

ARTS DEPT.

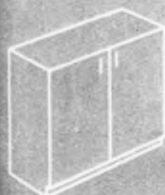
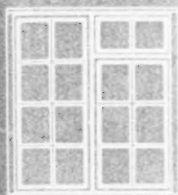
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THE ARCHITECTS' JOURNAL

NEW YEAR ISSUE

PRICE ONE AND SIXPENCE

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JOHN SADD & SONS LTD.

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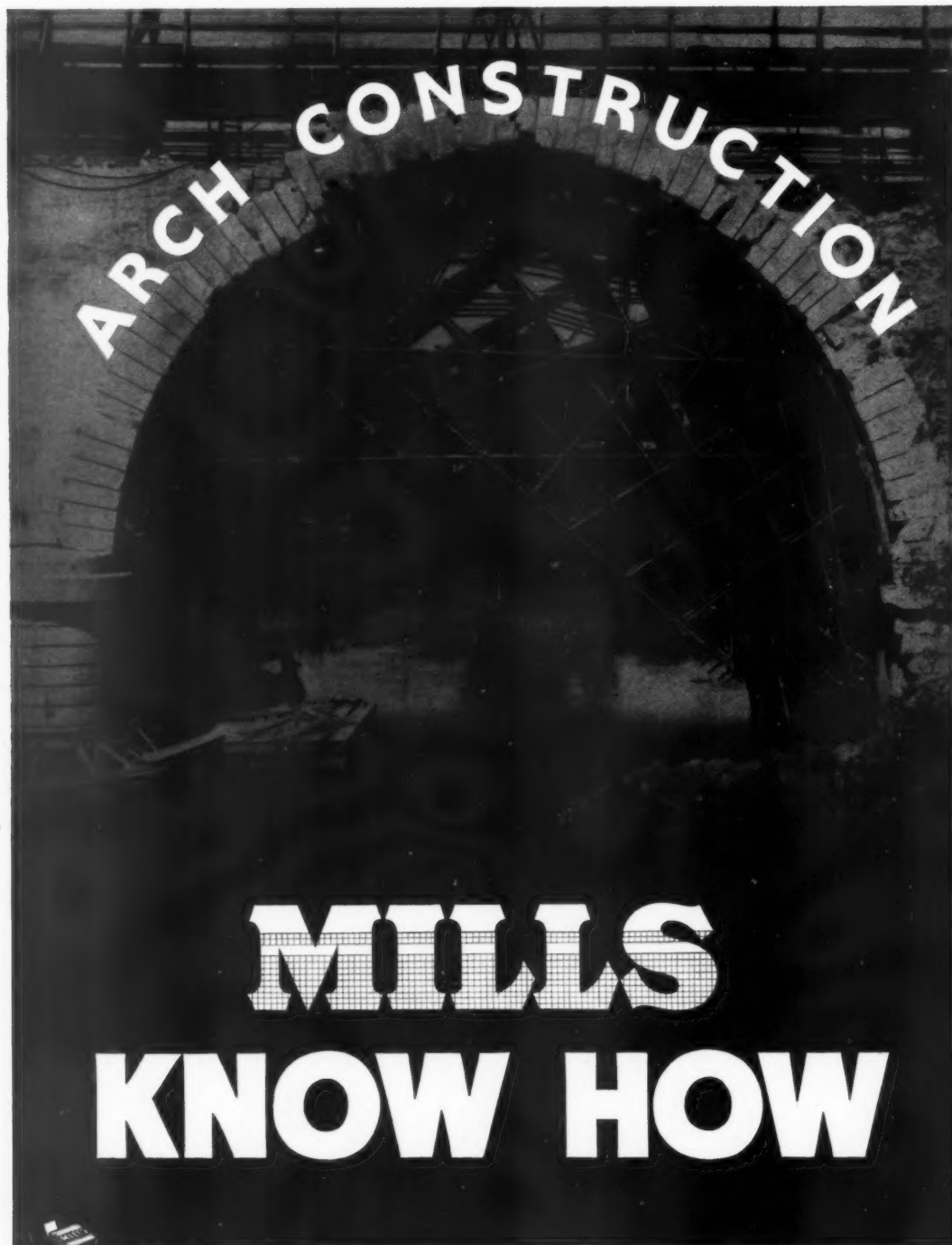
MALDON

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ESSEX



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OR YOUR NEAREST DEPOT**

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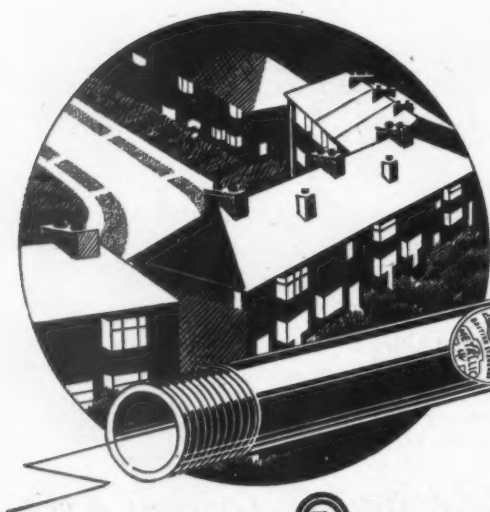
BIRMINGHAM ■ CANTERBURY ■ EXETER ■ GLASGOW
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All the newest technical improvements available to contractors will make this new estate a worthy contribution to the housing problem. It will make big demands on electrical services for its many domestic needs. So, METALLIC conduits will assuredly be specified—chosen for its unfailing reliability, meticulous accuracy and simplicity of assembly. METALLIC is processed from laboratory-tested flawless metal—

The SAFE conduit for SAFE conduct

METALLIC
CONDUIT TUBE
AND FITTINGS



COMPANY

THE METALLIC SEAMLESS TUBE CO. LTD.,
LUDGATE HILL, BIRMINGHAM. TEL.: CEN. 7167.
Also at London, Newcastle-on-Tyne,
Leeds, Swansea and Glasgow.

The background of the advertisement is a detailed illustration of various industrial kitchen appliances. On the left, there are three large, vertical steam ovens with circular doors. Below them is a smaller, box-like unit with a control panel. In the center, there is a large, open industrial sink or draining rack with multiple compartments. To the right, there is a large, cylindrical boiler or pressure cooker with a handle and a pressure gauge. A large, white sign is superimposed over the center of the image, held in place by a paperclip. The sign contains text about an exhibition and the company's name.

**HOTEL
RESTAURANT
& CATERING
EXHIBITION**

OLYMPIA
(NATIONAL HALL)
JANUARY 25th
- FEBRUARY 3rd
1950

Promoted by
CATERER & HOTEL REVIEW

*Call and see us at
Stand 181
(Gallery)*

**R. & A. MAIN LIMITED
LONDON AND FALKIRK**

Cooking and Service Apparatus by **MAIN**

GAS and STEAM

R. & A. MAIN LIMITED
Gothic Works, Edmonton, London, N.18
and Gothic Works, Falkirk

NEW WALLS

Sprayed LIMPET ASBESTOS



COUNCIL CHAMBER,
BELFAST CITY HALL.

The ceiling illustrated has been treated with Sprayed Limpet Asbestos to reduce reverberation, and shows the excellent finish which can be obtained by this method of acoustic treatment.

Sprayed Limpet Asbestos is used wherever a Sound Absorbent Surface is required, and because of its Fire-proof and Vermin-proof qualities, it is especially suitable for use in Hospitals, Offices, Swimming Baths, and in other places where reverberation is excessive.

Newalls Sprayed Limpet Asbestos is also widely used for Acoustic Correction in Cinemas, Churches, and other Auditoria.

Newalls Insulation Co. Ltd., maintain a fully equipped Sound Laboratory for the investigation of problems connected with the use of Acoustic materials.

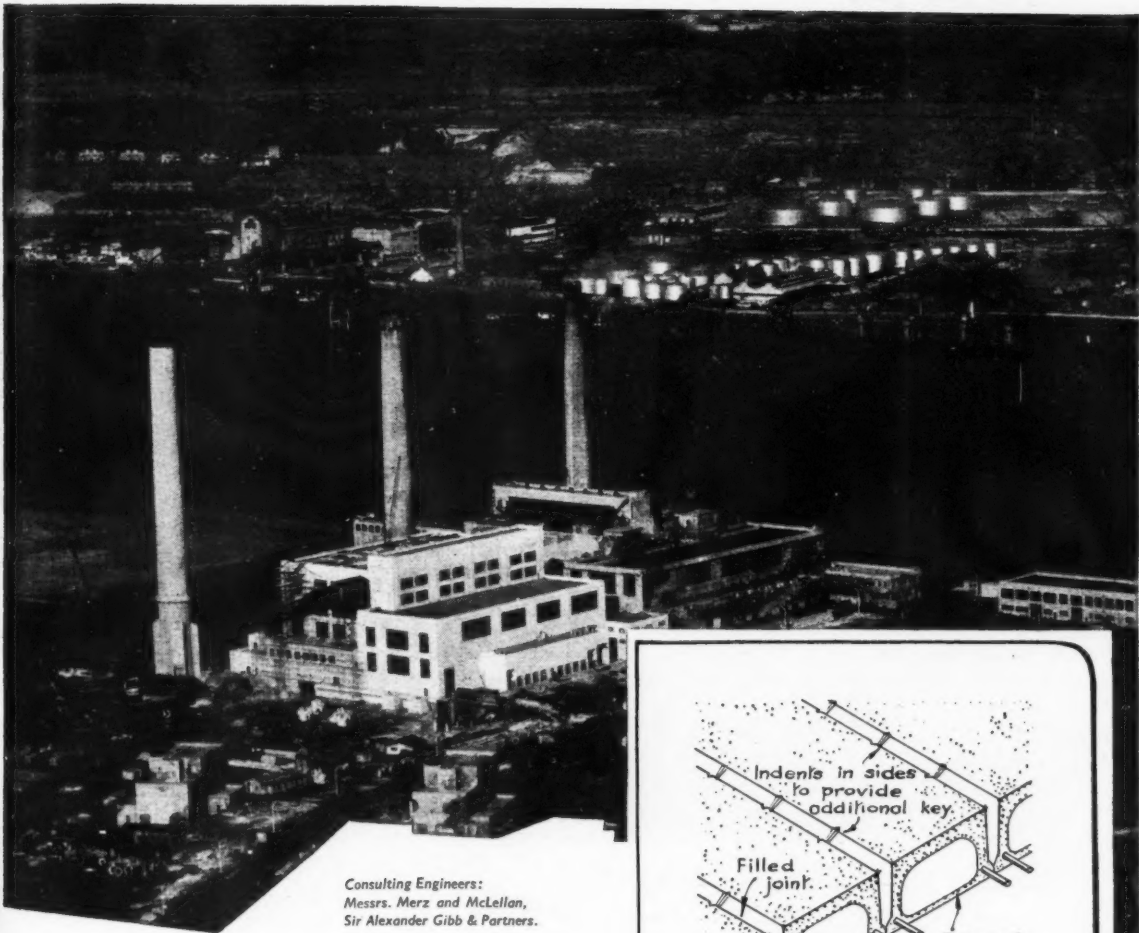


NEW WALLS

Insulation Co. Ltd.

OFFICES & DEPOTS AT: LONDON, GLASGOW, MANCHESTER, NEWCASTLE, BIRMINGHAM, BELFAST, BRISTOL & CARDIFF

HEAD OFFICE: WASHINGTON, COUNTY DURHAM
A MEMBER OF THE TURNER AND NEWALL ORGANISATION.



Littlebrook Power Station, Kent.

Siegart Precast Roofs were carried

out by us to the first part

of this station in 1938 and to

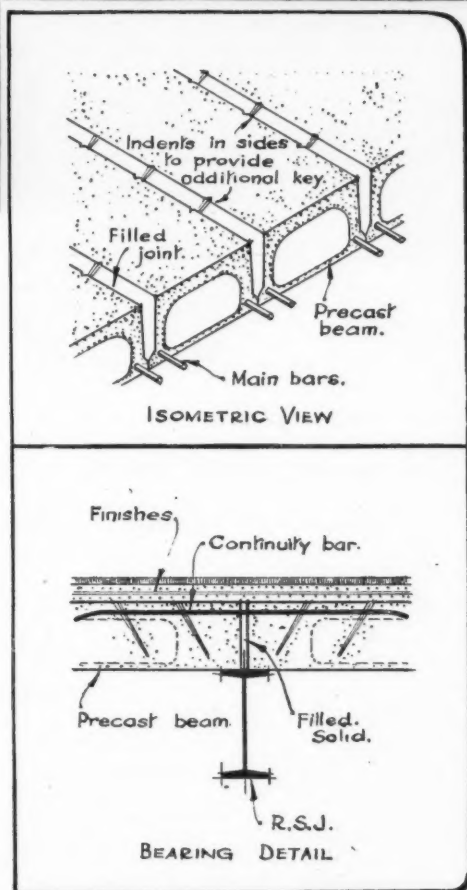
the second section which is

now nearing completion.

SIEGART PRECAST FLOORS

SIEGART FLOOR CO. LTD.

GABLE HOUSE, 40 HIGH STREET, RICKMANSWORTH, HERTS.
Branch Offices at Birmingham, Manchester and Glasgow.



Telephone: Rickmansworth 2268

Works at Croxley Green, Enderby near Leicester, and Paisley

S/1/50

WELDED TUBULAR CONSTRUCTION

-by the originators of tubular scaffolding!



MESSRS. TRUVOX ENGINEERING CO., LTD., FACTORY, WEMBLEY.
Architect : H. S. Jaretzki. Consultant Engineer : F. J. Samuely, D.Eng. (London), M.I.St.E., M.I.C.E., M.I.W.

Welded tubular construction does the job with less steel, skilful design saving up to 60%. Its clean modern appearance pleases the eye of the architect. The simple shapes which arise from the method of construction are easy to protect against corrosion.

SCAFFOLDING (GREAT BRITAIN) LTD

MITCHAM WELDED STRUCTURES DIVISION SURREY

Telephone : MITCHAM 3400 (18 lines)
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Designed and Constructed by S.G.B.



