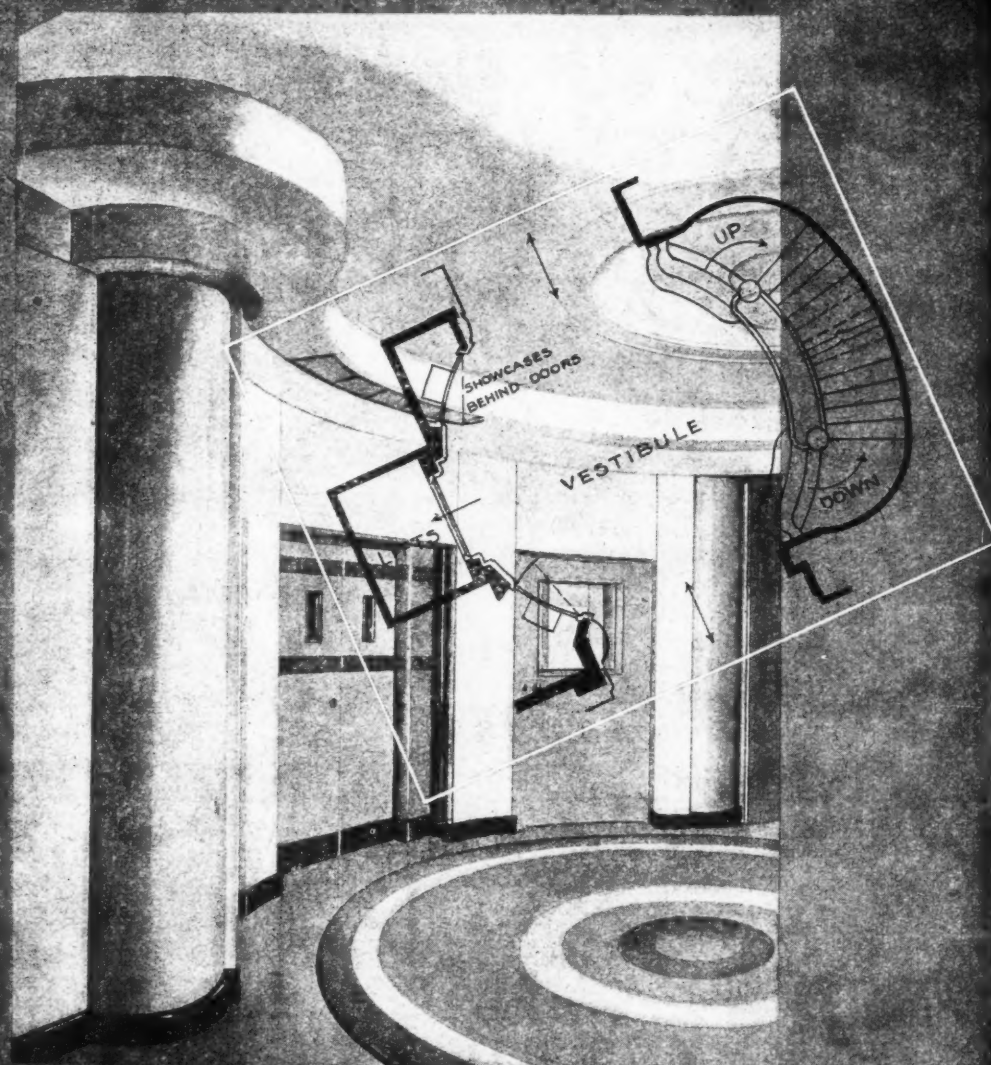
require
uch as
meet-
opriate
Some
social
es and
e same
nately.
rarely
ctions
tutions
e com-
s to be
re are
or club
meet-
y; and
of im-
re still
recrea-
osition,
quarely
ible to
village
ave no
ly and
omfort

ns
d

A. and

Hiro-
d.)
n Ire-

Od.)



A PLAN FOR TOMORROW-TODAY

The ability to visualise the future trends in design is vested in few. It may come from inspiration—but more often it is the result of hard work and long experience. If testimony be needed, of our ability to assist you to plan for the future, it will be found in the many outstanding designs for the reconstruction of shops and commercial premises we have achieved in the past.

GEORGE PARNALL & CO^{LTD}

4 BEDFORD SQUARE, LONDON, W.C.1.

MANY ARCHITECTS WHO ARE NOW RETURNING to practice from their wartime jobs are anxious to obtain the latest information regarding a number of building products and services. We print the form below in response to a number of requests . . . it will save you time and trouble. All you have to do is to fill in the names of the manufacturers in whose products you are interested and post the form to "The Architects' Journal"—we will do the rest.

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

.....

Please ask the manufacturers to send further particulars to:—

NAME

ADDRESS

.....

.....

A.J. 17 10,46

A Plan for Todmorden. Thomas Sharp. (Todmorden Borough Council, 2s. 0d.)
Homes by the Million. Hugh Casson. (Penguin Books, 2s. 0d.)
Fire Protection Book, 1946/7. (Lomax, Erskine, 7s. 6d.)
Puritan Architecture. Martin S. Briggs. (Butterworth Press, 8s. 6d.)
London Building Law. H. R. Chanter. (Batsford, £1 1s. 0d.)
Building Specifications. T. Sumner Smith. (Hutchinsons Scientific and Technical Publications, 16s. 0d.)
First Annual Report, 1945/6. Northern Ireland Housing Trust. (HMSO, 1s. 6d.)
Successful Canteen Management. J. D. Mitchell. (Practical Press.)
Survey Before Plan, No. 2: The Hub of the House. E. M. Willis. (Lund Humphries for APRR, 6s. 0d.)
Survey Before Plan, No. 3: Wealth from Waste. N. George. (Lund Humphries for APRR, 6s. 0d.)
Public Housing Designs. (National Housing Agency, Federal Public Housing Authority, \$1.25.)
Commercial Model Making. P. R. Wickhams. (Vawser & Wiles, 5s. 0d.)
Catalogue of Films of General Scientific Interest Available in Great Britain. Compiled by the Scientific Film Association. (Association of Special Libraries and Information Bureaux, 5s. 3d.)
Electricity in the Building Industry. F. C. Orchard. (Chapman & Hall, 15s. 0d.)

Announcements

Uni-Seco Ltd. will be pleased to receive catalogues and information relating to building materials, methods, services and equipment. All material should be addressed to: The Technical Librarian and Information Officer, Uni-Seco Limited, 25, Upper Brook St., Park Lane, London, W.1.

The Minister of Health, Mr. Aneurin Bevan, has approved the appointment of Mr. H. Symon to be Under-Secretary (Housing) in the Ministry, and of Miss Enid Russell-Smith to be an additional Under-Secretary, Health Services Division. Mr. Symon succeeds Miss Evelyn Sharp, who has been appointed Deputy Secretary of the Ministry of Town and Country Planning. Mr. Vernon Aldridge, F.R.I.B.A., of Whitwell Road, Ventnor, Isle of Wight, has moved his central office to 35a, St. James Street, Newport, Isle of Wight. This is the address to which current trade literature should be sent. His Ventnor address now becomes a branch office.

Mr. Stuart Bentley, F.R.I.B.A., A.N.T.P.I., has been appointed by Dunlop as their Deputy Architect. Associated with many important architectural and engineering undertakings, he was senior assistant to Sir Arnold Thornley on the design of the Northern Ireland Parliament buildings, senior assistant to Mr. Herbert Rowse on the construction of the Mersey Tunnel, senior assistant to the Liverpool City architect and chief architect to the Southampton Corporation. During the war he served in the Royal Engineers, including four years in India, where he was Staff Major R. E. with the chief engineer of factories, Calcutta.

Messrs. W. J. Martin and J. T. Martin have set up in partnership as Quantity Surveyors in Eastbourne, Sussex, under the title of Martin & Martin. Pending war damage repairs to their offices at 10, Gildredge Road, Eastbourne, communications should be addressed to Ailsa Craig, Mill Gap Road, Eastbourne. (Tel. 3119.) Trade catalogues would be welcomed.

The offices of the Iron and Steel Board have been established in Bush House, Strand, W.C.2. All Press inquiries regarding the Board should be referred to the Chief Information Officer's Department, Ministry of Supply, Shell Mex House, W.C.2.

The bronze heraldic lion for Norwich City Hall.
 Sculptor: Alfred Hardiman, A.R.A.



MORRIS SINGER COMPANY

Bronze Founders for over 100 years

FERRY LANE WORKS • WALTHAMSTOW • LONDON • E • 17 • LARKSWOOD 1055

There's no interference

HERE!



Every flat in Cranmer Court can have perfect listening by Rediffusion

WHERE there has been complete co-operation between radio engineer and architect, there you will find perfect listening! The radio engineer can arrange direct reception by private wire from the studio to the home, and the architect can design and build into his completed plans the very simple equipment needed for direct wire listening.

At Cranmer Court, one of London's most modern blocks of luxury flats, radio reception is already available by this ideal means. At the touch of a switch in any flat in the building,

perfect listening to radio programmes is available by the Rediffusion System.

Perfect reproduction is assured, because the programmes come by direct wire from the B.B.C. studio. The loudspeaker, volume control and programme selection switch are mounted in the wall in one tastefully designed unit with concealed wiring—the result of careful planning.

Architects who are interested in the details of this service should contact our London office during the early stages of planning to ensure full co-operation.

B.R.S. REDIFFUSION

operates in the following towns:

BANGOR (Co. DOWN), BARGOED, BARROW, BLACKPOOL, BRISTOL, BROADSTAIRS, DARLINGTON, EXETER, FLEETWOOD, GATESHEAD, GOSFORTH, HULL, KENDAL, LANCASTER, LONDON*, MAIDSTONE, MARGATE, MERTHYR, MORECAMBE, NEWCASTLE, NEWPORT (MON.), NORTH AND SOUTH SHIELDS, NOTTINGHAM, PLYMOUTH, PONTYFRID, RAMSGATE, RHONDDA VALLEY, ROCHDALE, ROTHERHAM, ST. HELENS, STRET福德, SUNDERLAND, SWANSEA, WALLASEY, WALLSEND, WHITLEY BAY, WOLVERHAMPTON, and also in MALTA and TRINIDAD.

* Special service to flats and hotels.

BROADCAST RELAY SERVICE LTD., CARLTON HOUSE, REGENT STREET, LONDON, S.W.1. • WHITEHALL 0221



Poised for Service!

Eagerly awaiting the relaxation of controls



Be prepared and specify

ARMOUR BRAND



PAINTS & ENAMELS

Armourdor, Armourmatt, Armourset, Armoursheen.

FERRODOR

Vitros

Limited Supplies for PRIORITY WORK ONLY

Griffiths Bros & Co. LONDON, LTD.

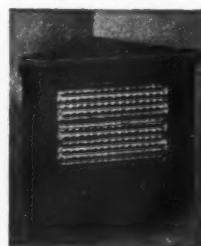
MACKS ROAD, BERMONDSEY, LONDON, S.E.16

Telephone: BERMondsey 1151
Telegrams: AQUOL, PHONE, LONDON.

ELECTRIC Heating and Cooking FOR

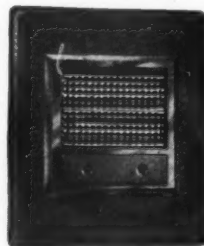
THE MODERN HOME

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



New Corner Fireplace

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



Wall Panel Fire

'Belling' Electric Domestic Cooking Equipment is, of course, famous for its high efficiency.