Again available
WARERITE STRUCTURAL BOARD
a material with many uses

- WARERITE VENEERED BOARD, well-known before the war, is back again.
- A structural material in its own right, it has unusual strength and rigidity.
- There are several thicknesses suitable for partitions, bulkheads, flush doors and wall linings.
- Panels and shapes are supplied to customers' specifications.
- WARERITE VENEERED BOARD is ideal where hygiene, ease of cleaning and low maintenance costs are vital.
- Wall surfaces in food shops, kitchens and bathrooms are obvious examples.

LICENCE FREE

Write for further particulars and samples:

WARERITE
TRADE MARK

LAMINATED PLASTICS MADE BY
WARERITE LTD. WARE, HERTS
UNIT OF BAKELITE LIMITED

GRAMS: WARERITE, WARE · PHONE: WARE 502

CRITTALL WINDOWS



HOT-DIP GALVANIZED WINDOWS OF
VARIOUS TYPES ARE SPECIALLY
MADE FOR SCHOOLS & HOSPITALS

THE CRITTALL MANUFACTURING CO. LTD.
BRAINTREE ENGLAND

INDUSTRY

Colour in

BY
VULCAN PRODUCTS LTD
ENGLAND

Vulcan Products have, for many years, played a leading part in promoting the correct colour use of Vulcan materials in factories and on machine tools. Their brochure, "Colour in Industry", produced in 1947, remains one of their standard publications, and a copy will gladly be sent on request.

VULCAN PRODUCTS LIMITED

Specialist Paint Manufacturers

SLOUGH and 24, RYDER ST., ST. JAMES, LONDON, S.W.1. TRAFALGAR 4161 (7 LINES)

Supplied and fixed by **MARLEY** means

free maintenance in good condition for **10 YEARS**

guaranteed against lamination and decay for **50 YEARS**

*Whatever tiles you specify insist
on these guarantees backed by a
Company of standing*



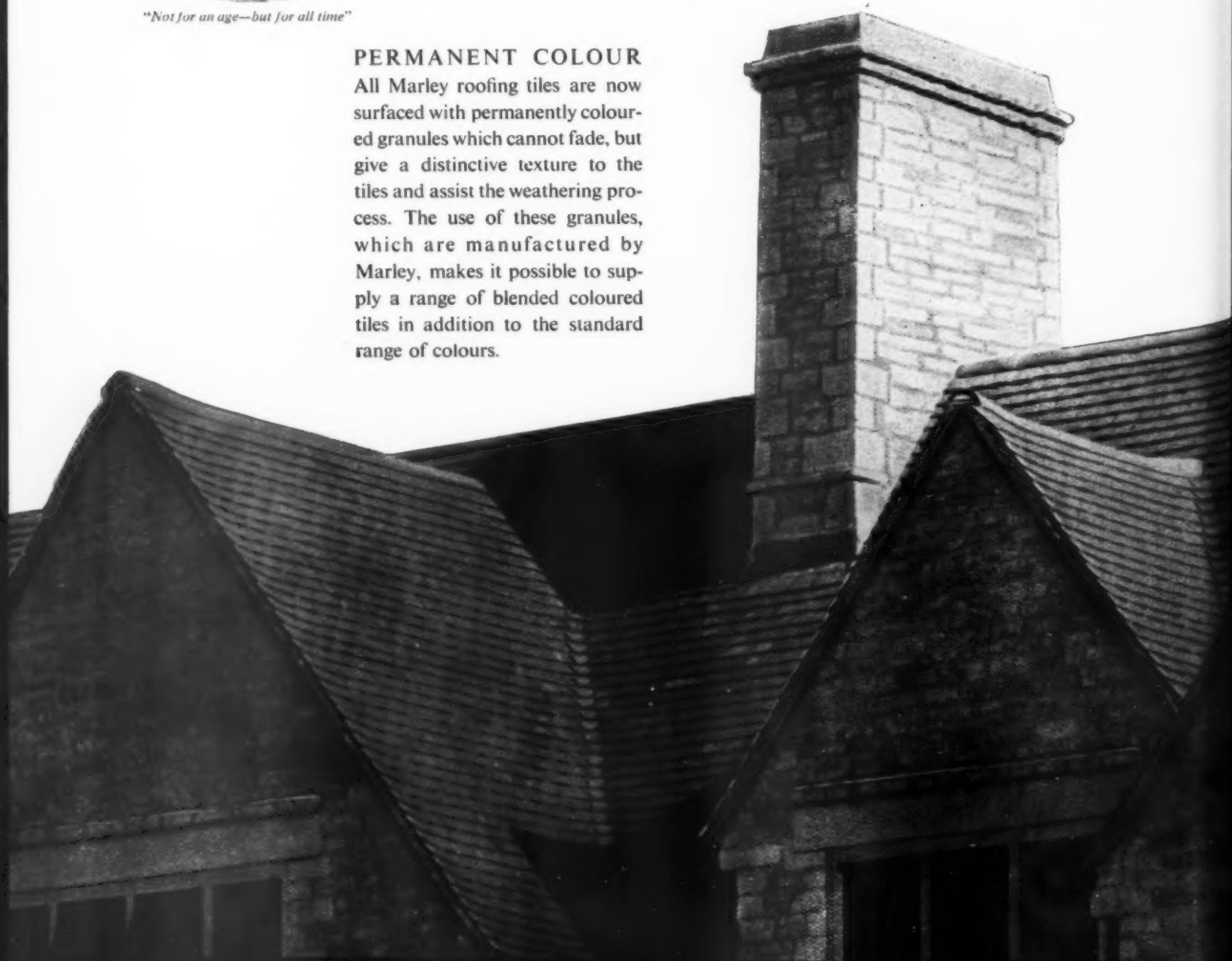
"Not for an age—but for all time"

THE MARLEY TILE CO · LTD · RIVERHEAD · SEVENOAKS · KENT

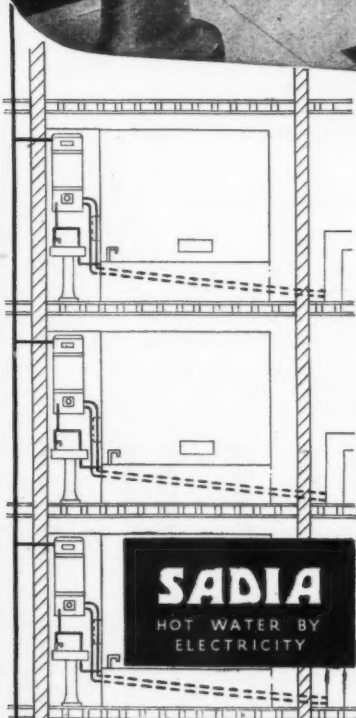
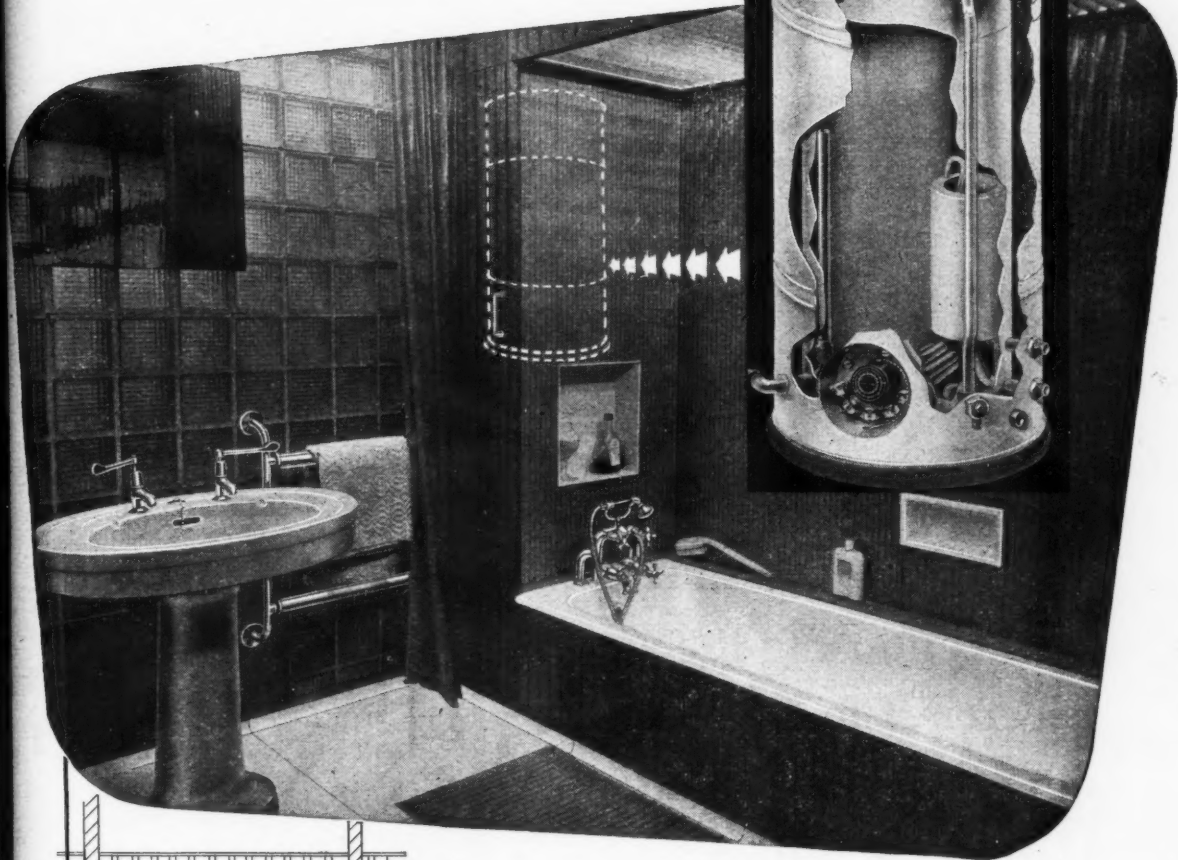
Telephone : Sevenoaks 2251

PERMANENT COLOUR

All Marley roofing tiles are now surfaced with permanently coloured granules which cannot fade, but give a distinctive texture to the tiles and assist the weathering process. The use of these granules, which are manufactured by Marley, makes it possible to supply a range of blended coloured tiles in addition to the standard range of colours.



Designed for fuel economy . . .



THE COAL-ELECTRIC SADIA WATER HEATER combines a storage tank for a solid fuel boiler and an electric water heater

DUAL HEATING . . . *In winter* the hot water is provided from the solid fuel boiler . . . *in summer* it is heated automatically by electricity . . . the house or flat remains *cool* in summer and *warm* in winter.

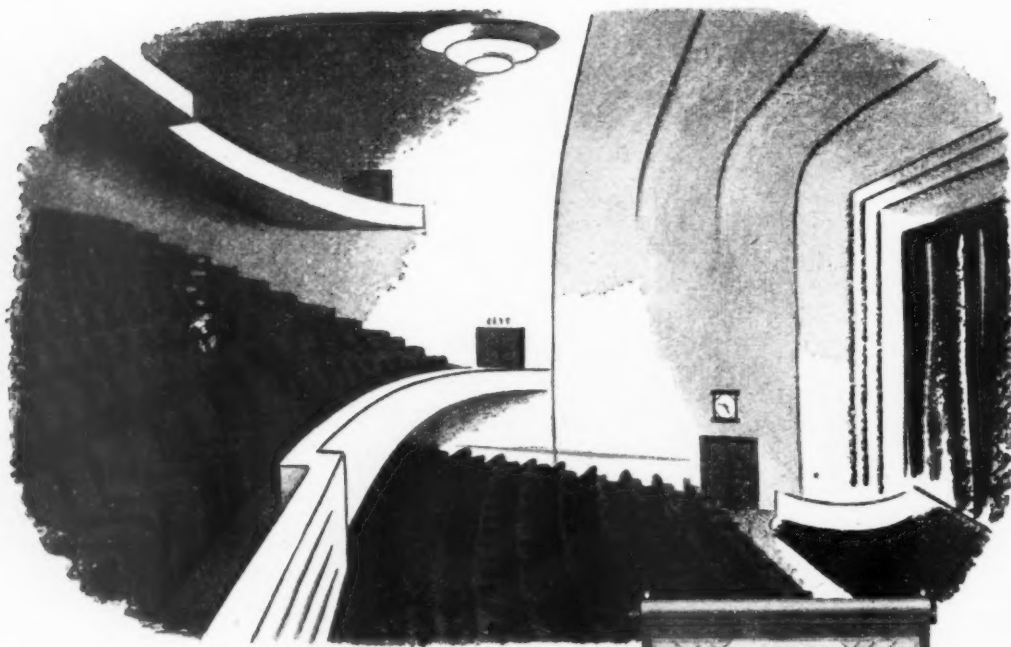
BOILER PERFORMANCE IMPROVED . . . The effectiveness of the solid fuel boiler is increased by the calorifier which prevents fur deposits inside the boiler . . . the inlet and outlet are scientifically designed to reduce heat losses in the pipes . . . the tank is insulated with regranulated cork and the heated water remains hot for the morning bath even when the fire is allowed to die out in the evening.

SAVING IN INSTALLATION COSTS . . . Separate cold water feed pipes and header tanks are not required as the calorifier is self-filling and self-venting . . . the built-in cold water storage tank obviates the running of expansion pipes . . . in blocks of flats only one common down-service pipe is required for cold water.

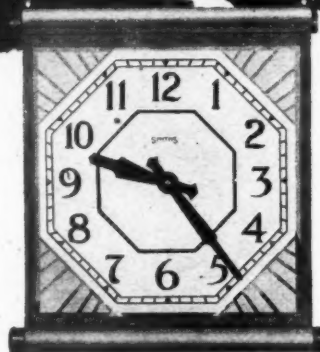
May we send fuller details of the Coal-Electric Sadia Water Heater with ball tank?