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

You can't beat a

Belling

Belling & Co., Ltd., Bridge Works, Enfield, Middlesex.
Telephone: Howard 1212

C.R.C. 521

EASY AS ABC FIXING FOR BUILDING BOARDS

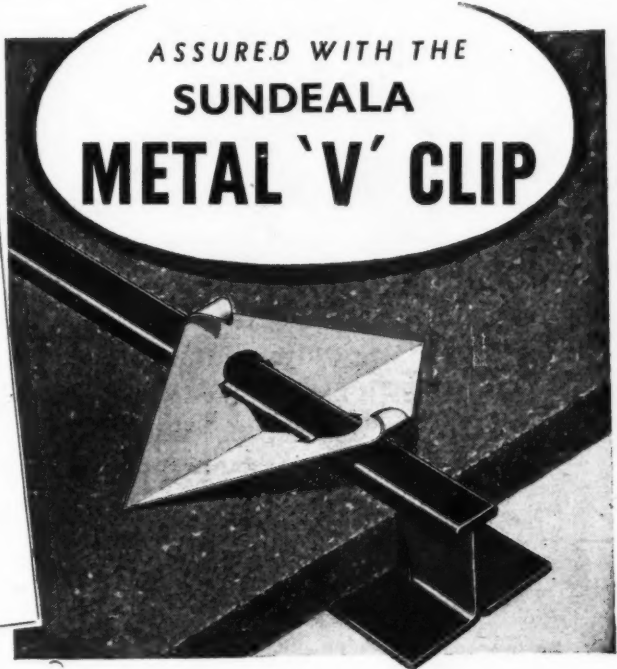
Comprising a flanged head T bar on which are threaded slotted "V" section steel clips, this SUNDEALA fixing method is acknowledged to be the simplest and most efficient yet devised. Three operations only are necessary:

- A. Slide "V" clips on T bar.
- B. Fix T bar to purlins by means of special slotted hangers provided.
- C. Insert board under clips and the job is done!

Suitable for any type or thickness of interior wall or ceiling board. Full details and information sheet on request.



ASSURED WITH THE
SUNDEALA
METAL 'V' CLIP



SUNDEALA BOARD CO. LTD., ALDWYCH HOUSE, W.C.2. Phone: CHAncery 8159
Works: Sunbury-on-Thames, Middx.

Members of Building Board Manufacturers' Association

Eliminate BREAKAGES

THE 'SPLENDID' WAY



The 'Splendid' is a complete unit in itself and guarantees clean crocks by physically brushing them with clogless brushes while they are immersed in hot water and rinsing them in a separate compartment in clean water.

All 'Splendid' units are soundly constructed in either Stainless Steel or Hardwood, and require a minimum of attention. The number of well-known catering establishments who use the 'Splendid' machines will bear testimony to their dependability and trouble-free service. All enquiries are welcome.



FINGER TIP CONTROL

A STAINES

"SPLENDID" CROCKERY
WASHERS
PATENT

PRODUCT

STAINES KITCHEN EQUIPMENT CO., LTD.

94 VICTORIA STREET,
LONDON S.W.1. Vic.9772

For Lasting Service and Satisfaction



Manufacturers of

CONDUIT FITTINGS
INDUSTRIAL & WATER-TIGHT WELL-GLASS FITTINGS & ACCESSORIES
DOMESTIC LIGHTING
DOMESTIC ELECTRICAL APPLIANCES
BATTERY CHARGING EQUIPMENT
HAND LAMPS OF ALL DESCRIPTIONS

ELECTRICAL & GENERAL ACCESSORIES LTD.

ELECTRICAL & GENERAL ACCESSORIES (Leicester) LTD.
 NEWHALL STREET, BIRMINGHAM 3, ENGLAND.

Biro

The New Writing Instrument

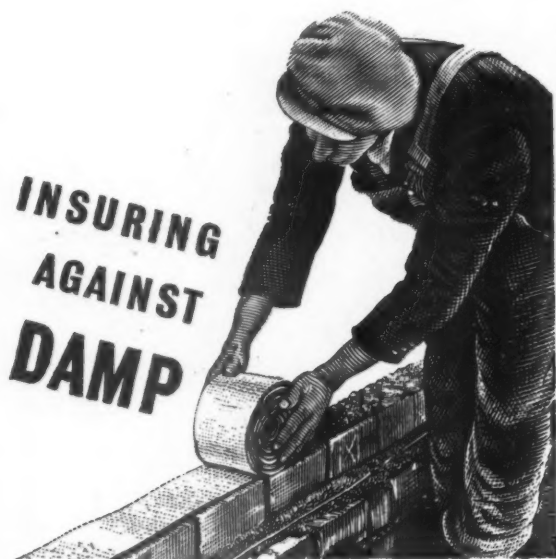
- Writes an average of 200,000 words without refilling.
- Writes on a ball-bearing with a velvet touch and a smooth gliding action.
- The ink dries as you write.
- Does not smudge even on wet paper
- Makes at least six perfect carbon copies.
- A boon to left-handed writers
- Does not leak at any altitude.

Retail Price: 55/- including tax
 Place your order with local retailers.

All Trade Enquiries to
 Sole Distributors:
SIR HENRY LUNN LTD.,
 (Commercial Dept.),
 74 Earl's Court Road,
 London, W.8.

Made in England by:
THE MILES MARTIN PEN CO. LTD.,

Biro
 REFILL SERVICE
 'Biro' Service retailers will fit a refill unit and service your 'Biro' for an inclusive charge of five shillings.

AQUALITE
BITUMEN DAMPCOURSE

WILLIAM BRIGGS & SONS, LTD.,
DUNDEE AND LONDON
 Branches throughout the Country

FABRICATED SHEET METAL WORK

We specialise in
SHEET METAL WORK
 and
CONSTRUCTIONAL STEELWORK
 of every description

Including:—

Transformer, Fuel Oil, Galvanised and Expansion Tanks, Ducting, screened and unscreened. Sheet Metal Work for Dust, Refuse, Fume and Vapour extraction plants. Welded Condensers, Scrubbers, Piping, etc. Calorifiers, Hoppers, Chutes, Pressure Vessels, Troughs, Cowling, etc.

ARKINSTALL
 BROTHERS LIMITED

BATTERY WORKS · COVENTRY ST · BIRMINGHAM 5





FISHER & LUDLOW are *pressing* for more homes!

Fisher & Ludlow, the pressing specialists, have lost no time in adapting their production facilities to assist in meeting the National demand for more homes.

When the problem of mass-produced equipment in the bathroom and kitchen arises in your plans for pre-fabricated or permanent housing, consult "Fand L." There are 23 modern factories in the Midlands ready to serve you.

FISHER & LUDLOW LTD

HEAD OFFICE: REA STREET, BIRMINGHAM 5.
LONDON OFFICE: 110, STRAND, W. G. 2.



PARAGON LANTERN LIGHTS

Maximum strength, minimum obscuration of light, extreme durability and attractive neatness of design are four outstanding characteristics of "Paragon" Lantern Lights and Skylights, whether of standard pattern (24 sizes), or purpose-made to suit any curb-trimming. They are manufactured outright by us at our Deptford Works from materials of pre-war quality. All opening sashes are double-weathered and hung on brass cup-pivots. The steel glazing bars are, of course, of the well-known "Paragon" type and standard, being of completely lead-clothed steel.

Our Brochure "A" will be sent you on request.

PARAGON GLAZING CO. LTD

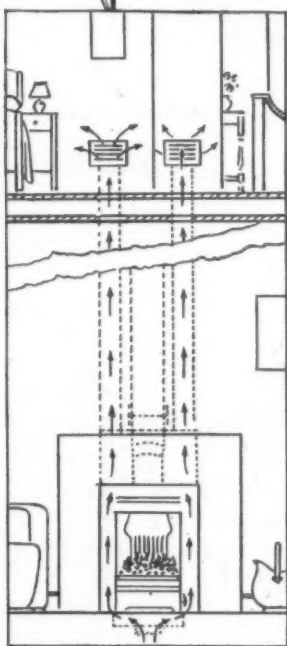
1 • VICTORIA ST. • WESTMINSTER • S.W.1

Telephone: ABBey 2348.
Pte. Br. Exch.

Telegrams: "Eclairage, Sowest," London



Hot Head, Cold FEET...



Consider poor Mister Brown, brooding over his fire until his head is hot and the mid-night hour is past. For Mister Brown has cold feet about going to bed. No wonder! They will be colder still when he finally clambers under those shivery sheets.

We are having a word with Mister Brown—in our advertisements in "Country Life", "The Listener", "The Economist" etc. We are telling him to instal an Eagle Convector Grate in his living room. It will give him a cheerful blaze there, and—at the same time, for the same quantity of fuel—send a flow of warm air up to his bedroom and landings. No more cold feet for Mister Brown!

We are telling Mister Brown, too, to consult you about this very civilised development in warming the cockles of these rough island hearts. May we send you technical details?

EAGLE Convector Grate

Product of Radiation Ltd.

EAGLE RANGE & GRATE CO. LTD., ASTON, BIRMINGHAM, 6
LONDON SHOWROOMS - - - 7, STRATFORD PLACE, W.1



THE TRADE MARK
WHICH STANDS FOR THE
BEST IN

FLOORS

(ACID & NON-ACID)

AND

WALL SURFACES

OF ALL TYPES TO SUIT
EVERY CONDITION

21 YEARS SPECIALISATION

GRANOLITHIC:	All Types
DIAMONITE:	Hardened grano
PRODORDUR MACHINE FACED FLOOR TILES:	Coloured non-slip hard-wearing
FERROGRAN STEEL FACED FLOOR FLAGS:	Hydraulically pressed surface heavily impreg- nated with metal. For heavy duty
CONSOL STEEL ANCHOR FLOOR PLATES:	10 gauge steel. For very heavy duty
also—	
COLOURED ASPHALT	STANDARD
ASPHALT FLOORING	WOOD BLOCK
FLOORING	ACID-PROOF FLOORS

HEAD OFFICE AND WORKS: WEDNESBURY
Telephone: 0284 (5 lines)

London Office: Artillery House, Artillery Row, S.W.1
Telephone: 1547-8 Abbey

FUTURE REFERENCE..



Also Specialists in
RAILINGS
GATES
METAL WINDOWS
WELDED VESSELS
TANKS
CASTINGS
RAINWATER
GOODS
etc.

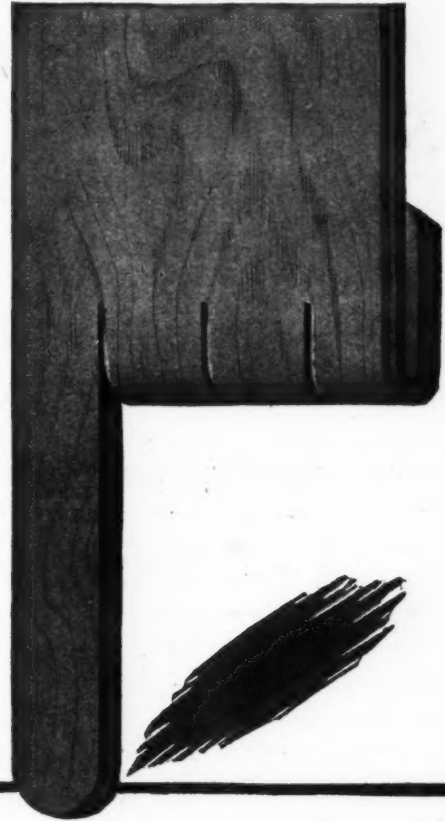
**STRUCTURAL
STEELWORK**

TAKE ADVANTAGE OF EXPERIENCE
WHEN PLANNING FOR THE FUTURE.
Our specialists are at your service.

**THOMAS BLACKBURN
& SONS LTD.**

INCORPORATING RUSSELL EDWARDS & CO. AND STEVENSON'S
Building engineers & nonfounders

PRESTON · LANCs



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

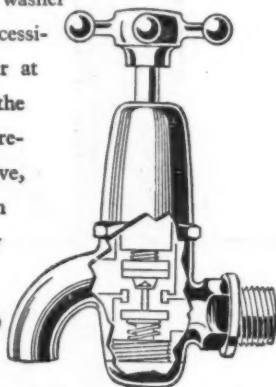
VENESTA LIMITED · Vintry House · Queen Street Place · E.C.4
Telephone: Central 3060

For the new building

A NEW TAP

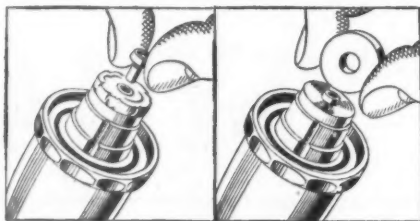
automatically turns off water while washer is being changed

Architect and builder will recognise in the *Shaff Tap* a practical and worth-while development in water-tap design. For changing a washer of a *Shaff Tap* does not necessitate turning off the water at the main or stop-tap. As the head is unscrewed and removed the secondary valve, located in the bottom housing, automatically stops the flow.



WASHER CHANGED IN 30 SECONDS!

Another time and trouble-saving feature is the absence of a nut to hold the washer in position. A spindle pin, easy to withdraw and re-insert, is substituted. In less than a minute a novice can change the washer on a *Shaff Tap*.



Shaff Taps

Pillar, Mixer, Bib and Stop-tap Types

Approved by the Metropolitan and other Water Boards and manufactured under British Standards Spec. 1010.

Write for fully descriptive leaflet to:—

JAMES SHAFFER LTD
82-106 Cricklewood Lane, N.W.2

Tele.: Gladstone 3311/9. Grams.: "Shaff, Crickle, Londond" an at South Shields.

See this tap at the "BRITAIN CAN MAKE IT" Exhibition,

"HIGHLOW" IMMERSION HEATERS

"CHARLTON" ELECTRIC STORAGE WATER HEATERS

Introducing THE B.N.E. NEWS SERVICE

British National Electrics Ltd. is now the domestic appliances section of Johnson and Phillips Ltd. and will combine the manufacturing experience and resources of both companies.

The B.N.E. factory at Newarthill is large; the combined production technique and experience are great; the collaboration will give you better products in larger quantities.

Like our production, our advertising at the moment is not equal to our demand, but we will use what "space" we can obtain to keep you informed of our progress at Newarthill through the B.N.E. News Service.



BRITISH NATIONAL ELECTRICS LTD.

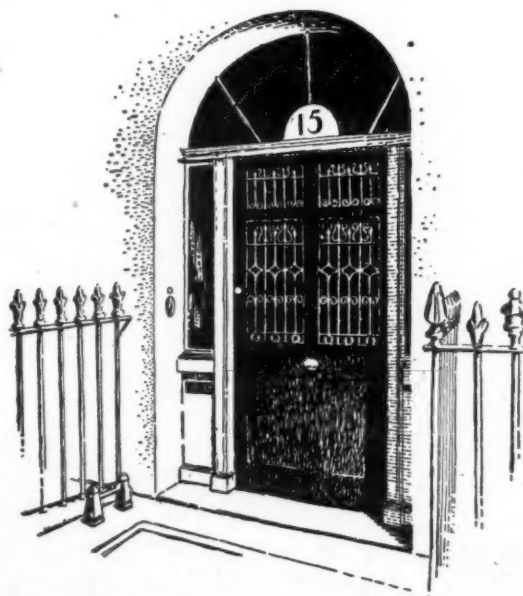
(Incorporating
Archibald Low Electrics Ltd. and J. P. Tubular Heater Co. Ltd.)

The Domestic Appliances Section of
JOHNSON & PHILLIPS LTD.

NEWARTHILL · MOTHERWELL · SCOTLAND

"JP" SPACE HEATING EQUIPMENT

"BRITISH NATIONAL" ELECTRIC COOKERS & FIRES



This interesting old door leads to the offices of

LLOYD BOARDS LTD

15 PORTMAN ST · LONDON · W · 1

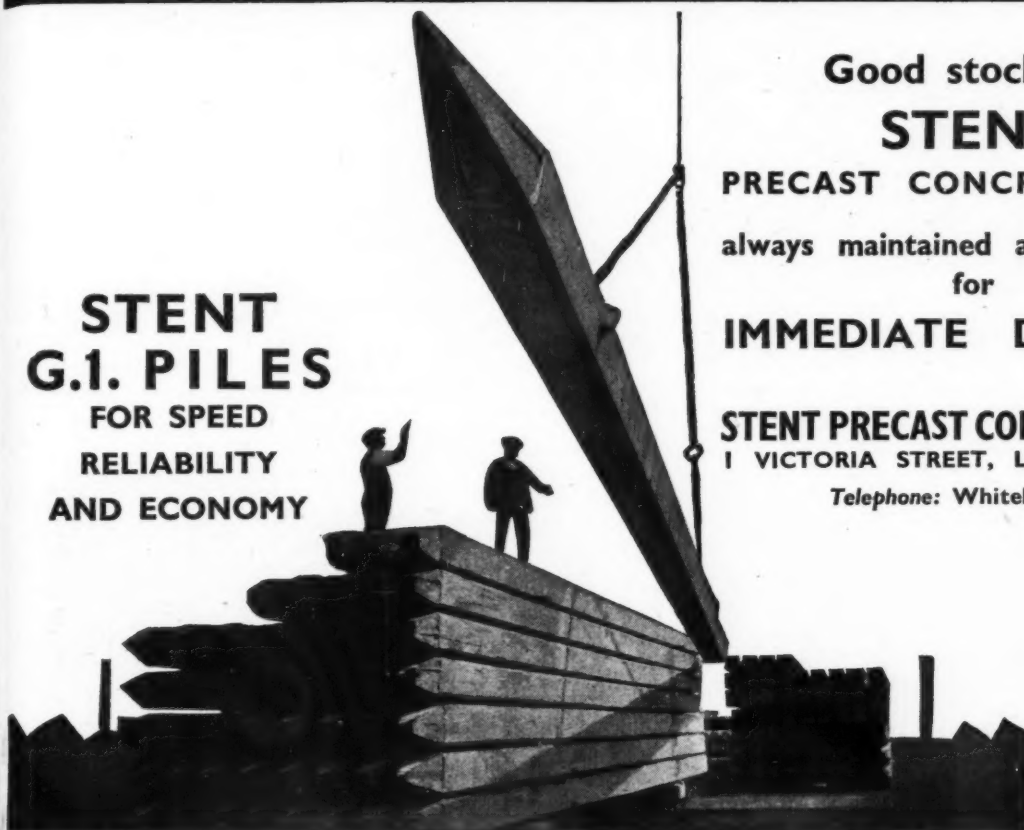
**MEMBERS OF THE BUILDING BOARD
MANUFACTURERS' ASSOCIATION**



**STENT
G.I. PILES**
FOR SPEED
RELIABILITY
AND ECONOMY

Good stocks of
STENT
PRECAST CONCRETE PILES
always maintained at our works
for
IMMEDIATE DELIVERY

STENT PRECAST CONCRETE LTD.
1 VICTORIA STREET, LONDON, S.W.1
Telephone: Whitehall 2573.



RP-L/264

SMITH AND JONES ARE TALKING

'ROT'



Not nonsense, mark you, but fungal attack. For they both work with wood and the mere mention of fungus or termite puts them on common ground. But today they talk of rot, not with awe, but as they might of an enemy defeated or an aching tooth extracted. They have both turned to DRYMOL Wood Preservative. Drymol is freely available in green, black, brown and colourless — each with its own characteristics and uses. Drymol Colourless is suitable for inside and outside work, is odourless and on inside work will take any of the usual finishes. It penetrates deeply and the treated surface can be painted, varnished or polished, and the preservative effect is as near permanent as modern technology can make it.

We should like to send you full details of the complete range.

DRYMOL
WOOD PRESERVATIVE

*Drynamels Specialist Service
gives you Tomorrow's Finish—Today*

DRYNAMELS LTD., SHAFTMOOR LANE, HALL GREEN, BIRMINGHAM 28



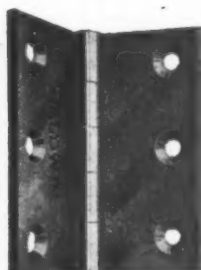
NEW AND INTERESTING PENCIL TECHNIQUES

are demonstrated in a series of 10 pencil perspectives by R. Myerscough-Walker, lithographic reproductions and descriptions of which may be obtained for 2/6 the set, post free, from:

EAGLE PENCIL COMPANY, LONDON, N.17



EP3



*One of the
strong silent type*

... Perfectly made, quick and free in action on the famous BALDWIN polished chilled iron joint and enclosed steel pin. Always ask for them by name.

BALDWIN PRECISION MADE cast iron butt hinges

Sole Manufacturers: BALDWIN, SON & CO. LTD., Stourport-on-Severn

M-W.49

Using Steam or Hot Water



AIR HEATERS

THE SPIRAL TUBE & COMPONENTS CO., LTD.
Osmaston Park Road, Derby
London Office: Honeypot Lane, Stanmore, Middlesex.



Modern SANITARY REFINEMENT

Externally, the smooth lines of the FORDHAM, with its superfine glass-enamel finish, its concealed brackets and its unobtrusive chain lever, are in accord with contemporary taste of the highest order; while internally, its hidden valves provide the quiet efficiency for which it is well known. We shall be happy to send you full details and prices on request.

The
Fordham
seamless steel
FLUSHING CISTERN

FORDHAM PRESSINGS LIMITED, DUDLEY ROAD,
WOLVERHAMPTON. Phone: Wolverhampton 23861



BELLS and TOWER CLOCKS



RINGING PEALS · CHIMES · CARILLONS
PUBLIC CLOCKS of all types

GILLETT & JOHNSTON LTD

BELL FOUNDERS
CROYDON, SURREY

Tel.: Thornton Heath 3221 (5 lines)

The *SPEEDILY ERECTED* flue

The TRUE-FLUE patented method of constructing domestic flues of correct design with the minimum of labour.
The chimney breasts may be constructed with original form of concrete block which can be speedily erected independently of the remainder of the building structure; alternatively our system may be incorporated in the usual brick construction.

"TRUE FLUE"
sure is a
TIMESAVER!



The Lintel and "gather-over" immediately above the fireplace are designed as one streamlined unit which eliminates the usual reinforced lintel or arch and ensures a trouble-free flue. This unit can be used with obvious advantages with any type of construction.

For full details write for our descriptive booklet.



TRUE FLUE Ltd. CARLISLE HOUSE, 8 SOUTHAMPTON ROW, LONDON, W.C.1. Phone: CHANCERY 8133

Up to
the
minute-



"BIG BEN" is always up to the minute, never falling a step behind or getting one in front. Unlike Big Ben, we at SANDERS—WEDNESBURY, endeavour to be always a step in front, but the abnormal conditions of today unfortunately will not permit us to keep pace with the demand for our products. Shortage of supplies, restrictions, etc., are gradually being overcome—meanwhile, modifications to existing ranges and entirely new designs are being planned to keep Sanders switchgear, fusegear, sockets, plugs, etc., 'up to the minute.'

WM. SANDERS & CO. (WEDNESBURY) LTD., WEDNESBURY, STAFFS.



'BULLDOG'
TIMBER CONNECTORS
ARE SIMPLE TO
USE

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

2 The members are lifted apart and the toothed connectors are placed between the adjacent faces of the members to be connected.

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

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

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

In use, these connectors are embedded firmly between the lapped members, thus greatly increasing the small bearing area provided by a bolt alone, and enabling the stresses to be distributed over practically the entire cross section of the timbers involved.

'Bulldog' connectors put timber construction on a sound engineering basis and the consequent increase in efficiency results in an amazing saving of timber, time and material.

Full details and technical advice are available to everyone interested.



"BULLDOG"
TIMBER CONNECTORS

W. F. HOLLWAY & BROTHER, LIMITED,
42, GRAFTON STREET, LIVERPOOL 2.

★ Advantages of Copper

IN BOILERS
CYLINDERS
AND TANKS

★ DOES NOT RUST

★ RESISTS CORROSION

★ BETTER HEAT CONDUCTOR

★ ALMOST EVERLASTING



Architects, Builders and the public like are rapidly becoming more copper-minded when considering Boilers, Cylinders and Tanks for domestic use.

Whilst the cost of copper is a little more in the initial stage, this is negligible when compared with outstanding advantages over Iron and Steel.