AIDAS ELECTRIC LTD., SADIA WORKS, ROWDELL ROAD, NORTHOLT, MIDDLESEX
SCOTTISH AGENTS: W. BROWN & CO. (ENGINEERS, LTD.), 89 DOUGLAS STREET, GLASGOW C.2,
DISTRIBUTORS FOR SOUTH AFRICA: SADIA WATER HEATERS (PTY.) LTD., 5, NEWTON STREET,
VILLAGE MAIN, JOHANNESBURG.

TIME TO THINK ★ ABOUT SMITHS



**...on choosing the right
Electric Clock for the
new Cinema, Theatre
Hall or Pavilion.**



In the wide range of Smiths 'Sectric' Interior Wall Clocks, an ideal choice for all types of public assembly buildings is the Smiths 'Internalite', which has diffused lighting and is visible throughout an entire auditorium.

SMITHS, the largest manufacturers of Clocks,

Watches and Precision Instruments in the world, are always ready to help you plan unified and efficient timekeeping services for indoor and outdoor use. Write to Dept. A. A. Smiths English Clocks Ltd. 179, Great Portland Street, W.1. for Architects Data Sheets giving full details.

SMITHS

SMITHS SUPPLY THE WORLD WITH TIME

SMITHS ENGLISH CLOCKS LTD., SECTRIC HOUSE, LONDON, N.W.2. The Clock & Watch Division of S. Smith & Sons (England) Ltd.

Houses at Bath Road, Southsea. Super "Ribmet" used for the concrete floors. Architect: Mr. A. G. Goodair, A.R.I.B.A., Southsea. Builder: Mr. E. B. Greenwood, Southsea.

COMBINED SHUTTERING AND REINFORCEMENT?



LET EXPANDED METAL DO THE JOB!



As a combined shuttering and reinforcement for spans up to 15 ft. Super "Ribmet" is efficient and economical in the construction of concrete floors, roofs and similar decking. Its use gives the advantages of monolithic construction without the expense of preparing, erecting

and dismantling close-boarded shuttering. No waste of steel because Super "Ribmet" replaces reinforcing rods and fabric.

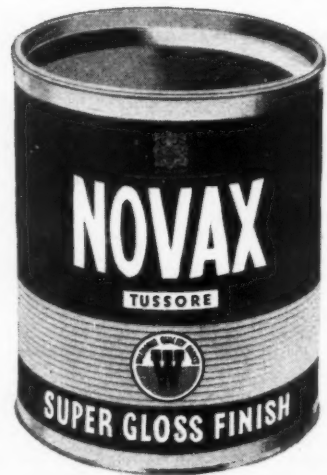
Super "Ribmet" is 'made to fit the job' and complete technical information to suit your requirements will be supplied upon request.

The
**EXPANDED METAL
COMPANY LTD.,**
Burwood House, Caxton St., S.W.1
Whitehall 1736

STRANTON WORKS, WEST HARTLEPOOL,
HARTLEPOOLS 2194

ALSO AT: ABERDEEN, BELFAST, BIRMINGHAM,
CAMBRIDGE, CARDIFF, EXETER, GLASGOW,
LEEDS, MANCHESTER.

EXPANDED METAL 'Expamet' PRODUCTS

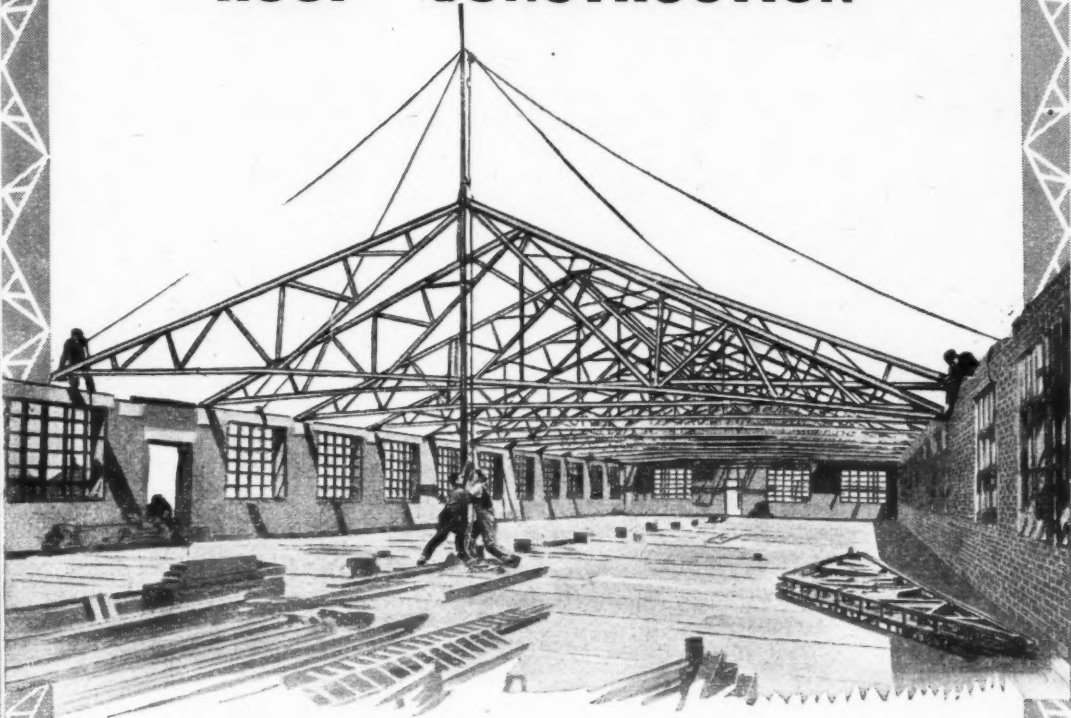


Quality Paints by Walpamur



THE WALPAMUR CO LTD · DARWEN · LANCs

PIONEERS OF ALUMINIUM ALLOY ROOF CONSTRUCTION



S·M·D

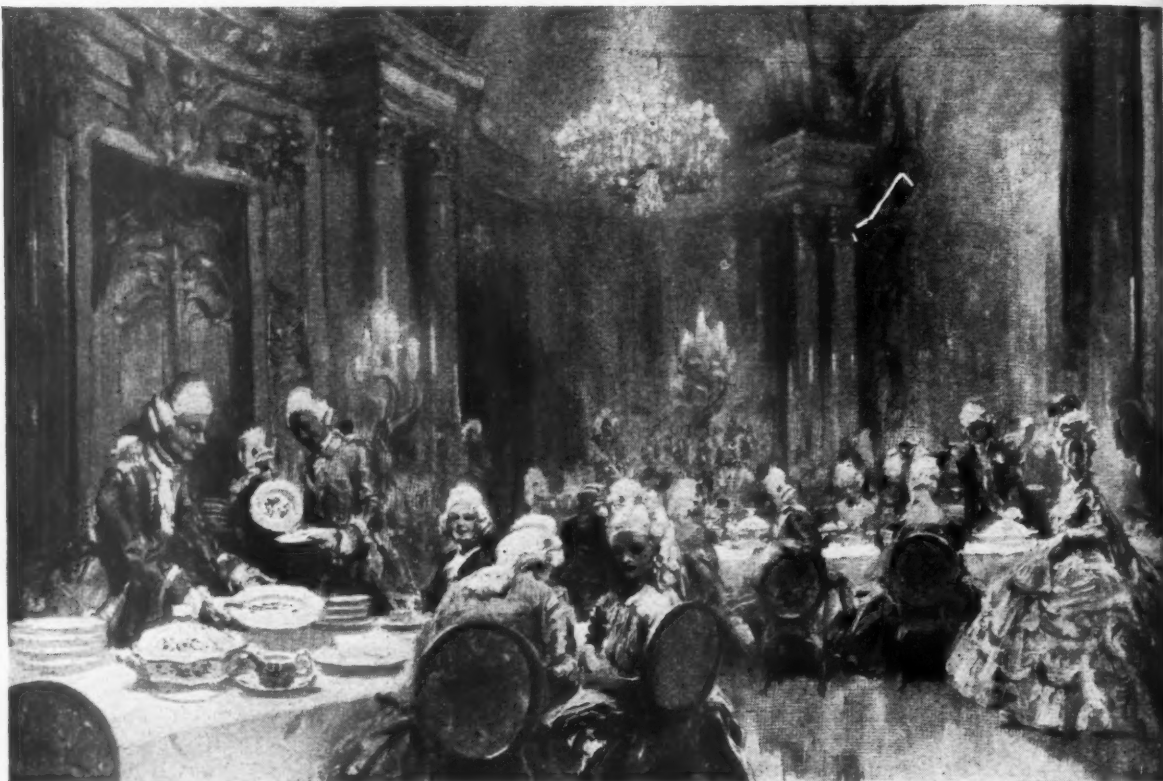
STRUCTURAL & MECHANICAL DEVELOPMENT ENGINEERS LTD

BUCKINGHAM AVENUE, SLOUGH, BUCKS, ENGLAND Telephone SLOUGH 23212

IN ASSOCIATION WITH **ALMIN LIMITED** FARNHAM ROYAL BUCKS

Our illustration shows a 53 ft. span truss being erected by hand
PLEASE WRITE FOR THE NEW ROOF CONSTRUCTION BROCHURE

POTTERY THROUGH THE AGES · NO. 21



Specially drawn by Gordon Nicoll, R.I.

ENGLISH TABLEWARES ACHIEVE WORLD FAME

Thomas Whieldon had a great influence upon English ceramic history; Josiah Wedgwood was his partner for five years, Josiah Spode and William Copeland were among his apprentices. In Whieldon's efforts to produce tableware that could compete with imported Chinese and European porcelain, he developed an improved lead-glazed earthenware "body".

Josiah Wedgwood had a unique combination of gifts. A far-seeing business man and pioneer of modern industrial methods of production, he was the first great potter to apply the scientific principles of physics and chemistry to all stages of manufacture—from the preparation of the raw clay to the final firing. He had, moreover, an innate appreciation of that aspect of good design now known as "fitness for purpose". Classical art and the work of the great Adams brothers influenced him greatly and his medallions, cameos, vases and other productions in the

classical tradition, many designed by Flaxman, are especially famous. His greatest contribution to English ceramics was, however, the introduction of a cream-glazed earthenware "body"—known as Queen's Ware. Unlike porcelain, it was not subject to frequent distortion and heavy losses in firing; and it was much less pervious than delftware. Within a few decades improved types of fine earthenware—made by a growing number of English potters—had driven delft from the market and were a serious rival to porcelain.

China clay and china stone were discovered in Cornwall in 1768 by a chemist named Cookworthy. The addition of these materials to the standard mix greatly improved the quality and appearance of English earthenware. A new economical method of printing designs on glazed earthenware led to a great increase in production. Underglaze printing also, especially underglaze blue—such as the

famous "Willow Pattern"—increased the popularity of English wares, especially in the United States; by 1850, Great Britain was the leading world supplier of high quality ceramic wares.

In the field of porcelain, Josiah Spode II perfected a new kind of china about the year 1799. This became known as "bone china", its distinctive feature being the addition of a large proportion of calcined bone-ash to the china clay and feldspar in the ceramic "body". It combined a delicate translucency, unmatched by any other material, with great strength and resistance to breakage; and it lent itself to the use of a range of delicate and subtle colours. Before long, English china—like English earthenware—had become supreme in its own field. In ordinary homes and in royal palaces throughout the world, British tablewares were henceforth recognised without question as the highest achievements of the potter's art.

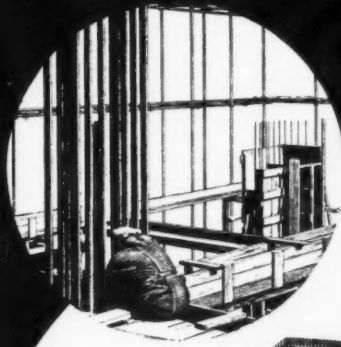


DOULTON & CO. LIMITED

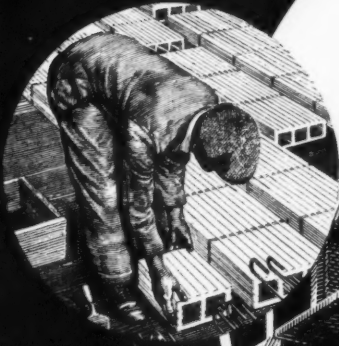
DOULTON HOUSE · ALBERT EMBANKMENT · LONDON · S.E.1

Makers of Fine China and Earthenware, Porcelain Insulators, Laboratory Porcelain, Chemical Stoneware, Ceramic Filters, Sanitary Earthenware and Fireclay, Stoneware Pipes and Conduits, etc.
WORKS: BURSLEM, DUDLEY, ERITH, HANLEY, LAMBETH, STOKE-ON-TRENT, TAMWORTH.