We have been specialising in the manufacture of domestic water-heating apparatus for over fifty years and have been privileged throughout this time to supply a large majority of Plumbers and Builders' Merchants in Great Britain.

Our technical staff and research departments are prepared to help you with domestic water-heating problems—send them to us.

RANGE BOILERS LTD.,
and subsidiary companies

STALYBRIDGE CHES.

THE EMPIRE'S LARGEST MANUFACTURERS OF COPPER BOILERS,
COPPER CYLINDERS, CALORIFIERS, WATER BOILERS, TANKS AND
TUBE WORK

FROM FLOORS TO ROOF



The SMITH TWO-WAY reinforced fireproof floor can be employed immediately for any flooring or roofing requirement. It is constructed with standardised pre-cast hollow concrete blocks. The employment of patent telescopic centers permits the immediate use of the floor with the additional advantage of their removal in the minimum of time.

Limited quantities of TRIANCO TELESCOPIC CENTERS are now available for use in connection with suspended floors of all types. Write or phone without delay.

SMITH'S FIREPROOF FLOORS

SMITH'S FIREPROOF FLOORS LTD. (Dept. A)
IMBER COURT, EAST MOLESEY, SURREY. 'Phone Emberbrook 3300 (4 lines)

VULCANITE
FLAT ROOFING

*for the
Modern Cinema*

Is essential because it is water-tight, practically imperishable and minimises disturbing noises. It offers the greatest possible resistance to the spread of fire, as it hermetically seals the roof surface, and its excellent wearing qualities eliminate maintenance charges.

3/4" BITU-MAC FINISH
VULCANITE COMPOUND
SHEETING
VULCANITE COMPOUND
SHEETING
VULCANITE COMPOUND
SHEETING
WOOD OR CONCRETE

Original patentees of Bituminous built up roofs
VULCANITE
TRIDENT WORKS · WIGAN
GLASGOW · LONDON · BELFAST

CLASSIFIED ADVERTISEMENTS

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

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

Public and Official Announcements

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

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.: Blooms 5615. 994

LONDON COUNTY COUNCIL.

Applications are invited for the following positions:—

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:—

(a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL) AND JUNIOR DRAWING OFFICE ASSISTANTS. Required for:—

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.

(d) Assistants to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.

(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 65s. a week, plus cost-of-living addition.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for, modern hot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £400 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

Ex-service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. 947

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited by 4th November, 1946, for the appointment of Architectural Assistant, in Grade A.P.T. VI, at a salary of £535, rising to £600 per annum, plus cost-of-living bonus, at present 259 19s. 3d.

Application forms and particulars may be obtained from the Borough Surveyor, Town Hall, Wallasey, on receipt of a stamped addressed envelope.

EMRYS EVANS,
Town Clerk. 567

BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Third-Class Architectural Assistant, in the Borough Engineer and Surveyor's Department.

The salary attaching to the post will be Administrative, Professional and Technical, Grade I, of the National Whitley Council Scale for the London area, namely £380 per annum, by £15's to £425 per annum, plus cost-of-living bonus. Candidates must have passed the Intermediate Examination of the Royal Institute of British Architects, or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a Local Authority.

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

Applications, together with copies of not more than three recent testimonials, should be forwarded to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Wednesday, 30th October, 1946.

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

W. T. PIRIE,

Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6.

28th September, 1946.

583

MONMOUTHSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts, in the County Architect's Department.

(A) SIX PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

(B) ONE ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division, as above.

(C) TWO ASSISTANT QUANTITY SURVEYORS, at a salary in accordance with Grade IV of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates for (a) must have a knowledge of design and construction, particularly in relation to schools, public buildings, police stations, etc., and must be Associate Members of the Royal Institute of British Architects, and for (b) and (c) should be members of the Surveyors' Institution (Quantities Section), and should have wide experience in preparing estimates and bills of quantities, and in dealing with contractors' accounts, etc.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to the Regulations of the Council in force from time to time governing their Administrative, Technical and Clerical Staff, and will be determinable by one month's notice on either side. The successful candidates will be required to pass a medical examination.

Forms of application and conditions of service can be obtained from the undersigned. Applications, stating age, experience and qualifications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than the first post on Monday, 28th October, 1946.

VERNON LAWRENCE,

Clerk of the Council.

County Hall, Newport, Mon.

585

OFFICIAL APPOINTMENTS.

ARCHITECTURAL ASSISTANTS WANTED. Ministry of Works invite applications to fill vacancies for ARCHITECTURAL ASSISTANTS, either male or female, in an unestablished capacity, for Drawing Office duties in London. Applicants should have had an approved period of recognized training. Experience with a practising Architect, Local Authority or Government Department would be regarded as a considerable advantage, but candidates without the latter qualifications would receive consideration.

Salary: Up to £510 per annum inclusive, according to qualifications and experience.

An application from anyone at present employed by another Government Department cannot be considered unless his services have been declared redundant with his present Department.

Apply in writing to Chief Architect, W.G.10/JWG, Room 10, Ministry of Works, Abell House, John Islip Street, London, S.W.1. 592

DEPARTMENT OF HEALTH FOR SCOTLAND.

CHIEF ARCHITECT AND PLANNING OFFICER.

Applications are invited by the Department of Health for Scotland for the post of Chief Architect and Planning Officer in Edinburgh, at a salary of £1,800 inclusive.

The appointment is subject to the usual Civil Service conditions as to pension, holidays, etc. If the successful applicant is a pensionable official of a local authority, the Local Government and Civil Service (Superannuation) Rules, 1936, will apply.

Candidates must be between the ages of 35 and 50 on 1st September, 1946, must be members of the R.I.B.A. and the T.P.I., and must have extensive experience of housing (with particular reference to layout, design, and the new forms of construction) and of town and country planning.

Forms of application, with further particulars of the appointment, may be obtained from the Establishment Officer (Room 31), Department of Health for Scotland, St. Andrew's House, Edinburgh, 1, and must be returned to him not later than the 31st October, 1946.

Those candidates who appear best qualified will be required to attend a Selection Board in Edinburgh or London. 527

BOROUGH OF SOUTHGATE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Two Architectural Assistants, on the established staff of the Borough Engineer and Surveyor's Department, at a salary, etc., in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, i.e., £450-£510 per annum, plus £20 London area weighting.

In addition a cost-of-living bonus (at present £59 16s. per annum) is payable.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification. Previous Municipal experience, particularly in Housing, will be an advantage.

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

Candidates who to their knowledge are related to a Member or Senior Officer of the Council must disclose the relationship in their applications. Failure to do so will disqualify or render the candidates appointed liable to dismissal with out notice.

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

Applications, stating age, examination qualifications, present and past appointments, with dates and salaries, and particulars of experience, accompanied by copies of three recent testimonials, and endorsed on the envelope "Architectural Assistant," must reach Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, N.13, by not later than Friday, 25th October, 1946.

GORDON H. TAYLOR,

Town Clerk.

Southgate Town Hall, Palmers Green, N.13.

October, 1946.

595

URBAN DISTRICT COUNCIL OF HORNCHURCH.

SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments, at a salary of £360 per annum, rising by annual increments of £15 to a maximum of £405 per annum, plus cost-of-living bonus (at present amounting to £59 16s. per annum) each:—

(a) BUILDING INSPECTOR. Previous experience in this capacity is essential.

(b) ENGINEERING ASSISTANT. Applicants should have had experience in Engineering, and be competent in the preparation of surveys, working drawings, and quantities for Engineering schemes.

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

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed "Building Inspector" or "Engineering Assistant," as the case may be, should be delivered to the undersigned not later than Wednesday, the 30th October, 1946.

Canvassing, directly or indirectly, will disqualify.

P. L. COX,

Clerk of the Council.

Council Offices, Billet Lane, Hornchurch.

25th September, 1946.

565

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited from qualified persons for the permanent appointment of Architectural Assistant (Grade C) in the Borough Engineer and Surveyor's Department.

Candidates must be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification, and have general knowledge and experience of architectural work.

The salary will be in accordance with Grade C of the Council's Grading Scheme for official staff, i.e., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus war bonus, at present £59 16s. per annum, but the commencing salary may be increased according to the qualifications and experience of the persons appointed.

The Council have decided to apply the National Salary Scales, and the salary for these posts will be subject to revision in the near future.

There is also a vacancy for a temporary Architectural Assistant at the same salary, and candidates should indicate whether they would accept this appointment, which is likely to exist for at least two years.

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

Applications on the form provided must be delivered to the undersigned, together with copies of three recent testimonials, not later than Monday, 28th October, 1946.

Canvassing in any form will disqualify.

H. A. EDWARDS,
Town Clerk.

Town Hall, East Ham, E.6.
11th October, 1946. 593

BRADFORD EDUCATION COMMITTEE.

TECHNICAL COLLEGE, BRADFORD.

Applications are invited for appointment as Temporary ASSISTANT LECTURER, qualified to prepare students for the Sanitary Inspectors' Examination.

Membership of the Royal Sanitary Institute is essential, and additional qualifications in Sanitation and Building are desirable. Basic salary according to the Burnham Scale, which is from £300 to £525 per annum. Commencing salary according to qualifications and experience. The commencing salary may, subject to approval, be increased up to a maximum of ten increments of £15 per annum in respect of approved service in industry.

Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed forms should be returned to the Principal of the College within two weeks from the date of publication of this advertisement.

THOS. BOYCE,
Director of Education.

September, 1946. 595

GOVERNMENT OF NORTHERN IRELAND.

ASSISTANT ARCHITECTS.

Applications are invited for posts of ASSISTANT ARCHITECT, in the Ministry of Finance. The appointments will be temporary, but so far as can be foreseen will last for several years.

Remuneration.—Successful candidates will be remunerated within one of the following salary ranges:—

Range B: £350-£550 per annum.

Range C: £250-£450 per annum.

and the commencing salary within those ranges will be fixed according to the qualifications and experience of successful candidates. In addition a war bonus, varying between £78 and £90 per annum, is at present payable.

Qualifications.—To qualify for appointment on the B salary range candidates must have passed the Final (Associate) Examination of the Royal Institute of British Architects, or possess equivalent qualifications.

For appointment on the C salary range preference will be given to candidates who have passed the Intermediate (Studentship) Examination of the Royal Institute of British Architects.

Preference will be given to candidates who served with H.M. Forces during the 1914-18 or 1939-45 war, providing the Ministry is satisfied that such candidates can, or within reasonable time, will be able to discharge the duties of the post efficiently.

Closing Date for Receipt of Applications.—Applications must reach the Assistant Secretary (Establishments) Ministry of Finance, Stormont, Belfast, on or before the 31st October, 1946.

Applicants should state their date of birth, and give full particulars of qualifications and experience. They should also enclose copies of two recent testimonials. 612

BOROUGH OF EDMONTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF DRAUGHTSMAN (TEMPORARY).

Applications are invited for the temporary appointment of Draughtsman, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade I of the National Scheme of Conditions of Service (£330-£375 per annum), plus London "weighting" £20 per annum, and cost-of-living bonus, at present £59 16s. per annum.

Candidates should hold appropriate qualifications, and have had experience in housing and general building work. The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937.

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

Applications should be made on forms to be obtained from the Borough Engineer and Surveyor, Town Hall, Edmonton, London, N.9, and should be returned with copies of three recent testimonials to the undersigned on or before 26th October, 1946.

H. BACKHOUSE,
Town Clerk.

Town Hall, Edmonton, N.9.
4th October, 1946. 611

NORTHERN IRELAND HOUSING TRUST.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the above post. Candidates must be members of the Chartered Surveyors' Institute, who have had good experience in the preparation of estimates, bills of quantities, measuring-up and the adjustment of final accounts in connection with Housing Schemes.

The salary scale attaching to the post will be £640-£890, with entry point above the minimum in the case of a candidate with exceptional qualifications and experience.

The Northern Ireland Housing Trust is a Statutory Body set up by Parliament, and has an immediate building programme of several thousand houses.