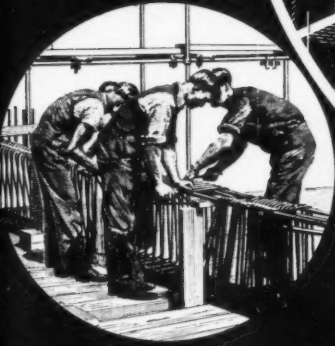
Reinforcement and shuttering



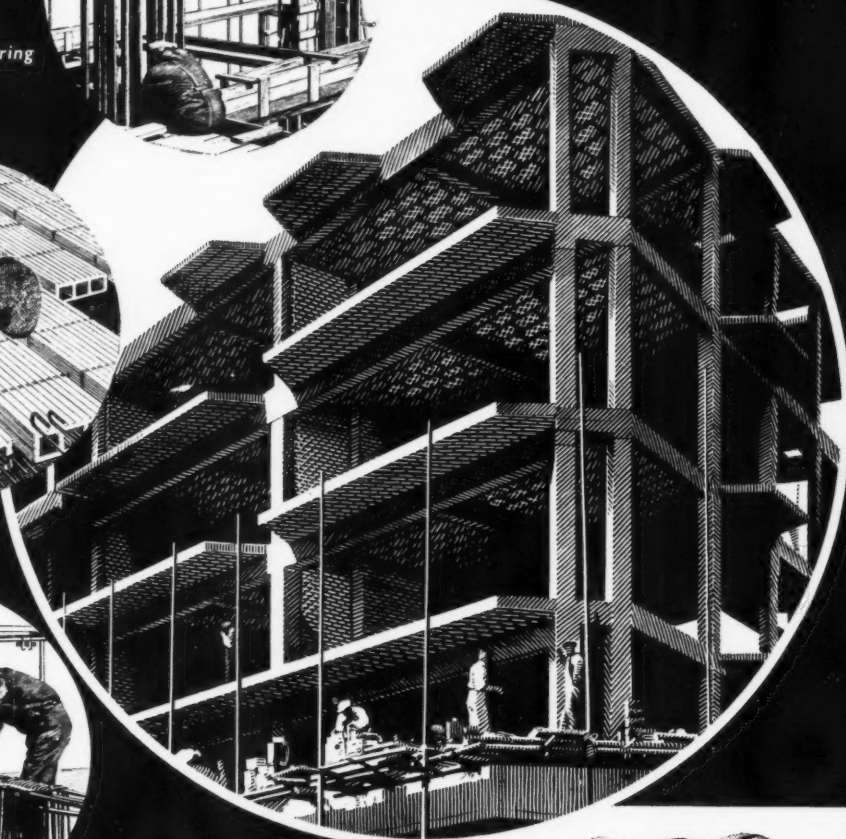
Hollow-block
floor laying



Assembling beam reinforcement



Reinforced concrete building
with hollow block flooring



BRADFORDS

FOR
CONCRETE DESIGN & CONSTRUCTION

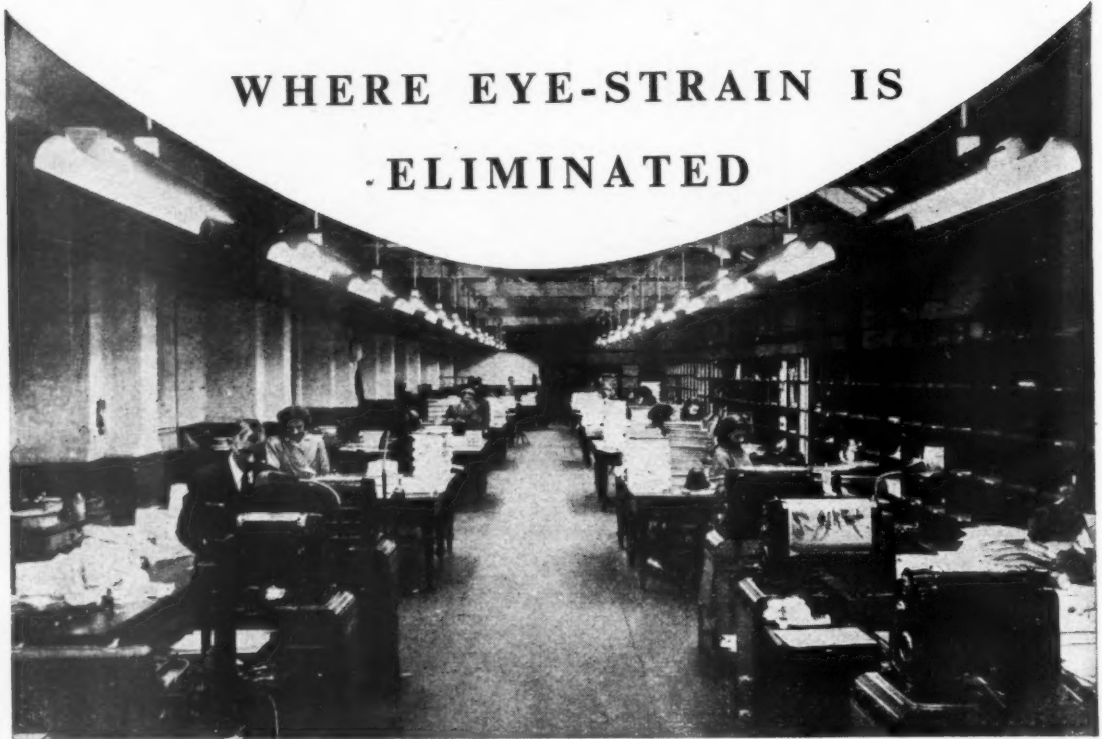
SPECIALITIES:

PRE-CAST FLOOR UNITS
HOLLOW BLOCK FLOORS
PRE-CAST CONCRETE UNITS



Loading precast units for transport
to the site

F. BRADFORD & CO. LTD · ANGEL RD · LONDON N18 (Tottenham 4267) & 6 LIVERY ST · BIRMINGHAM (Central 2850)



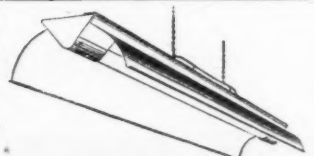
208

In their Kings Cross Duplicating Room, where the eye has to be constantly alert to detect flaws and errors, British Railways have installed ATLAS Fluorescent Lighting. Not only is this lighting restful to the eye, it is extremely economical, and in the wide ATLAS range of fittings the architect is furnished with designs that harmonize with any decorative scheme — industrial, commercial or domestic. Fully descriptive and illustrated literature is at your call.

ATLAS Fluorescent has many exclusive technical features which simplify installation and maintenance, and effect economy, for example, the ATLAS 'Quickstart' Unit which gives immediate illumination, maintains the light during voltage variations, and lengthens the life of the tubes.

Our *LIGHTING ADVISORY SERVICE* is ready to help you in planning any lighting installation.

THE ATLAS FE/0081 UNIT used in the above illustration, gives a big concentration of light on the working plane, while sparing enough to brighten the ceiling and walls. The reflectors can be removed quickly for cleaning without disturbing any other part of the fitting.



ATLAS FLUORESCENT

in 'Daylight' 'Northlight' 'Warm White' and 'Peach'

THORN ELECTRICAL INDUSTRIES LTD., 105-109 JUDD ST., LONDON, W.C.1 TELEPHONE: EUSTON 1183

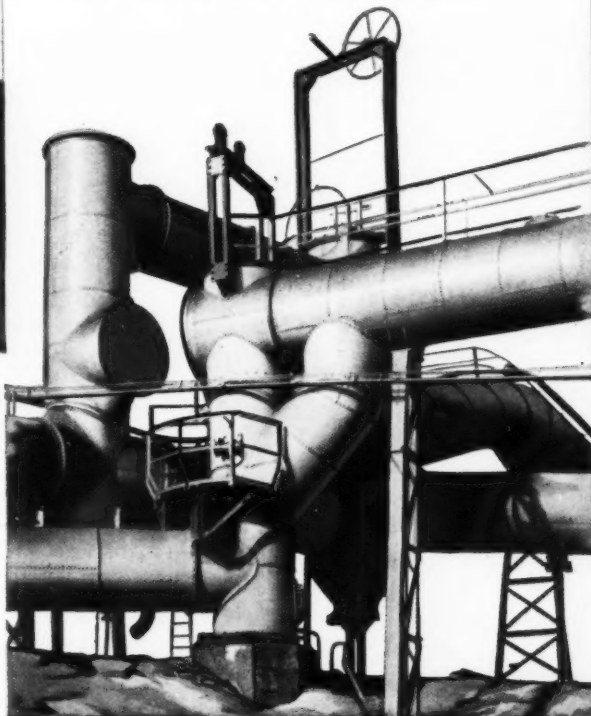


THE VERSATILITY OF STEELWORK

Contrasts in steelwork

Steelwork, the most adaptable structural medium in the world for buildings, is used for all manner of other purposes, of which two examples are illustrated. The first is a slender-looking observation tower—one of several made for surveying purposes. Each tower consists of two distinct but concentric structures, so that the movement of the observer—carried upon one structure—does not disturb the special theodolite upon the other. Each dismantled member is light enough to be handled easily by one man.

The lower photograph, of steel ducting for conveying coke-oven gas, shows the complex three-dimensional shapes into which steel plate can be manipulated.



B.C.S.A

BRITISH CONSTRUCTIONAL STEELWORK
ASSOCIATION,
ARTILLERY HOUSE, WESTMINSTER, S.W.1



THE ECONOMICS OF PAINTING

In maintenance painting, cost of application far outweighs cost of material. The paint finish will last longer if high-quality materials are used on properly prepared surfaces, and eventual repainting will require less preparation, because the paint film, though worn, will still be intact. Maintenance painting should be costed *per annum* and not *per job*. Then the economy of high-quality paint and first-class workmanship is apparent.

A booklet, *The Economics of Maintenance Painting*, deals with this subject in detail. Architects, builders and estate managers are invited to apply for a copy to the nearest I.C.I. Sales Office, or to



IMPERIAL CHEMICAL INDUSTRIES LIMITED
PAINTS DIVISION
MAKERS OF

SLOUGH, BUCKS.

DULUX



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By Appointment



Suppliers of Ferro-Concrete Work

Throwing new light on an old problem



The Girlings' 'Magna Light' brochure, just off the press, fully illustrates the possibilities and applications by technical diagrams and photographs of this efficient method of dealing with roof, pavement and window lighting. A post-card will bring you a copy by return.

ENGINEERED to give a pleasing diffusion of light, Girlings' pre-cast 'Magna Light' lenses provide architects, engineers and contractors with a brilliant solution to their roof and pavement lighting problems. Experience has shown that lights for this purpose are more efficient when pre-cast under factory conditions and control, although your particular design problem may make *in-situ* construction desirable. A greater brilliance is given to the appearance of Girlings' 'Magna Light' lenses by treating their edges with a light reflecting compound, and combined with the light-diffusing effect of the pyramid-patterned soffite, a luminosity is achieved, unobtainable by any other means.

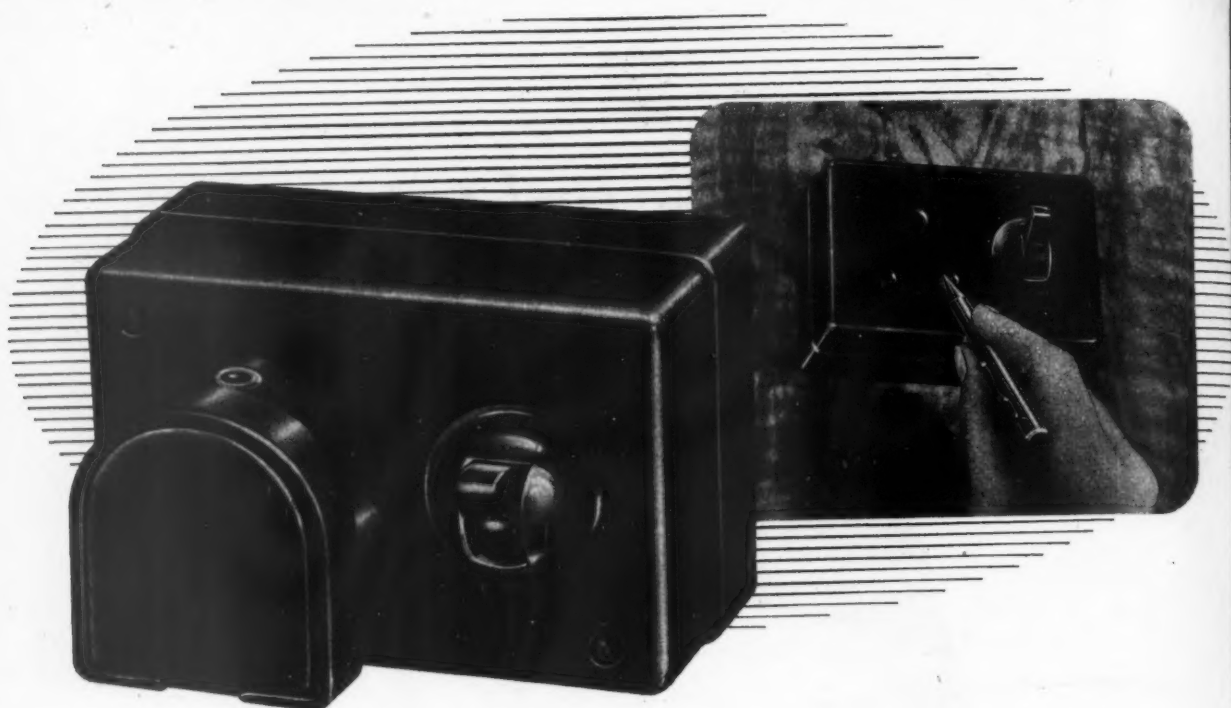
GIRLINGS' MAGNA-LIGHT ROOF AND PAVEMENT LIGHTS

GIRLINGS FERRO-CONCRETE CO. LTD.

GREAT WEST ROAD, FELTHAM, MIDDX.
HOUNslow 1158 (3 lines).

Head Office: ROTHWELL, LEEDS.
Rothwell 3174 (3 lines)

SOUTHBANK RD., KIRKINTILLOCH, GLASGOW
Kirkintilloch 2244 (2 lines).



*The **TEMCO** shutter makes others out of date because...*

- ★ the phase tubes cannot be exposed by pushing the shutter out of position with a pointed instrument.
- ★ the insertion of a pencil in the earth does not operate the shutter.
- ★ to operate the TEMCO shutter, the plug must be properly inserted.

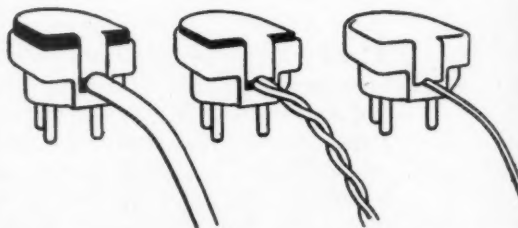
TEMCO switch sockets are available in surface and flush types, 5 amp., and 15 amp. brown and white. Suitable for use on A.C. or D.C.

They comply with B.S.S. 816 and B.S.S. 546.

Brief specification:—Porcelain base; quick make and break switch action; moulded dolly has no metal inserts; ringed contact tubes; recessed back with knock-outs.

ANOTHER EXCLUSIVE TEMCO FEATURE... the variable cord grip.

TEMCO Plugs adjust themselves automatically to suit varying thicknesses of flex. There are no loose parts.