The Chief Technical Officer of the Trust is E. A. Ferry, Esq., B.Arch., A.R.I.B.A., A.M.T.P.I. The appointment will be full time, and other things being equal, ex-Service preference will be given.

Candidates should apply by letter to the address given below, stating date and place of birth, qualifications and experience, the date when able to commence duties, and the names of two referees.

Applications will be received up to 9th November, 1946.

General Manager,
Northern Ireland Housing Trust, 5, Donegall
Square South, Belfast. 630

COUNTY BOROUGH OF SWANSEA.

ASSISTANT QUANTITY SURVEYORS.

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

(a) Senior Assistant Quantity Surveyor. Salary (Grade V), £460, rising by two annual increments of £15 and one of £20 to £510 per annum.

(b) Assistant Quantity Surveyor. Salary (Grade III), £390, rising by annual increments of £15 to £435 per annum.

The salary scales are those of the A.P. and T. Division of the National Scheme of Conditions of Service, and are exclusive of the "cost-of-living" bonus payable in addition at the will of the Council (current rate 23s. per week).

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

Applicants must be under 45 years of age.

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

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

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

Applications, accompanied by copies of three recent testimonials, and enclosed in an envelope endorsed "Senior Assistant Quantity Surveyor" or "Assistant Quantity Surveyor (III)," as the case may be, must be delivered to the undersigned not later than Monday, 11th November, 1946.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN,
Town Clerk.

Guildhall, Swansea.
8th October, 1946. 616

COUNTY BOROUGH OF DONCASTER.

BOROUGH SURVEYOR AND WATER ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments, at salaries in accordance with the National Joint Council Scales, plus cost-of-living bonus (at present £59 16s. per annum), unless otherwise stated:—

(a) SENIOR ENGINEERING ASSISTANT, Grade E.5 (£460-£510).

(b) ENGINEERING ASSISTANT, Grade E.4 (£420-£465).

(c) TWO TEMPORARY ENGINEERING ASSISTANTS, £500, plus cost-of-living bonus.

(d) SENIOR SURVEYING ASSISTANT, Grade E.2 (£360-£405).

(e) ASSISTANT QUANTITY SURVEYOR, Grade E.2 (£360-£405).

(f) TWO ENGINEERING DRAUGHTSMEN, General Division, £65-£300, according to age (maximum at 30 years).

(g) TWO ARCHITECTURAL ASSISTANTS, Grade E.3 (£390-£435).

(h) ONE ARCHITECTURAL ASSISTANT, Grade E.2 (£360-£405).

(a) Applicants for appointments should be Associate Members of the Institution of Civil Engineers and/or hold the Testamur of the Institution of Municipal and County Engineers, and should have extensive experience in all aspects of Municipal Engineering work.

(b) Be Associate Members of the Institution of Civil Engineers or hold the Testamur of the Institution of Municipal and County Engineers, and should have experience in all aspects of the work of a Municipal Engineer's Department, including Buildings and Water Supply.

(c) Have had extensive experience in works of Sewerage and Sewage Disposal, including Pumping Stations, and be suitably qualified. The period of employment will be for a period of at least three years.

(d) Have had considerable experience in the survey and levelling work required in a large Municipal Engineer's Office, and be qualified to take charge of Private Street Works under the Public Health Act, 1875.

(e) Have had experience in the preparation of Specifications and Bills of Quantities for Municipal Buildings and Engineering Works.

(f) Be neat and expeditious draughtsman, preferably with previous municipal experience.

(g) Have had experience in the design, construction, and maintenance of Public Buildings, and preference will be given to candidates who have had experience of work carried out both by contract and direct labour.

(h) Have had experience in the preparation of drawings and estimates for building works.

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

Applications, stating age and full particulars of experience, accompanied by copies of two recent testimonials, and suitably endorsed, should be delivered not later than Friday, the 1st November, 1946.

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

H. S. ESSENHIGH,
Town Clerk.

1, Priory Place, Doncaster. 627

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments, both of which are subject to the Local Government Superannuation Act, 1937, a medical examination, and one month's notice on either side. The salary scales are those of the A.P. & T. Division of the National Scales, and are exclusive of the cost-of-living bonus, at present £59 16s. per annum.

(a) CHIEF ARCHITECTURAL ASSISTANT (Grade VI), £535-£230-£225-£200 (commencing salary in accordance with qualifications and experience).

(b) QUANTITY SURVEYING ASSISTANT (Grade III), £390-£15-£15-£15-£435 (commencing salary £390).

Candidates for appointment (a) must be Registered Architects and Associates of the Royal Institute of British Architects, with considerable experience in the design of houses, municipal architectural work, and building quantities. Candidates for appointment (b) must be Professional Associates of the Royal Institution of Surveyors, having qualified in the Quantities Sub-Division, and should be experienced in the preparation of Specifications, Bills of Quantities, and Final Accounts for Housing Public Buildings, etc.

Application forms may be obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, to whom applications, appropriately endorsed, must be delivered not later than Friday, 1st November, 1946.

Canvassing, either directly or indirectly, will disqualify.

A. C. SHEPHERD,
Town Clerk.

Carr Bank, Mansfield.
7th October, 1946. 628

NOTTINGHAM AND DISTRICT TECHNICAL COLLEGE, SHAKESPEARE STREET, NOTTINGHAM.

Principal: H. BAKER, Ph.D., A.M.I.C.E., A.M.I.M.E.

LECTURER required in the Department of Building and Civil Engineering. A degree in Civil or Municipal Engineering or a higher qualification in Building or Architecture is required. Particulars and form of application, etc., may be obtained from the Registrar, to whom it should be returned as soon as possible.

F. STEPHENSON,
Acting Clerk to the Governors.

CITY OF MANCHESTER.

HOUSING DEPARTMENT.

(1) The Manchester Corporation invite applications for the following appointments:—

(a) **DEPUTY DIRECTOR OF HOUSING**, at a basic salary of £1,050, rising by biennial increments of £100 to £1,250 per annum.

(b) **DEPUTY (DIRECT WORKS) MANAGER**, at a basic salary of £275, rising by annual increments of £25 to £650 per annum (Grade VII—National Scales).

(c) **DEPUTY (MAINTENANCE) MANAGER**, at a basic salary of £460, rising by annual increments of £15 and £20 to £510 per annum (Grade V—National Scales).

(d) **FIRST PURCHASING ASSISTANT**, at a basic salary of £330, rising by annual increments of £15 to £375 per annum (Grade I—National Scales).

(e) **SECOND PURCHASING ASSISTANT**, at a basic salary of £315, rising by annual increments of £15 to £360 per annum (Clerical Division—National Scales).

(2) In each case the appropriate cost-of-living bonus recommended by the National Joint Council is payable in addition to the basic salary shown, and as regards (c) the salary may be reviewed in certain circumstances.

With regard to (a) the duties of this officer will be to deputise for and generally assist the Director of Housing, who is responsible for the control, organization and administration of the Corporation's Housing Department. Applicants must be capable organizers and administrators, possessing good business ability and experience of the design and construction of houses and the development of housing estates.

So far as (b) and (c) are concerned, applicants should have practical experience of all branches of the building trades, the requisitioning of plant and materials, the direction of different classes of labour, the erection of dwellings and estate development. Applicants for the post of Works Manager recently advertised who have already asked that their previous application should be treated as an application for the post of Deputy (Direct Works) Manager need not submit a further application.

With regards to (d) and (e), applicants should have experience of the buying of materials required for the construction, repair and renewal of houses, and also of the inspection and testing of materials submitted by contractors.

Applications (with copies of three recent testimonials) must be made upon the prescribed form, obtainable from me, and returned in a sealed envelope, indicating the appointment applied for, so as to reach me at the Town Hall, Manchester, 2, not later than Saturday, the 2nd November, 1946.

Canvassing in any form, oral or written, direct or indirect, is prohibited, and applications or copies thereof must not be sent to members of the Housing Committee or the Council.

PHILIP B. DINGLE,
Town Clerk.

Town Hall, Manchester, 2.
9th October, 1946.

633

BOROUGH OF BEDDINGTON AND WALLINGTON.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade I, of the National Scales (£330—£15—£375), plus £20 London weighting, and cost-of-living bonus, at present £59 16s. a year.

The appointment is subject to the provisions of the National Scheme, and to one month's notice on either side.

Candidates must have passed the Intermediate examination of the R.I.B.A., or hold some other appropriate qualification by examination.

Form of application, with further particulars, may be obtained from the Borough Engineer and Surveyor (Mr. A. W. Poyner, B.Sc.), and on completion should be sent, in envelope endorsed "Architectural Assistant," to reach me not later than Saturday, 26th October, 1946.

C. PETER CLARKE,
Town Clerk.

Town Hall, Wallington, Surrey.
1st October, 1946.

620

ROBERT GORDON'S TECHNICAL COLLEGE, ABERDEEN.

SCHOOL OF ARCHITECTURE AND DEPARTMENT OF BUILDING.

Head: E. F. DAVIES, B.Arch.(Lvpl.), F.R.I.B.A., F.R.I.A.S.

Applications are invited for the following posts:—

(a) **FULL-TIME LECTURER AND STUDIO INSTRUCTOR IN ARCHITECTURAL DESIGN AND CONSTRUCTIONAL SUBJECTS.** Salary: £400 by £15 to £625. Honours Graduate, or with additional qualification, £450 by £15 to £685.

(b) **FULL-TIME JUNIOR LECTURER AND STUDIO INSTRUCTOR IN CONSTRUCTIONAL SUBJECTS.** Salary: £360 by £15 to £595.

Commencing salary in each case according to qualifications and experience.

The School is recognized for purposes of exemption from the R.I.B.A. Intermediate and Final Examinations.

Applicants must be members of the Royal Institute of British Architects, and should possess the Degree or Diploma of a recognized School of Architecture.

Members of the staff of the school are normally afforded reasonable opportunities for practice and research.

The successful applicants will be expected to take up duties as soon as possible, but consideration will be given to applications received from men who may still be on National Service.

Applications, accompanied by three recent testimonials and names of three referees, should reach the undersigned (from whom further particulars may be obtained) by Thursday, November 7, 1946.

A. C. WEST,
Director.

636

BOROUGH OF BEXLEY.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the appointment of Two Architectural Assistants, in the Architect's Section of the Borough Engineer and Surveyor's Department, at salaries in accordance with Grade I of the A.P. and T. Division of the National Scales of Salaries—£330×£15—£375 per annum. The salaries will commence at £360 p.a., and there is in addition a weighting for the London area of £20 p.a., plus a cost-of-living bonus of £59 16s. p.a.

Candidates for the posts, which are permanent, should be Student members of the R.I.B.A., and have had experience in the preparation of working and detail drawings, specifications, and reports on works in progress.

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

Applications, giving age, details of qualifications and experience, present and previous appointments, together with copies only of testimonials, must be received by the Borough Engineer and Surveyor, Council Offices, Bexleyheath, Kent, not later than Monday, the 28th October, 1946.

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

ARTHUR GOLDFINCH,
Deputy Town Clerk.

Council Offices, Bexleyheath.

635

THE RURAL DISTRICT COUNCIL OF HATFIELD.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments on the staff of the Council's Architect, Mr. J. H. Parker, A.R.I.B.A.:—

(a) **ARCHITECTURAL ASSISTANT—Grade IV** of the Administrative, Professional and Technical Division (£420—£465 p.a.).

(b) **JUNIOR ARCHITECTURAL ASSISTANT—Grade I** of the Miscellaneous Division (£255—£300 p.a.).

Cost-of-living bonus on the National Scale will be paid in addition to the above salaries.

Preference will be given to candidates who have passed the final of the R.I.B.A. or equivalent examination.

Candidates for the second appointment should be undergoing or about to undergo a course of architectural training.

Applications, stating age, present post, and full particulars, should be sent to the undersigned by Saturday, the 26th October, 1946.

EDGAR F. CULL,
Clerk of the Council.

Council Offices, 16, St. Albans Road,
Hatfield, Herts.

7th October, 1946.

631

BOROUGH OF NUNEATON.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, on the permanent staff, in accordance with the National Scale, A.P.T., Grade V, salary £460—£15—£510.

A cost-of-living bonus, at present £59 16s. per annum, is also payable, and the successful applicant will be required to pass a medical examination, and be subject to the Local Government Superannuation Act, 1937, the appointment being terminable by one month's notice on either side.

Candidates should be Registered Architects, and preference will be given to Corporate Members of the R.I.B.A. or holders of the Diploma of a recognized School of Architecture.

Experience in Housing, Schools and Public Buildings is desirable. Applications, stating age, qualifications, experience, whether married or single, together with copies of two recent testimonials, should reach the undersigned not later than 31st October, 1946.

R. C. MOON, A.M.Inst.C.E.,
Borough Engineer and Surveyor.

Council House, Nuneaton.
5th October, 1946.

626

BOROUGH OF COLNE.

APPOINTMENT OF THREE ARCHITECTURAL ASSISTANTS.

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

(a) Two Architectural Assistants, at a salary in accordance with Grade V of the National Joint Council Scale of Salaries (£460 to £510 per annum), plus cost-of-living bonus, at present £59 16s. per annum.

(b) One Architectural Assistant, at a salary in accordance with Grade III of the National Joint Council Scale of Salaries (£390 to £435 per annum), plus cost-of-living bonus, at present £59 16s. per annum.

Applicants for appointment (a) must be qualified Architects, experienced in the preparation of Specifications and Estimates, with particular reference to housing development, and should have had a thorough training in design and building construction, preferably with a local authority. Preference will be given to persons holding a recognized architectural qualification by examination.

Applicants for appointment (b) must be qualified Architects, and will be required in the first place for the work in connection with Section 34 of the Factories Act, 1937 (means of escape in case of fire), and to be available for general architectural work, particularly in connection with housing schemes.

The appointments will be determinable by one month's notice in writing on either side, and are subject to the Local Government Superannuation Act, 1937. The successful candidates will be required to pass satisfactorily a medical examination. Candidates appointed will be required to devote the whole of their time to the service of the Council.

Applications, endorsed "Architectural Assistant (a)," or "Architectural Assistant (b)," stating age, qualifications, present and previous appointments, details of experience, and giving the names of three persons to whom reference can be made as to character and capabilities, must be delivered to the undersigned not later than Monday, 28th October, 1946. Canvassing in any form will disqualify.

L. A. VENABLES,
Town Clerk.

Town Hall, Colne.

615

BOROUGH OF WATFORD.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the permanent appointment of an Assistant Architect, in the Borough Engineer and Surveyor's Department.

Salary on Grade II, A.P.T., of the National Scale, £360 per annum, rising, subject to satisfactory service, to £405 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should hold an appropriate professional examination (and must have had experience in architectural design and construction).

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

Applications, stating age, qualifications, present and past appointments, and full details of experience, together with copies of two testimonials, must be sent to Mr. F. C. Saxe, Assoc.M.Inst.C.E., M.Inst.M. & C.E., Borough Engineer and Surveyor, Town Hall, Watford, not later than Friday, 25th October, endorsed "Assistant Architect."

A. NORMAN SCHOFIELD,
Town Clerk.

Town Hall, Watford.
October, 1946.

610

BOROUGH OF RICHMOND, SURREY.

Applications are invited for the appointment of a TOWN PLANNING ASSISTANT, on the staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade IV of the National Salary Scale (A.P. and T. Division), viz., £420-£465 p.a., plus £20 p.a. weighting for the London area, and a cost-of-living bonus, at present £59 16s. p.a.

The appointment is on the permanent staff, and is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applicants should be Corporate Members of the Town Planning Institute and, in addition, hold an architectural, surveying, or engineering qualification. They should also have had considerable experience in the preparation and administration of planning schemes.

Applications, stating in the following order: (i) title of appointment applied for; (ii) surname, followed by Christian names; (iii) address; (iv) age, date and place of birth; (v) education and training; (vi) professional qualifications (a) by examination, (b) without examination; (vii) present position, salary, and date appointed; (viii) previous positions, with dates and salaries; (ix) detailed particulars of experience; (x) length of notice required in present position, should be forwarded with copies of two recent testimonials to the undersigned, to be delivered not later than 31st October, 1946.

Canvassing will disqualify. Candidates shall, when making application, disclose in writing whether to their knowledge they are related to any member of the Council or senior officer.

CLIFFORD HEYWORTH,

Town Clerk.

617

CARDIFF AND DISTRICT JOINT PLANNING COMMITTEE.

PLANNING OFFICER.

Applications are invited for the position of Planning Officer to the above-mentioned Joint Committee. The position now advertised is the first appointment to be made.

The position will be a whole-time one, and the salary will be according to experience and qualifications within the scale of £800 to £1,000 per annum, by annual increments of £50. The conditions of service will be those contained in the Scheme of Conditions of Service Prepared by the National Joint Council for Local Authorities' Administrative, etc., Services. The appointment will be determinable by three months' notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

The Joint Committee has recently been constituted to prepare a Planning Scheme for that part of the County of Glamorgan comprising the areas of the Barry Borough Council, the Penarth Urban District Council, the Cardiff Rural District Council, and part of the City of Cardiff.

Applicants should have had wide experience of all aspects of Statutory Planning, Interim Development Control, preparation of basic surveys and statutory planning schemes, and must be Corporate Members of the Town Planning Institute. In addition, applicants must be one of the following:—

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

(b) Corporate Members of the Institution of Municipal and County Engineers;

(c) Corporate Members of the Royal Institution of Chartered Surveyors;

(d) Fellows or Associates of the Royal Institute of British Architects.

Applicants must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Joint Committee. Canvassing will disqualify.

Applications, stating age, qualifications, past and present appointments and present salary, accompanied by the names of two referees, must be sent to reach the undersigned by the 31st October, 1946.

S. TAPPER JONES,

Clerk to the Cardiff and District Joint Planning Committee.

City Hall, Cardiff.

8th October, 1946.

640

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited, by 19th November, 1946, for the appointment of a Quantity Surveyor, in Grade A.P.T. IV, at a salary of £420 by £15 to £465 per annum, plus bonus, £59 16s. 3d.

Particulars and forms of application are obtainable from the Borough Surveyor, Town Hall, Wallasey, on receipt of a stamped addressed envelope.

EMREYS EVANS,

Town Clerk.

632

CITY OF OXFORD.

Applications are invited for the following appointments, in the Department of the City Estates Surveyor and Architect to the Education Committee.

Appointments (a) and (c) will be subject to the National Scheme of Conditions of Service, and to the provisions of the Local Government (Superannuation) Act, 1937.

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

(a) SENIOR ASSISTANT. At a salary in accordance with Grade III of the National Scale of Salaries, viz., £390 to £435 per annum, exclusive of cost-of-living bonus (at present £59 16s. per annum).

Applicants must be Professional Associates of the Royal Institution of Chartered Surveyors, with experience in valuation and property management, and accustomed to the preparation of plans and specifications for minor building works.

(b) ARCHITECTURAL ASSISTANT (TEMPORARY). At a salary from £460 to £510 per annum, according to experience, exclusive of cost-of-living bonus (at present £59 16s. per annum).

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

(c) TECHNICAL ASSISTANT—HOUSING. At a salary in accordance with Grade I (Miscellaneous Division) of the National Scale of Salaries, viz., £255, rising by annual increments of £15 to £300 per annum, plus cost-of-living bonus (at present £59 16s. per annum).

The duties will be in connection with the repairs and maintenance of the Corporation's Housing Estates, and candidates must possess a knowledge of building construction and management of property.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, should be sent to the City Estates Surveyor, Town Hall, Oxford, not later than Monday, the 11th November, 1946.

646

BOROUGH OF SCARBOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from duly qualified persons for the appointment of Architectural Assistant. Salary scale in Grade III of the National Joint Council Scales of Salaries £4390-£4535, plus £59 16s. war bonus, according to qualifications and experience.

The appointment is subject to the Local Government Superannuation Act, and terminable by one month's notice in writing on either side. The successful candidate will be required to pass a medical examination. Applications, stating age, particulars of training, qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than the 4th November, 1946.

H. V. OVERFIELD,

Borough and Water Engineer.

Town Hall, Scarborough.

634

COUNTY BOROUGH OF DONCASTER EDUCATION COMMITTEE.

APPOINTMENT OF ASSISTANT EDUCATION ARCHITECT.

Applications are invited from men of suitable qualifications and experience for appointment as Assistant Education Architect. Applicants should have passed the qualifying examination of the R.I.B.A. or one of equivalent standing.

Salary in accordance with Grade A.P.T. IV of the National Joint Council Scales (£420×£15—£465, plus bonus).

The post will be superannuable. Conditions of appointment obtainable from the undersigned on receipt of stamped addressed foolscap envelopes. Applications should be sent as soon as possible.

V. H. HOSKIN,

Chief Education Officer.

Education Office, Doncaster.

5th October, 1946.

618

BATTERSEA BOROUGH COUNCIL.

APPOINTMENT OF TWO SENIOR ARCHITECTURAL ASSISTANTS.

Applications are invited for permanent appointments of two Senior Architectural Assistants, in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Grades V to VI, of the National Scale, viz., £460-£600, plus £20 London weighting and cost-of-living bonus, at present £50 16s. per annum.

Candidates must be Associates of the Royal Institute of British Architects, and be experienced in the planning and design of housing schemes.

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

Applications, on forms which may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.11, and accompanied by copies of three recent testimonials, should be delivered to the undersigned not later than noon on Monday, the 11th November, 1946.

R. G. BERRY,

Town Clerk.

Town Hall, Lavender Hill, S.W.11.

October, 1946.

647

Architectural Appointments Vacant

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

Wherever possible prospective employers are urged to give in their advertisements full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in lieu of a box number is welcomed.

ARCHITECTURAL ASSISTANT required for progressive London firm of architects; good prospects for keen and energetic man. Write, giving details, to Box 573.

LONDON PASSENGER TRANSPORT BOARD.—Applications are invited for appointments on the temporary staff of the Architect's Office as follows: ASSISTANT ARCHITECTS, ARCHITECTURAL ASSISTANTS, STRUCTURAL ENGINEERING ASSISTANTS. Salaries range from £250 to £465 per annum, according to ability, qualifications and experience, plus war advance, at present £72 16s. per annum. Applications, which should give a brief outline of training and experience, to be sent to Assistant Staff Officer (ER/E.261), 55, Broadway, Westminster, S.W.1, or by telephone ABBey 1234, extension 194.

575

WEST END Surveyors require qualified Surveyor; to take complete charge of department dealing with W/D claims, compensations, schedules of repairs and conditions; good salary and prospects for right man; must have experience. Box 581.

LEY, COLBECK & PARTNERS have a vacancy for a Senior Draughtsman, who has at least 5 years' experience of London practice. 'Phone London Wall 2917.

596

SENIOR and JUNIOR ASSISTANTS required immediately for general practice. State age, experience, and salary required, to Howard Williams & Partner, 2, St. Andrews Place, Cardiff.

613

VACANCIES occur for experienced Assistants, in the Architects' Department of a Midland Multiple Company. Applicants are requested to give particulars of training, qualifications, age, and salary required, to Box 614.

SENIOR ASSISTANT required immediately in Private Architect's Office, N.W. Kent (20 miles from London); able to take charge of drawing office and prepare specifications; work mainly housing estates, licensed premises, war damage; salary £400-£450, according to ability. Reply, stating training, experience, qualifications and age, to Box 619.