Write for CATALOGUE Series 2 OF TEMCO ELECTRICAL WIRING ACCESSORIES

Manufactured by:

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37 UPPER BERKELEY STREET, LONDON, W.1. Tel: Paddington 1867-8-9

MODERN HOUSING ESTATE



PETERBOROUGH CORPORATION HOUSING SCHEME, PETERBOROUGH, NORTHANTS.
(BY KIND PERMISSION OF F. J. SMITH, ESQ., CITY ENGINEER AND SURVEYOR)

Some 400 houses on this modern estate are each fitted with a pair of sliding doors dividing the dining room and lounge, enabling these two rooms to be opened up into one large room for entertaining, etc., and allowing sunshine into opposite aspects of the houses simultaneously.

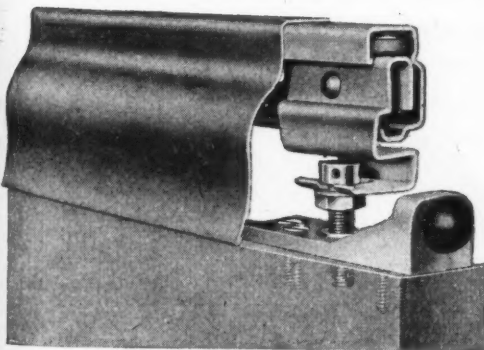
After comparison and trial, the fittings chosen for this scheme were :—

“ESTATE”

SLIDING DOOR GEAR

(Supplied through Messrs. Hayward & Tourell, Ltd., Wholesale Ironmongers, North Street, Peterborough)

The salient features governing this choice are summarized thus :—



- | | |
|--------------------|--------------------|
| ★ Silent operation | ★ Neat appearance |
| ★ Inexpensive | ★ No maintenance |
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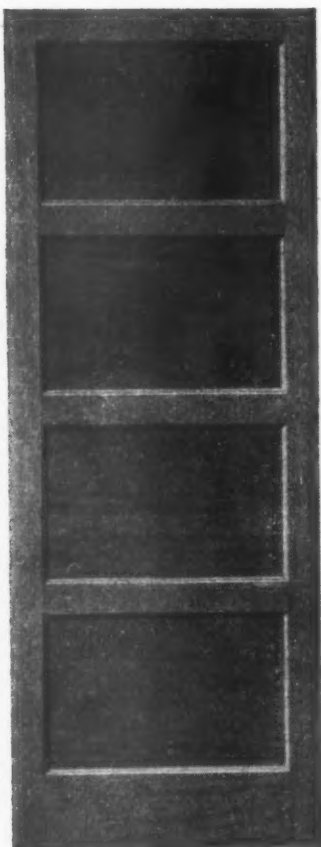
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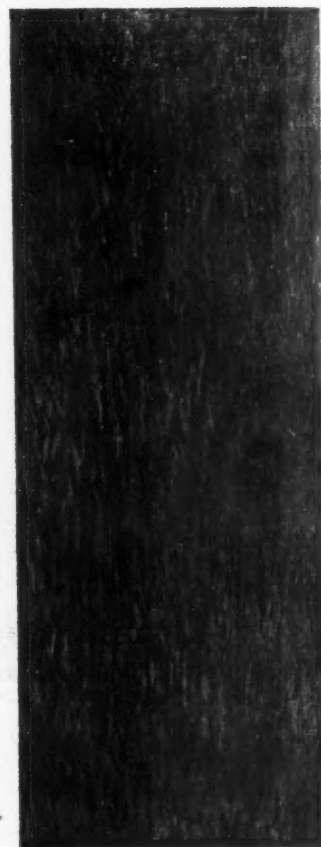
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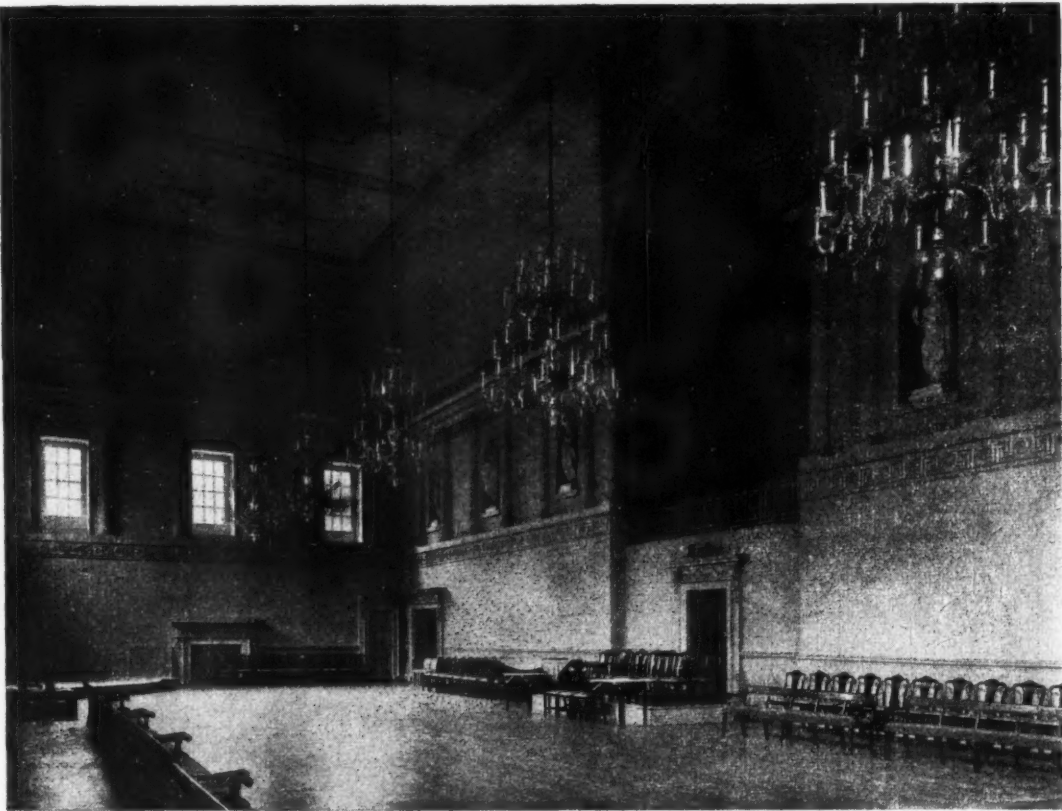
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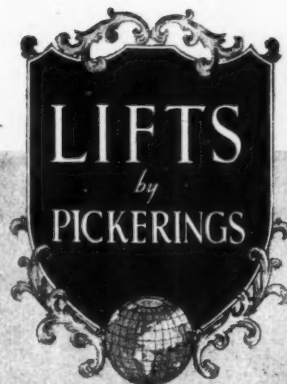
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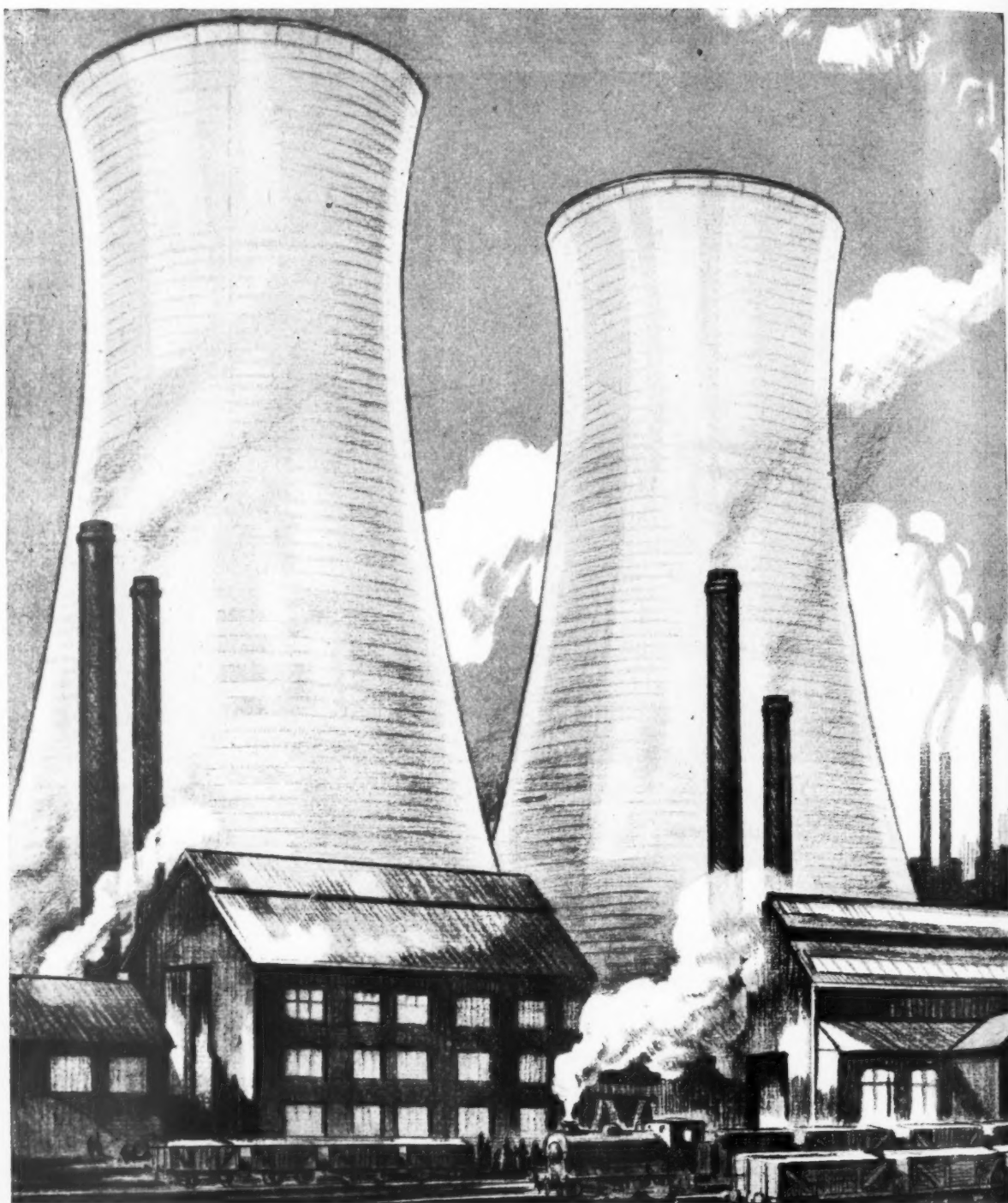


The Assembly Rooms, Bath

When the celebrated Assembly Rooms at Bath, recently damaged by enemy action, were renovated prior to the war the buildings were equipped with lifts by Pickerings. The illustration shows the Ballroom, with minstrels' gallery.



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Papin...

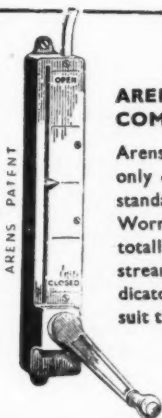
...was on to something...

The first engine to have a piston was built in 1690 by Denis Papin, a French physicist. It was so far ahead of its time in fact, that 100 years later Napoleon considered steam-engines, based on Papin's designs, too revolutionary to be of military value.

Fortunately, to-day, good ideas do not have to struggle so long for recognition. The scientifically-trained modern architect plans for ample ventilation and extensive window areas, leaving problems in window control to Arens. The smooth efficiency of Arens Remote Controls and their ease and simplicity of operation accord with the advanced principles of modern building. Their neat, compact appearance harmonises with light, airy interiors. The range of Arens Controls covers most modern architectural needs, but a wide experience of dealing with individual requirements in window control equips Arens to tackle new problems as they appear.

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Arens compact gear box requires only one-third of the space of a standard worm gear operator. Worm and sliding members are totally enclosed. Has a pleasant streamlined appearance. An indicator which can be engraved to suit the customer is included.



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Covered by Patent

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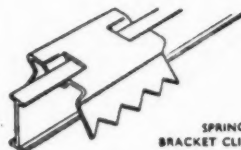
SPECIFY 'Rufflette' CURTAIN SUSPENSION SYSTEMS

BRAND

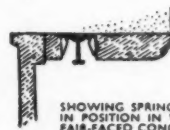
'Rufflette' brand RECESSED CURTAIN RUNWAY

'Rufflette' brand Recessed Curtain Runway is a permanent and integral part of building construction. It is inexpensive and simple to fit into wood, plastered or fair-faced concrete lintels. The runway is held rigidly in position by a patent spring clip without screws and is a concealed and a permanent fitting.

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SHOWING SPRING BRACKET
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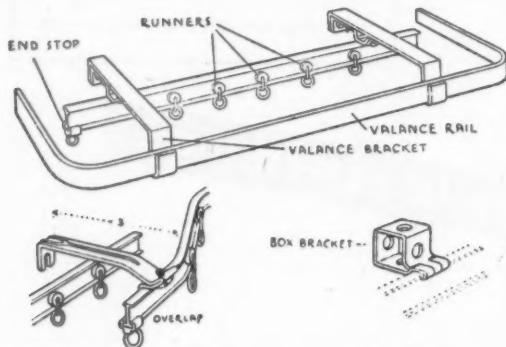
FOR PLASTERED CONCRETE LINTELS



STEEL CHANNEL
STRIP FOR PLASTERED
CONCRETE.



SHOWING STEEL CHANNEL
STRIP IN POSITION IN
PLASTERED CONCRETE LINTEL.



'Rufflette' brand

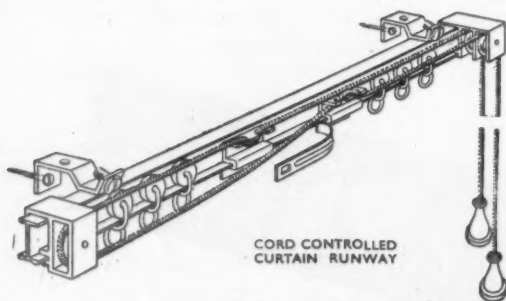
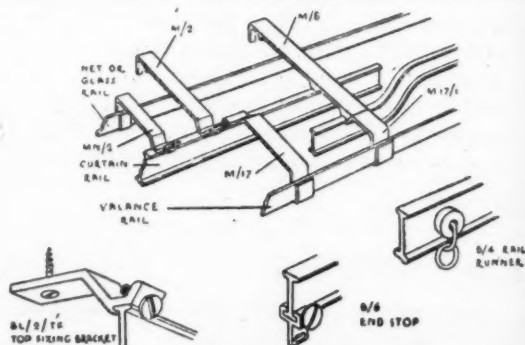
B/L CURTAIN RUNWAY

This runway has been specially designed for wood frame windows. The construction is of heavy extruded brass, with top or face fixing brackets made specially for quick fitting and is therefore a valuable time-saving device. For strength, durability and easy running specify 'Rufflette' brand B/L Curtain Runway.

'Rufflette' brand

M SERIES RUNWAY FOR METAL WINDOWS

The special feature of this runway is the use of extension supports from the main runway for the valance and net curtain rails; this reduces the number of main supports needed and minimises drilling. 'Rufflette' brand M Series Curtain Runway can be fitted to any shape window straight or curved. The 'Rufflette' M Series Curtain Runway is specially designed for quick and easy fitting to metal windows.



CORD CONTROLLED
CURTAIN RUNWAY

'Rufflette' brand

CORD CONTROLLED CURTAIN RUNWAY

For smooth and trouble-free operation the 'Rufflette' brand Cord Controlled Curtain Runway is recommended for use in large establishments such as hotels, residences and offices where curtains receive constant usage. It is of simple construction and quickly fitted without dismantling. 'Rufflette' brand Cord Controlled Curtain Runway will fit all straight windows.

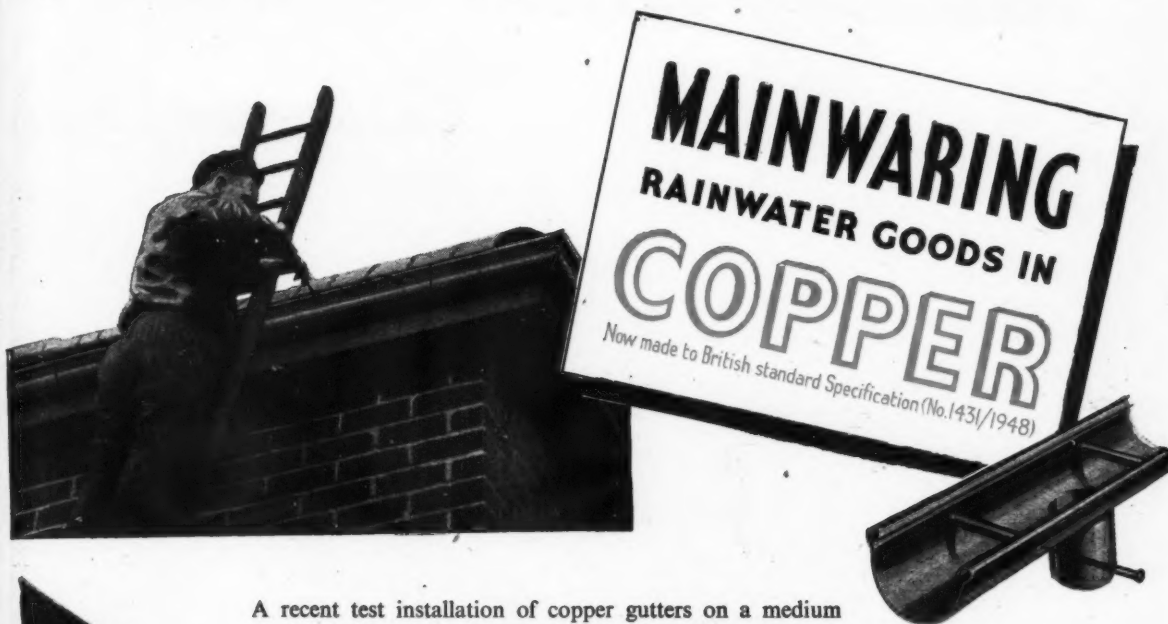
Architect's Journal: the following Information Sheets are available and will be sent on request to manufacturers.
SHEET 44 D.1. ('RUFFLETTE' RECESSED RUNWAY). SHEET 44 D.2. ('RUFFLETTE' B/L and M Type Runways).

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(Below) A complete bay section which was prefabricated on the ground and erected complete.

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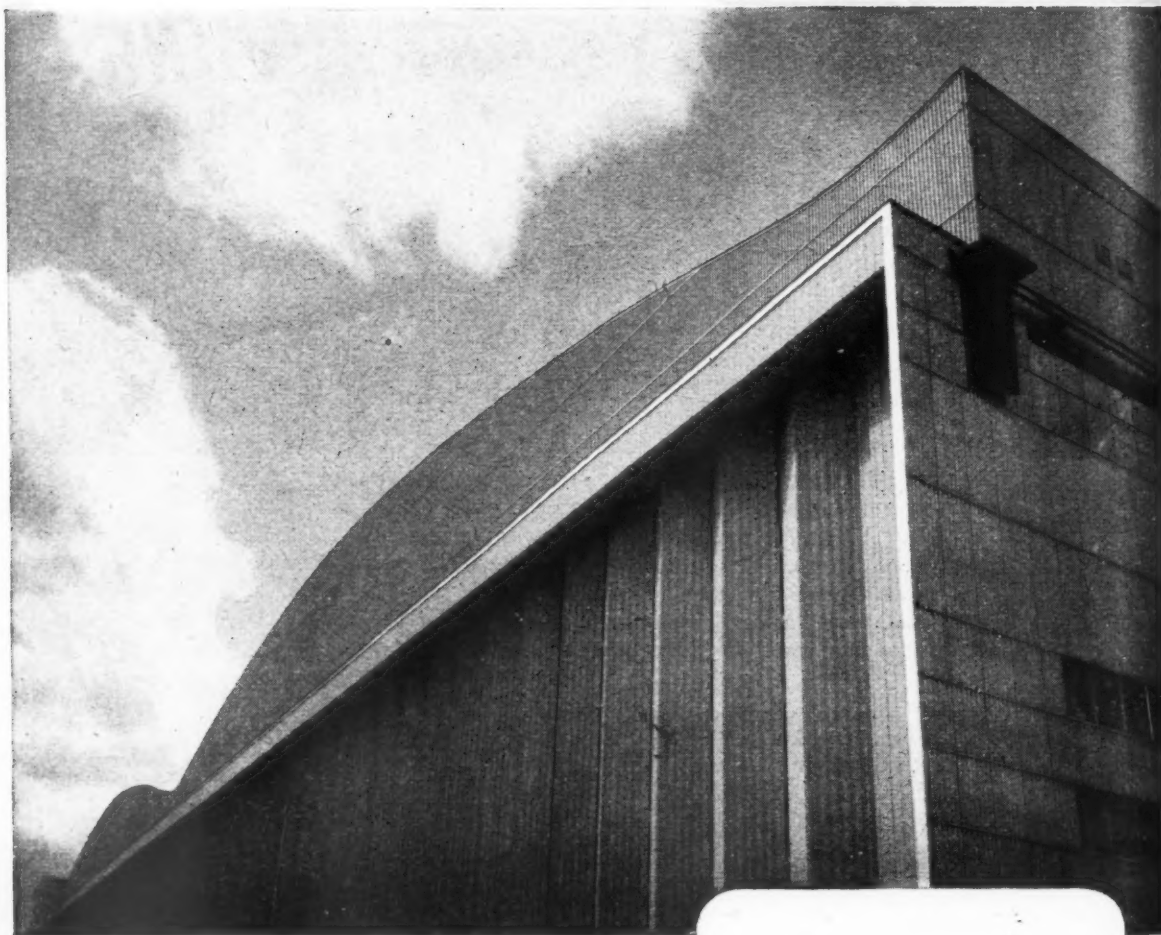
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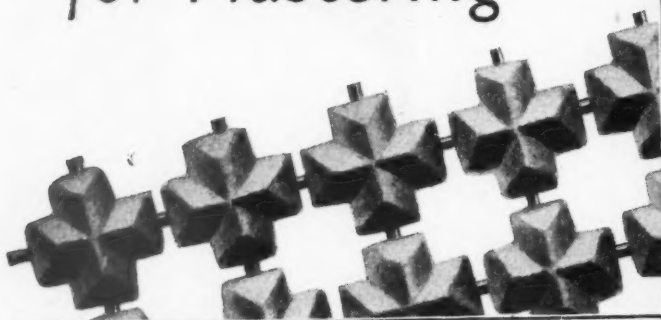
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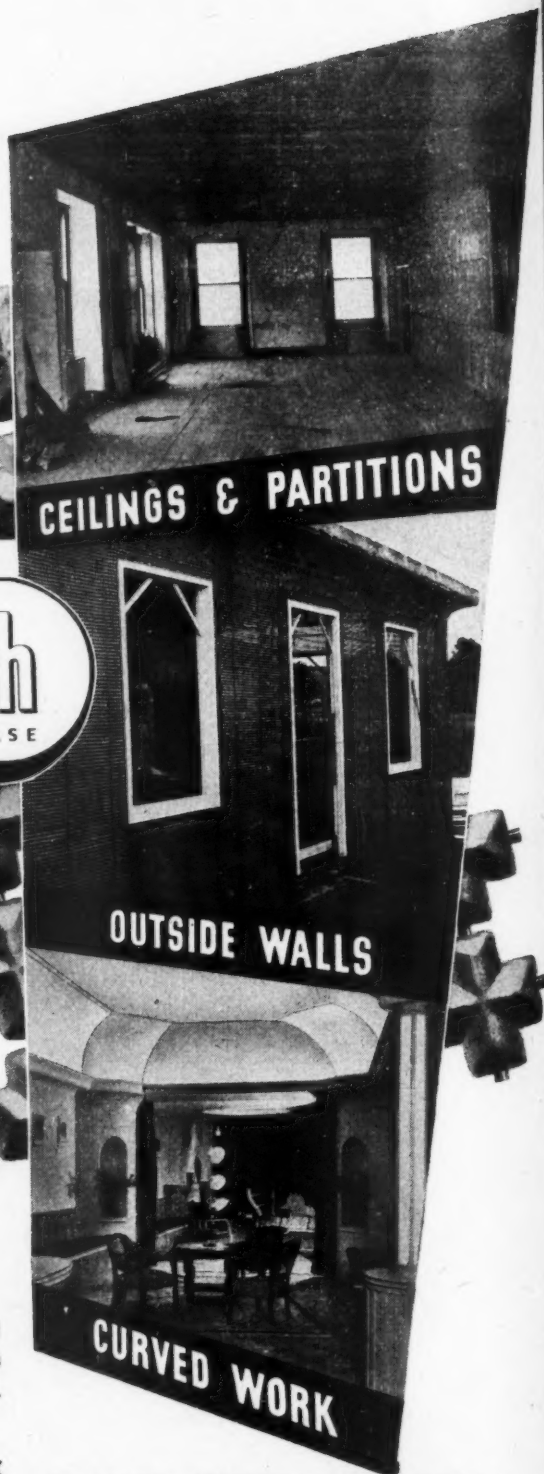
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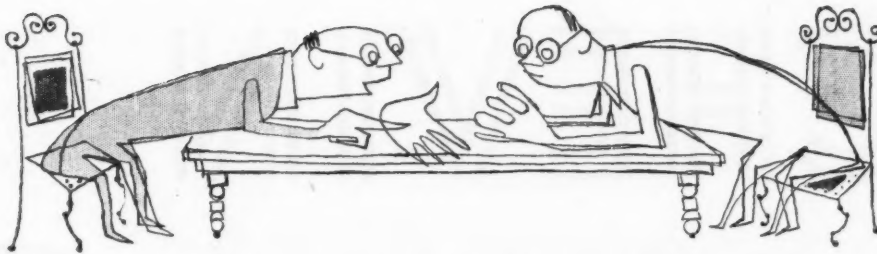
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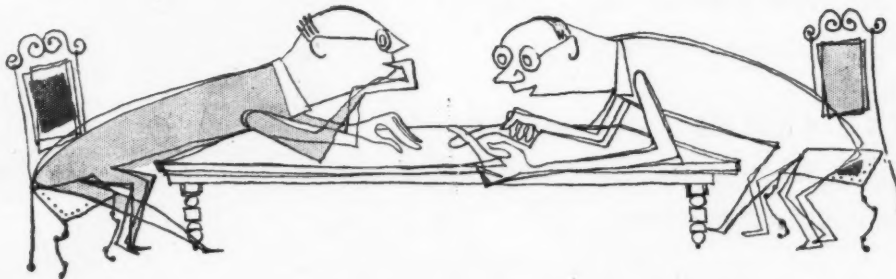
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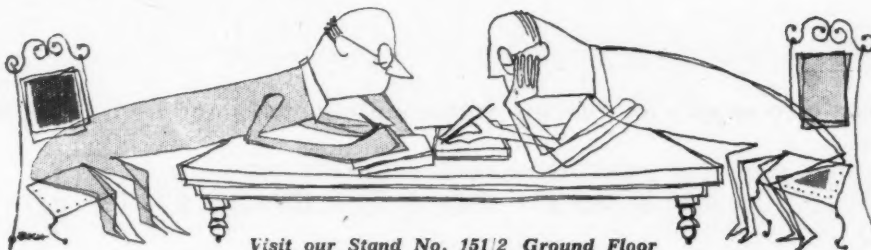
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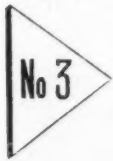
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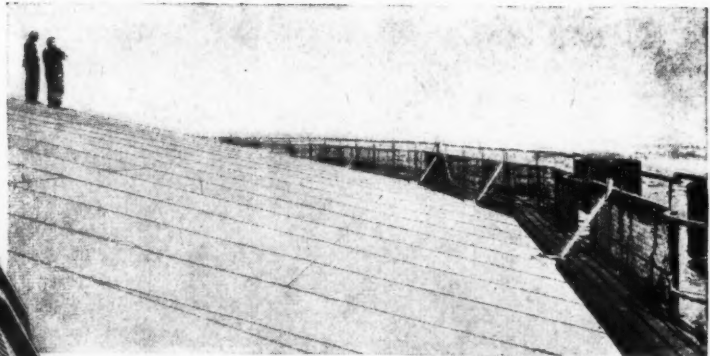
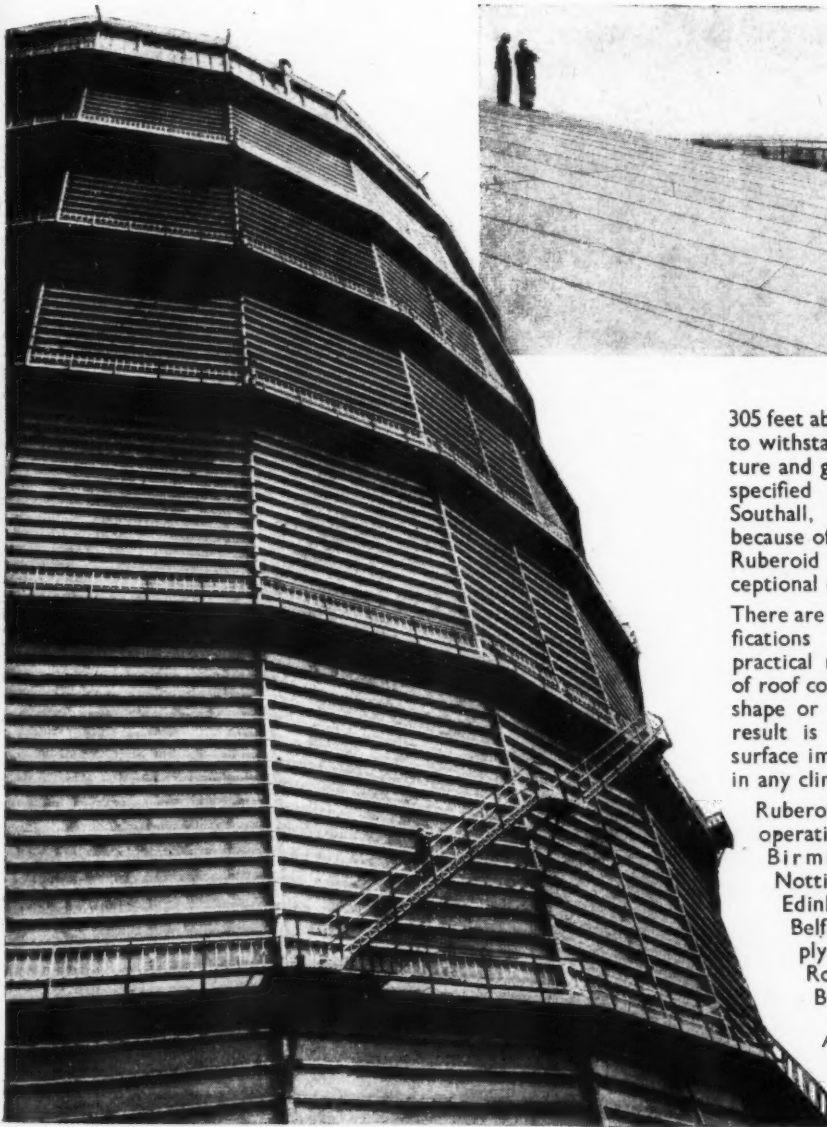