ASSISTANT required for progressive position in young practice handling domestic work and industrial design; intelligence, versatility, and experienced draughtsmanship essential. ASSISTANT also required with experience of dilapidations, war damage, specifications, etc. Applications, with brief particulars, to Eric Lyons & Townsend, Mill House, Bridge Road, East Molesey, Surrey (office situated near Hampton Court). 621

ARCHITECTURAL ASSISTANT wanted in London; Inter. R.I.B.A. standard; neat and accurate draughtsman, with good knowledge of construction; salary according to experience. Box 255, L.P.E., 110, St. Martin's Lane, W.C.2. 622

ARCHITECTURAL ASSISTANT required; salary £350 to £500 per annum, according to qualifications. Apply A. H. Gardiner, F.R.I.B.A., 11, Eaton Road, Coventry. 624

ARCHITECTURAL ASSISTANTS wanted; experienced in factory building work; knowledge of structural steel and reinforced concrete design, specifications, quantities. Write, stating age, experience, and salary required, to The Staff Manager, Kodak, Ltd., The Works, Wealdstone. 625

ARCHITECTURAL ASSISTANTS (Inter. R.I.B.A. Standard) and **SURVEYORS** (all types of surveying and quantities) required; salaries £300 p.a. and upwards, according to qualifications; offices situated in country area; five-day week of 40 hours; expenses will be paid for interviews. W. James Venables, L.R.I.B.A., 1, West Road, Congleton, Cheshire (Telephone 2003). 629

TWO ASSISTANTS required for progressive private office on East Coast. All details and salary to Box 648.

SENIOR ARCHITECTURAL ASSISTANT required immediately for responsible position; at least R.I.B.A. Intermediate standard essential; salary by arrangement. Apply Lavender & Twentyman, 2, Waterloo Road, Wolverhampton. 650

LESLIE H. KEMP, F.R.I.B.A., requires an Assistant. Apply by letter, giving usual details, 10, Great James Street, Bedford Row, W.C.1. 639

AN opportunity occurs in a London Architect's Office for one capable Senior Assistant and one Junior Assistant. Please send full details of capabilities to Box 641.

ARCHITECTURAL ASSISTANT required by Leicester Architect; sound knowledge of building construction, and be capable of preparing detailed working drawings from sketch designs. Full particulars and salary required to Box 643.

THE Zoological Society of London, Regent's Park, London, N.W.8, requires the services of a whole-time Architect at an early date; duties of the post will include supervision of maintenance work, as well as preparation of plans and supervision of contractors in connection with future new buildings; commencing salary £1,000 p.a., without accommodation. Applications, in writing only, must reach the Secretary at the above address on or before the 16th November, 1946. 645

Architectural Appointments Wanted

Advertisements from Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

INTERIOR Decoration Expert (aged 31) desires responsible position in or north of London; over 13 years' experience of domestic, cinema, shop and exhibition architecture and interior design; good draughtsman, with sound knowledge of contemporary design and materials; salary £500. Box 127.

MATURE REGISTERED ARCHITECT, at present engaged, formerly in practice, seeks post, London; sound practical experience in works supervision, maintenance, surveys in war damage and dilapidations, specifications, drawings for conversions; good designer. Box 138.

ARCHITECTURAL ASSISTANT, 10 years' experience in housing and factory design, surveys and writing specifications, desires a post with a Building Contractor on the South Coast. Box 132.

JUNIOR ARCHITECTURAL ASSISTANT (20) desires position offering experience in South-West Lancashire or on Merseyside, whilst studying for the Inter. R.I.B.A. at evening classes; probationer R.I.B.A.; good secondary education (school certificate); one year at the Liverpool School of Architecture; 18 months' office training; can make surveys, etc.; exempt National Service; free November. Box 131.

STRUCTURAL ENGINEER, expert in concrete, steel and foundations, wants suitable position, or gives prof. assistance to Architects and Builders. Box 133.

REGISTERED ARCHITECT, 19 years' experience, employed London Municipality, desires Provincial Borough or County appointment; salary approx. £475 p.a. net. Box 134.

ARCHITECT'S JUNIOR ASSISTANT requires situation; London (Wimbledon) area preferred; neat draughtsman; knowledge of building construction and building law; moderate salary to begin, providing progressive, according to ability. Box 135.

JUNIOR DRAUGHTSMAN requires position in Architect's Office; 1 year's experience in architecture and surveying. Box 136.

ARCHITECT, recently demobbed, requires part-time work; working drawings, details, surveys, perspectives, sketch plans, specifications, etc.; varied experience, and good all-round knowledge of profession. Box 137.

ARCHITECTURAL ASSISTANT (28) seeks progressive position; varied experience (9 years); good knowledge of construction, quantities, specifications, W.D. supervision; now studying for final. Box 139.

ASSISTANT (30), above Inter. Standard, seeks position, Reading area; good general experience, but specialising in housing and industrial work; salary arranged. Box 140.

ARCHITECTURAL ASSISTANT (Dipl. Assoc. Livpl.), varied experience, requires temporary or permanent position immediately; in Liverpool area. Box 142.

But you can get
'THE TIMES'
now

—and it's ten pages daily
You can also get THE TIMES LITERARY
SUPPLEMENT, THE TIMES EDUCATIONAL
SUPPLEMENT, THE TIMES WEEKLY EDITION
Order from your local newsagent

THE  THE TIMES
—a part of Britain's life

Electroway
HEATERS LIMITED
INSET ELECTRIC FIRES

- A limited number of models are available in restricted quantities.
- Full production will be achieved as soon as conditions permit.
- In the meantime we ask for the indulgence of friends.

ELECTROWAY HEATERS LTD.
LOUGHBOROUGH ENGLAND



The registered Trade Mark on Ashley Electrical Accessories is a guarantee of reliability and of quality second to none.

It is regretted that supplies are still far short of customers' requirements, but output is being distributed in strict fairness to all.

As the raw material situation improves, delays and shortages will be eliminated.

ASHLEY
ACCESSORIES LTD
MANUFACTURERS OF ELECTRICAL ACCESSORIES
ULVERSTON · LANCASHIRE

JUNIOR (17) seeks post with Architect's, in London area; Junior Technical School Diploma, with 2 years' drawing office experience. Box 141.

BOY (16), studying for Intermediate R.I.B.A., seeks interesting, progressive, position in drawing office; some drawing office and surveying experience; Central or West London area preferred. Apply Box 143.

ARCHITECTURAL DRAUGHTSMAN; 8 years' experience all types buildings, sketch plans, working drawings, surveys, etc.; N. England or Borders; moderate salary. Box 144.

Other Appointments Wanted

Four lines or under, 2s. 6d.; each additional line, 1s.

PERSPECTIVES executed in any medium. Box 991.

PERSPECTIVES, Pencil, and other medium executed well and quickly. Box 999.

TYPIST can now take on work from Architects; specifications, bills of quantities, etc.; own office. Sharp, 58, Charlwood Road, Putney, S.W.15. 562

FREE October 1st.—Representative, combining sound design, experience decorative metals, plastics, etc., with live connection architects and important buildings and shopfitters; Midlands preferred. Box 106.

A.R.I.B.A., A.M.T.P.I., offers assistance to other Architects from own home; excellent designer, housing, commercial, war damages, etc. Box 583.

PERSPECTIVES, Sketch Plans, and other drawing office work carried out by first-class draughtsman. Box 589.

CAPABLE ARCHITECTURAL ASSISTANTS; prepared to undertake spare-time work; working drawings, surveys, etc.; good draughtsmen and sound knowledge of construction. Apply Sparks, 80, Pepys Road, New Cross, S.E.14. 603

EXCELLENT DRAUGHTSMAN requires Architectural Work at home; tracings only on linen, etc. Dradsford, Speedwell 8852. 637

NORTH WALES AND NORTH-WEST.—Quantity Surveyor's established office solicits commissions for taking off Quantities and Preparing Bills. Box 638.

For Sale

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

LIMITED No. of Copies 1st Report of the "Committee for the Industrial and Scientific Provision of Housing (Social, Commercial and Technical Requirements of Quantity Production)," 5s.; 2nd Report "Some Technical History and Considerations," 10s. N. Fielker, 609, Nelson House, Dolphin Square, S.W.1. 537

PITMAN'S "Building Educator." R. Greenhalgh editor; 3 vols. in excellent condition; £2 15s., or offer. Dyer, 57, Queen Street, Ramsgate. 644

Miscellaneous

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

A. J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular guard rail, factory partitions and gates. 99-107, St. Pauls Road, N.1. Canonbury 2061.

F. J. BAYNES, LTD., established over 100 years. Heating, Ventilating and Sanitary Engineers, 99/107, St. Pauls Road, N.1. Canonbury 2061-3.

FENCING AND GATES of every type, supplied and erected. Specialists in chain link. Boulton & Paul, Limited, Norwich.

INVESTMENT TRUST wishes to purchase PROPERTY LET to good tenants. Details of Houses, Flats or Shops to John Swait & Sons Surveyors, The Mall, W.5. EAL 2866 50*

WANTED.—One set of "Arts Et Matiers Graphiques." Please reply to Box 5.

"CAN I HELP YOU?" I have on my staff Architectural and Civil Engineering Draughtsmen, Building, Estimating, Land, Measuring and Quantity Surveyors. Write C. F. Rumble, 29/31, Whitehall, S.W.1. Tel.: Whitehall 8514.

WANTED.—Complete set of "Typography." Box 487.

HEATING, HOT WATER SERVICES, VENTILATION, AIR CONDITIONING for Hotels, Flats, Private Houses, Public Buildings, Factories; district heating and communal services; Consulting Engineers would be glad to collaborate with Architects in Design and Installation of Schemes. W. H. Ross & Partners. Temporary address: "Stratton," Deanery Road, Godalming. 599

FENCING AND GATES of every type, supplied and erected. Specialists in chain link. Boulton & Paul, Limited, Norwich.

DRAWING OFFICE SUPPLIES.—"Classic" Tee-squares made from well-seasoned Honduras mahogany; 12 in., 3s. 9d.; 18 in., 5s.; 24 in., 6s. 6d.; 34 in., 10s. 6d.; 42 in., 13s. (all post free). "Classic" SET-SQUARES, made from stout celluloid: 45 deg.—4 in., 1s.; 5 in., 1s. 2d.; 6 in., 1s. 6d.; 8 in., 2s. 4d.; 10 in., 2s. 10d.; 12 in., 3s. 3d.; 15 in., 3s. 9d.; 60 deg.—5 in., 1s.; 6 in., 1s. 2d.; 8 in., 1s. 6d.; 10 in., 2s. 4d.; 12 in., 2s. 10d.; 15 in., 3s. 3d.; 18 in., 3s. 9d. BRASS DRAWING PINS, with screwed steel points, bevelled tops, milled edge, packed three dozen to the box: Per box, 8 in., 6s. 9d.; 7 in., 7s. 7d.; 8 in., 8s. 6d.; 1 in., 11s. Stobart & Son, 9, Victoria Street, London, S.W.1.

RAPID WRITING for busy people. Send 3d. for first lesson. Double Speed Longhand (830), 92, Gt. Russell Street, W.C.1. 666

BILLS of Quantities, Specifications, etc., duplicated/typed accurately and rapidly; estimates given. John and Marjorie Nixon, Cartréff, Chestnut Lane, Amersham, Bucks. 953

WANTED.—Clean copy of Christopher Tannard's "Gardens in the Modern Landscape." Box 642.

Educational Announcements

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

R.I.B.A. QUALIFYING EXAMINATIONS. Mr. C. W. Box, F.R.I.B.A., M.R.San.I. Courses of Correspondence and Personal to Studio, 115, Gower St., London, W.C.1. (Tel.: Euston 3906).

R.I.B.A. and T.P. INST. EXAMS. Private Courses of Tuition by correspondence arranged by Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I. Tutor, 212, Fuston Road, N.W.1. Tel.: EUS. 7760.

THE WORLD'S GREATEST BOOKSHOP.

FOYLES
BOOKSELLERS TO THE WORLD
119-125 CHARING CROSS RD., LONDON, W.C.2
Open 9 a.m.—6 p.m., including Saturday.
Telephone: GERard 5660 (16 lines).