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A. R. Whitear drew this impression of the welding of metal window frames. It forms part of a series, "Window Makers at Work" by artists commissioned by Williams & Williams Ltd.

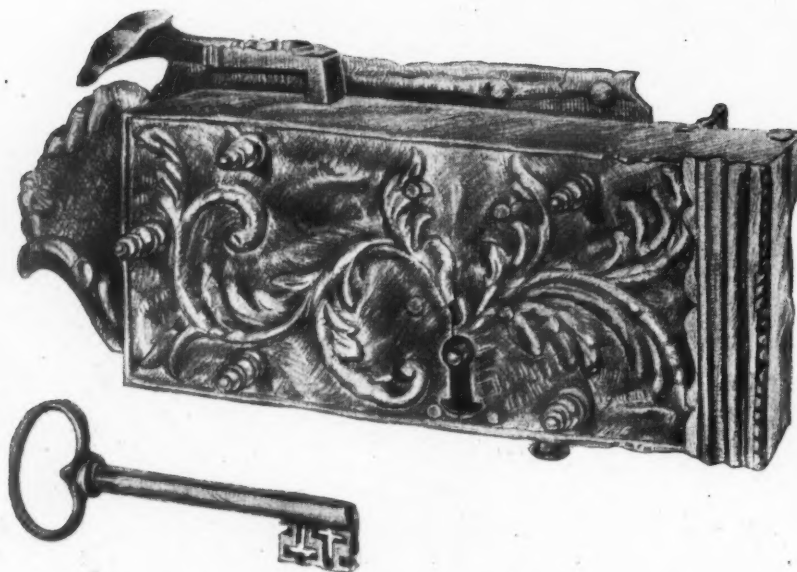
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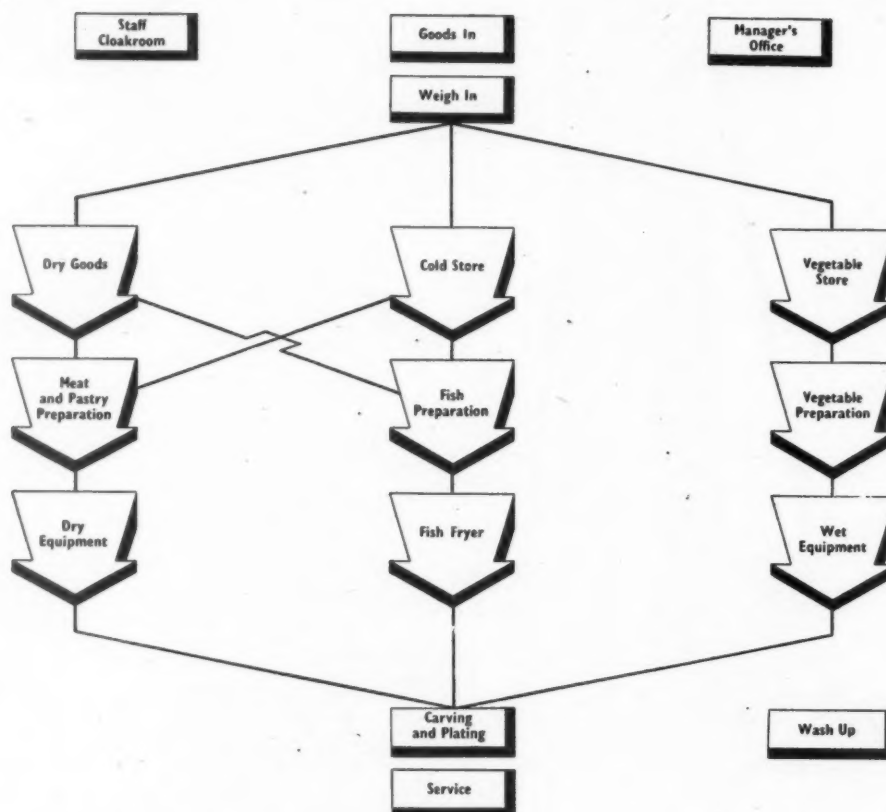
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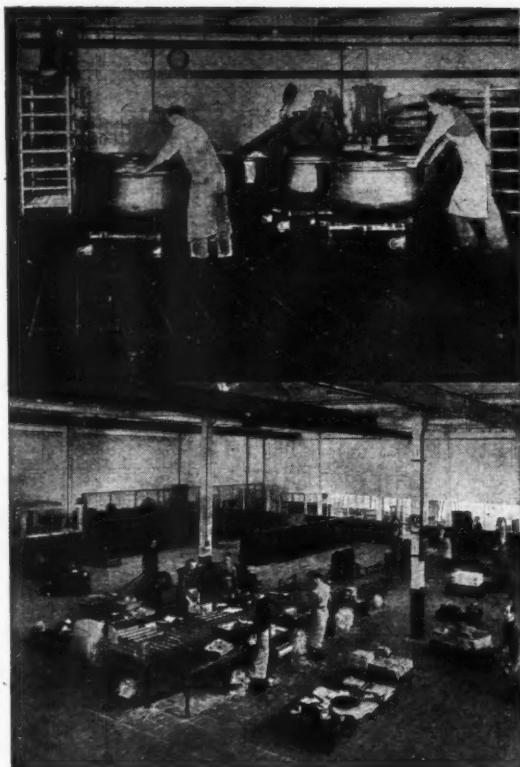
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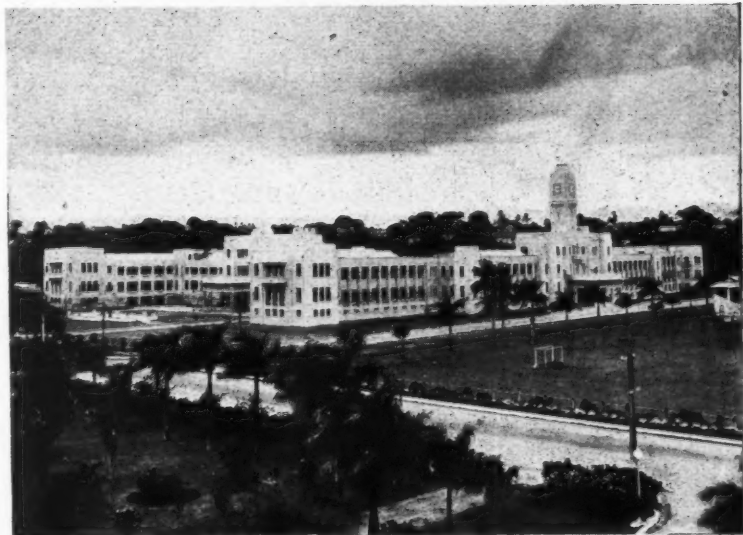
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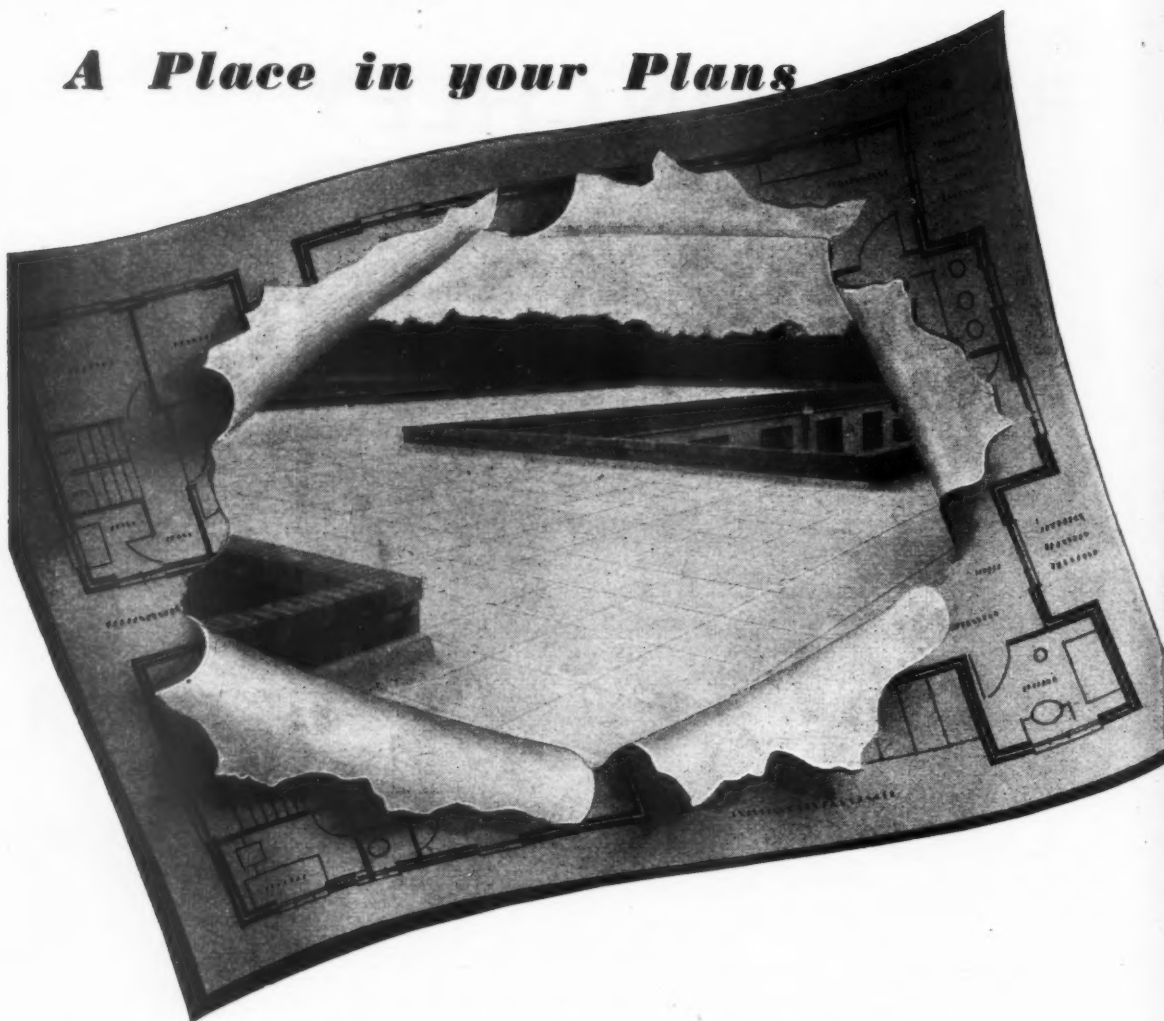
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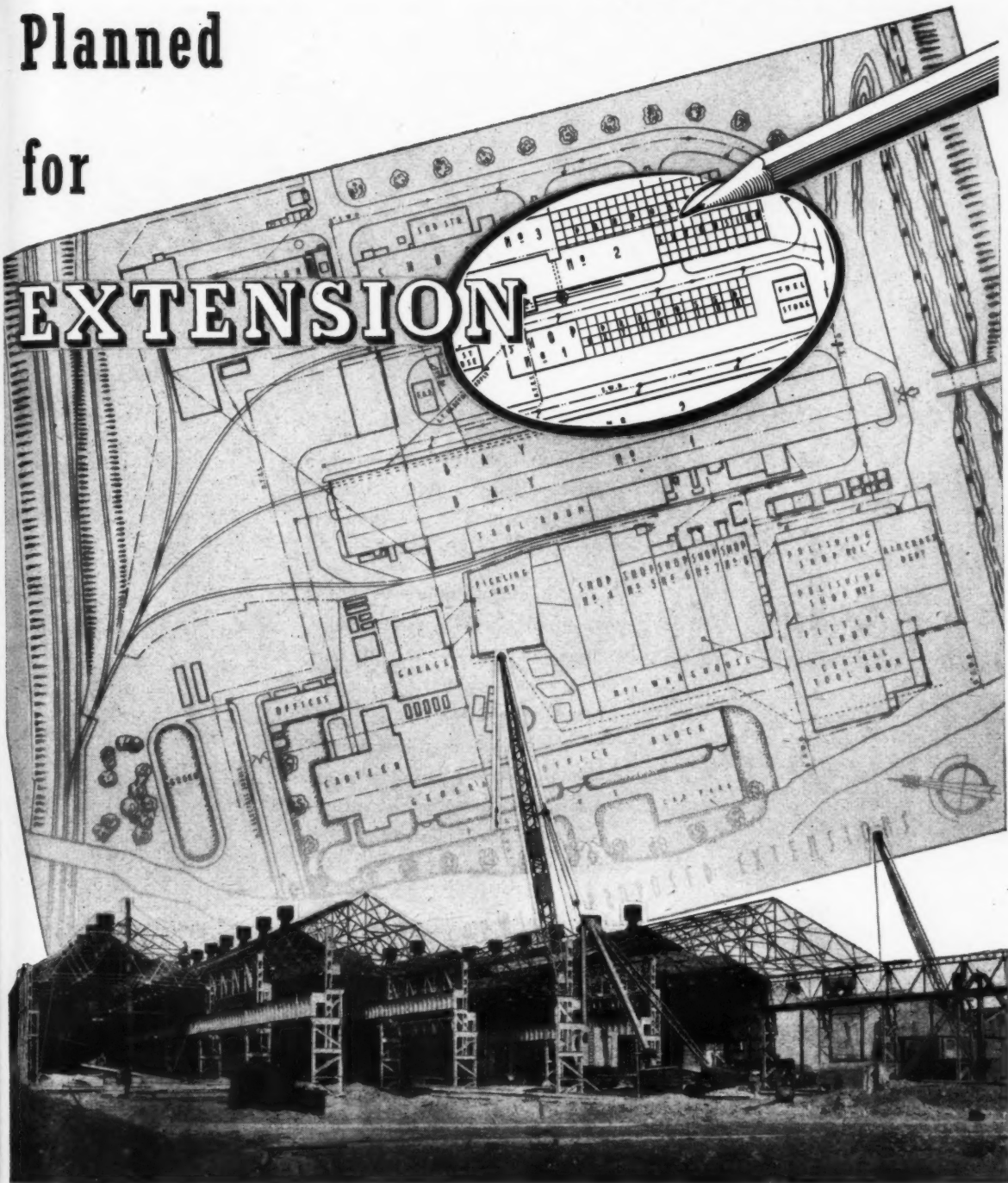