INDUSTRIAL ROOFING
Contractors
SPECIALISTS IN TROUGHING
DECKING & DOUBLE SHEETING
Distributors of all A.C. Products
RJ SYMONS LTD
STATION APPROACH HINCHLEY WOOD
ESHER SURREY EMBERBROOK 3535/6

NEW FLOORS for OLD
Wood Floors Planed, Sanded,
Repaired and Treated.
FLOOR RENOVATIONS LTD.
N. LAMINGTON ROAD, E.1. Phone: AMH 1080
Sandpapering machines for hire.

MODELS ESTAB. 1893.
BY
John B. THORP
FOR 98 GRAYS INN ROAD, W.C.1
TOWN PLANNING
PUBLIC BUILDINGS
ESTATES and INTERIORS
TELEPHONE: HOLBORN 1011

STEELWORK BY
R. W. SHARMAN LTD.
SWANWORKS, HANWORTH, MIDDY
Phones: "Whitham 3007," Sunbury 2367. "Grange" "Shorman," Feltham.

Electrical Contracting
For a complete and helpful service
RING WEMBLEY 0194
SERVICE ELECTRIC CO. LTD.
ABBAY MANUFACTURING ESTATE
ALPERTON MIDDY

SPECIFY
ELLISON ELECTRIC SWITCHGEAR
For High Voltage Mains
Distribution Mains
and Motor Starters
GEORGE ELLISON Limited
Perry Street, Birmingham 10



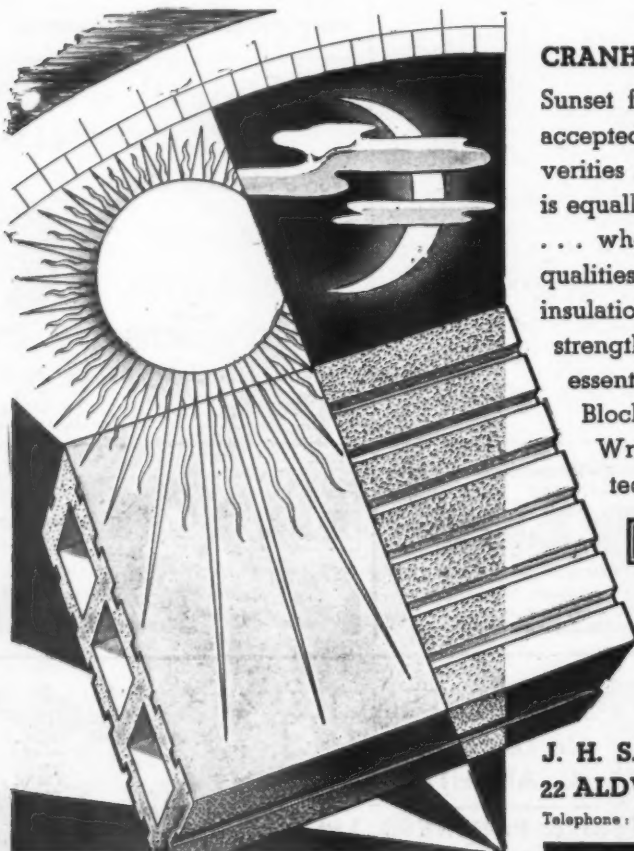
"UNO" STENCILS
for Lettering
ENGINEERS' & ARCHITECTS' PLANS
A. WEST & PARTNERS, Ltd.
36, BROADWAY, WESTMINSTER, LONDON, S.W.1



Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Abbey Building Supplies Co., Ltd.		Electroway Heaters, Ltd.	lii	Prodorite, Ltd.	xlii
Adams, Robt. (Victor), Ltd.		Ellison, George, Ltd.	iv	Pyrotenax, Ltd.	xlii
Aero Pipe & Glass Co., Ltd.	xxv	English Joinery Manufacturers Assoc.	xxxviii	Radiation, Ltd.	vi
Aidas Electric, Ltd.	xii	Ewart & Son, Ltd.	xli	Range Boilers, Ltd.	xlviii
Aluminium Development Assoc., The	iii	Fisher & Ludlow, Ltd.	xli	Rawiplug Co., Ltd.	
Anderson, C. F., & Sons, Ltd.		Floor Renovations, Ltd.	iv	Rolrat Tank Co., Ltd.	
Arkinsteel Brothers, Ltd.	xi	Forham Pressings, Ltd.	xli	Ross, S. Grahame, Ltd.	viii
Ascol Gas Water Heaters, Ltd.		Foyles	ii	Rownsdon Drew & Clydesdale, Ltd.	
Ashley Accessories, Ltd.	liv	Freeman, Joseph, Sons & Co., Ltd.	ix	Ruberoid Co., Ltd.	xvii
Baldwin, Son & Co., Ltd.	xli	Gray, J. W., & Son, Ltd.	xli	Sadd, John, & Sons, Ltd.	xvii
Banister Walton & Co., Ltd.	xxxviii	General Electric Co., Ltd.	ix	Sanders, Wm., & Co. (Wednesbury), Ltd.	xvii
Bath Cabinet Makers & Artcrafts, Ltd.		Gillett & Johnston, Ltd.	xli	Sankey, J. H., & Son, Ltd.	vii, lvi
Belling & Co., Ltd.	xxxviii	Griffiths Bros. & Co., London, Ltd.	xxxviii	Saunders & Taylor, Ltd.	
Benham & Sons, Ltd.		Greenwood's & Airvac Ventilating Co., Ltd.	ii	Scaffolding (Great Britain), Ltd.	iv
Berry's Electric, Ltd.		Hall, Robert H. & Co. (Kent), Ltd.	xvi	Service Electric Co., Ltd.	xlv
Birmabright, Ltd.		Harvey, G. A., & Co. (London), Ltd.		Shaffer, James, Ltd.	iv
Blackburn, Thomas, & Sons, Ltd.	xliii	Head, Wrightson & Co., Ltd.		Shannon, R. W., Ltd.	
Blundell, Spence & Co., Ltd.		Helliwell & Co., Ltd.	liii	Sissons, W. & G., Ltd.	
Bone, Connell & Co., Ltd.	ii	Henderson, P. C., Ltd.	xlviii	Smith & Rodger, Ltd.	
Bratt Colbran, Ltd.	xv	Hollway, F. & Brother, Ltd.		Smith's English Clocks, Ltd.	
Bradbury, Joseph, & Sons, Ltd.		Hope, Henry, & Sons, Ltd.		Smith's Fireproof Floors, Ltd.	xlix
Briggs, William, & Sons, Ltd.	xi	Huntley & Sparks, Ltd.		Spiral Tube & Components Co., Ltd.	xli
Brightside Foundry & Engineering Co., Ltd.	xxvi	Imperial Chemical Industries, Ltd.	v	Staines Kitchen Equipment Co., Ltd.	xxxix
British Aluminium Co., Ltd., The	xxxiv	International Plastics, Ltd.	xxvii	Stent Precast Concrete, Ltd.	xiv
British Electrical Development Assoc.	xxxvii	Jenkins, Robert, & Co., Ltd.		Sundale Board Co., Ltd.	xxxix
British National Electric, Ltd.	xli	Johnston Bros. (Contractors), Ltd.		Sutcliffe, Speakman & Co., Ltd.	
British Trane Co., Ltd.		Jones, Samuel, & Co., Ltd.		Symons, R. J., Ltd.	iv
Broadcast Relay Service, Ltd.	xxxvii	Key Engineering Co., Ltd.		Taylor Woodrow Construction, Ltd.	xi
Bryce, White & Co., Ltd.		King, George W., Ltd.	xxii	Testest Fibre Board Co., Ltd.	xxi
Burgess Products, Ltd.		Laing, John, & Son, Ltd.		The Times "	liv
Cargo Fleet Iron Co., Ltd.		Lever, James, & Sons, Ltd.	lvii	Thompson Beacon Windows, Ltd., John	
Carlisle Electrical Mfg. Co., Ltd.		Limmer & Trinidad Lake Asphalt Co.	xli	Thornborough & Son (Manchester), Ltd.	iv
Carrier Engineering Co., Ltd.		Lloyd Boards, Ltd.	xli	Thorpe, John B.	ii
Catalin, Ltd.		Lockerbie & Wilkinson (Tipton), Ltd.		Thornton, A. G., Ltd.	
Celotex, Ltd.	xlii	London Brick Co., Ltd.		Tretol Ltd.	xxviii
Cellon, Ltd.		Lovell & Hanson, Ltd.		True Flue, Ltd.	xlvii
Cement Marketing Co., Ltd.		Lunn, Sir Henry, Ltd.	xi	Trussed Concrete Steel Co., Ltd.	xix
Charlesworth (Great Britain), Ltd.	iv	Mallinson, William, & Sons, Ltd.	xxx	Turners' Asbestos Cement Co., Ltd.	xxiv
Checcol Processes, Ltd.		McCall & Co. (Sheffield), Ltd.	lvii	Uni-Seco Structures, Ltd.	
Clifford Aero & Auto, Ltd.		McCarthy, M., & Sons, Ltd.	xviii	United Strip & Bar Mills	
Copper Development Assoc.		Metal Window Information Bureau ...	xviii	Van Don Electric Tools	xxiii
Copperad, Ltd.		Midland Bank, Ltd.	xx	Venesta, Ltd.	xliii
Crittall, Richard, & Co., Ltd.		Midland Electric Mfg. Co., Ltd.	xx	Vulcanite, Ltd.	xlix
Croft Granite, Brick & Concrete Co., Ltd.		Midland Woodworking Co., Ltd.	xxix	Wadsworth, Wm., & Sons, Ltd.	
Davidson, C., & Sons, Ltd.		Mills Scaffold Co., Ltd.	lviii	Walpamur, Ltd., The	
Dawnays, Ltd.		Ministry of Labour & National Service ...	xiv	Walsall Conduits, Ltd.	
Dreadnought Fireproof Doors, 1930, Ltd.		Morris, M. A., Ltd.	xxxvi	Ware, W. C., & Sons, Ltd.	
Dynamels, Ltd.	xlv	Morris Singer Company	xxxvi	Warwick Rim & Sectioning Co., Ltd.	
Eagle Pencil Co.	xlii	Oliver, Wm., & Sons, Ltd.	xli	West & Partners, Ltd.	iv
Eagle Range & Grate Co., Ltd.		Paragon Glazing Co., Ltd.	xli	Wheeler, F. H., & Co., Ltd.	
Electrical & General Accessories (Leicester), Ltd.	xi	Park Foundry (Belper), Ltd.	xxxv	Wimpey, George, & Co., Ltd.	
Electrolux, Ltd.	x	Parnall, George, & Co., Ltd.	xxxv	Wood Wool Building Slab Manufacturers' Assoc.	
		Penfold Fencing, Ltd.		Wright Anderson Co., Ltd.	

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc. Educational, Legal Notices, Miscellaneous Property and Land Sales—see pages i, ii, iii, liii, liv, and iv.



CRANHAM—A NEW WORD FOR DEPENDABILITY

Sunset following sunrise . . . so dependable that it is accepted as common-place . . . yet one of the eternal verities . . . and the dependability of Cranham Blocks is equally axiomatic. For post-war reconstruction jobs . . . where dependability will be a first priority . . . qualities of fire and damp resistance, of heat and sound insulation, of lightness combined with great mechanical strength, and a perfect key for plastering, will be essential . . . in a word, the qualities of Cranham Blocks!

Write to-day (enclosing 1d. stamp) for full technical details.

SANKEY'S

CRANHAM BLOCKS

J. H. SANKEY & SON LTD.

22 ALDWYCH HOUSE, ALDWYCH, LONDON, W.C.2

Telephone: HOLborn 6949 (14 lines)

Telegrams: Brickwork, Estrand, London

PAGE
xlii

vi
xlviii

viii

xvii

xlvii
i, lvi

lv
xlii
lv

xlix
xlii
xxix
xiv
xxix

lv
xi
xxi
liv

lv
ii
xxviii
xlvii
xix
xxiv

xxiii
xliii
xlix

lv

Y

is

al

ts

os

.

d

al

e

n

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll

ll