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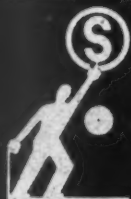
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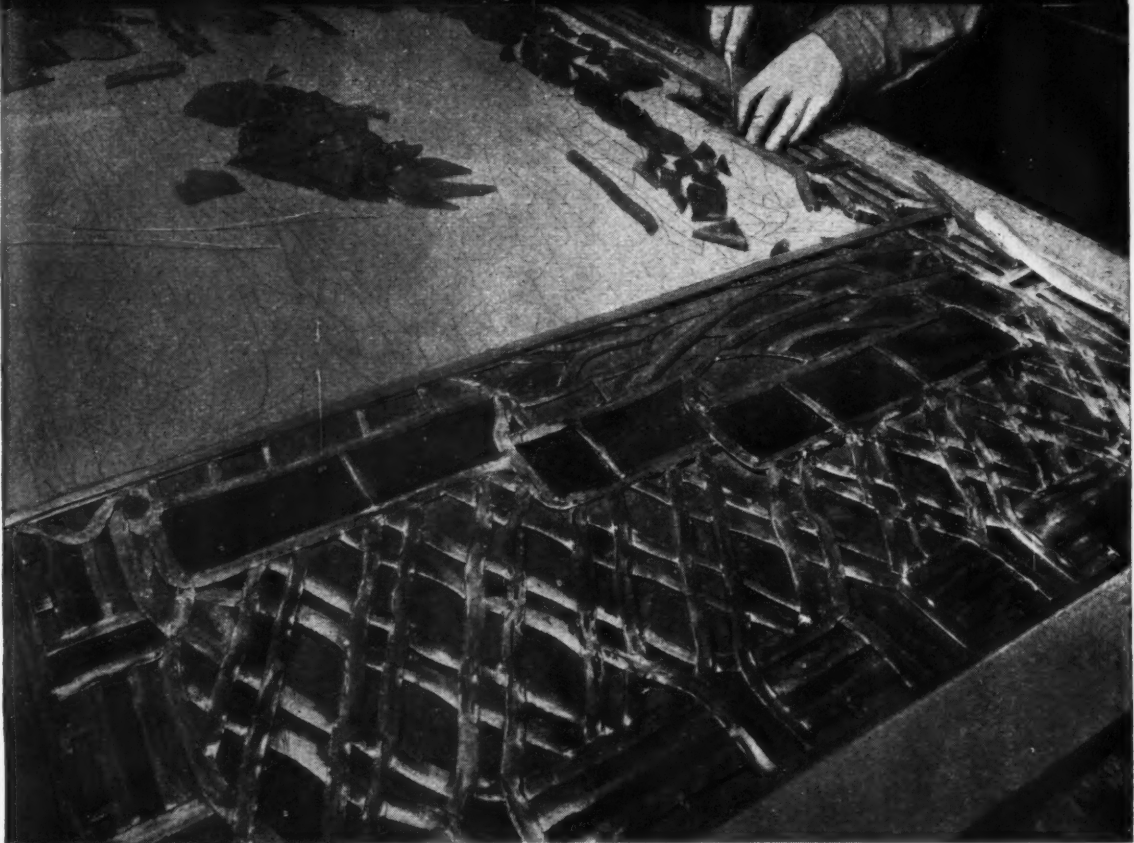
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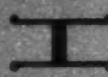
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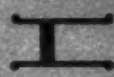
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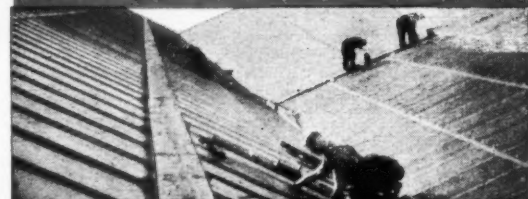
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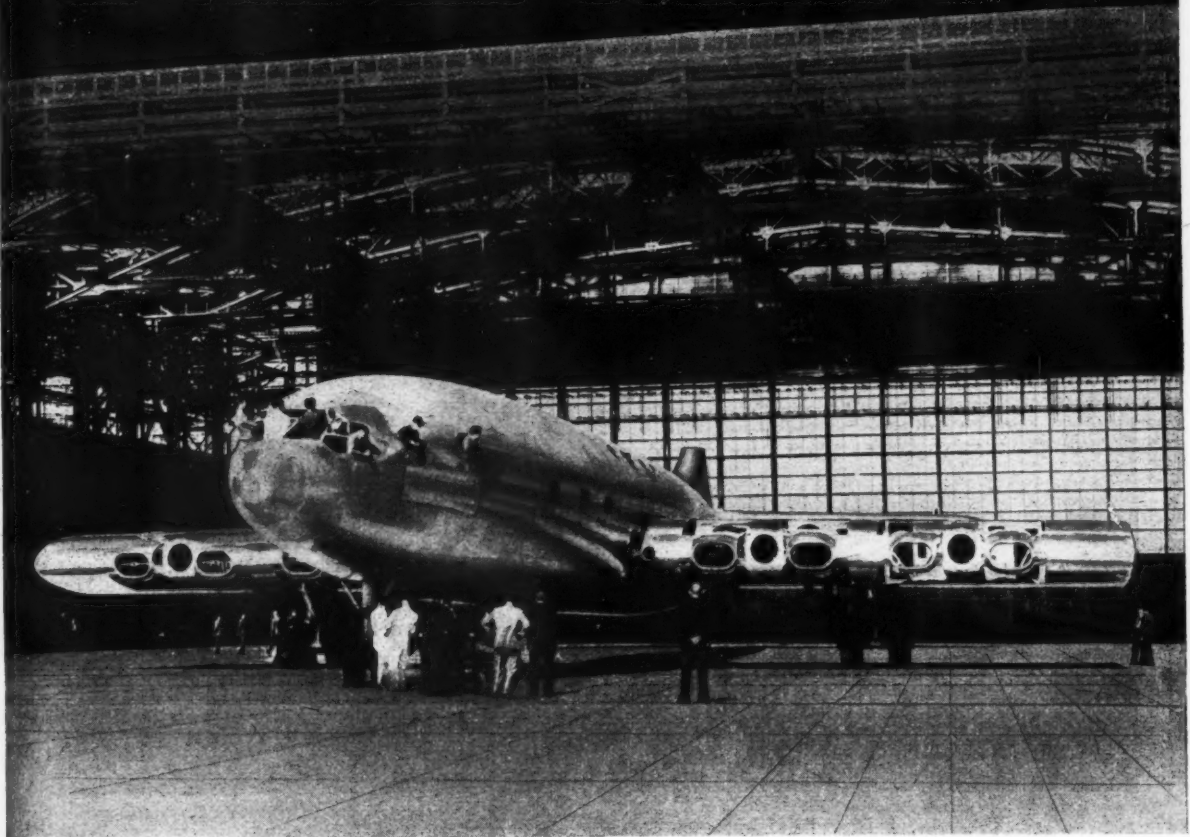
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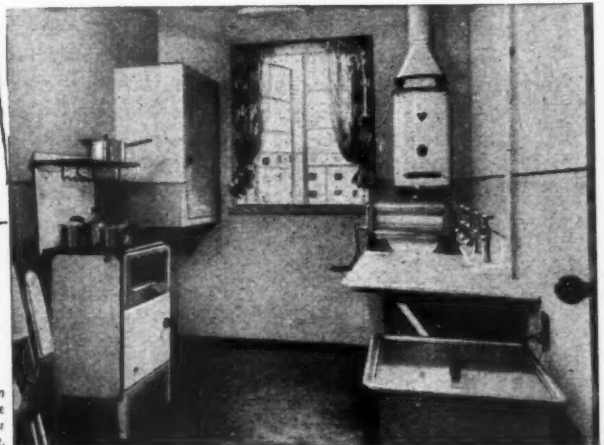


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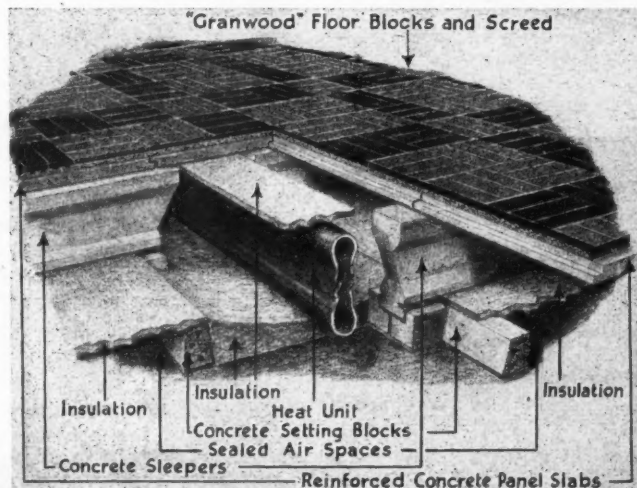
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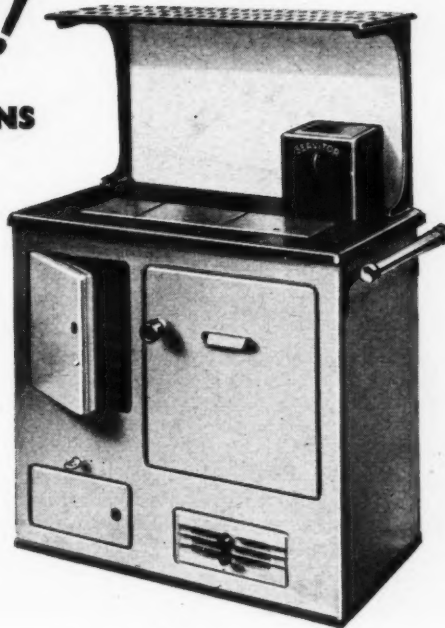
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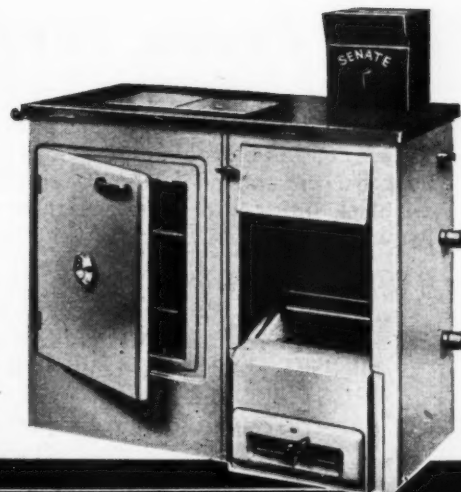
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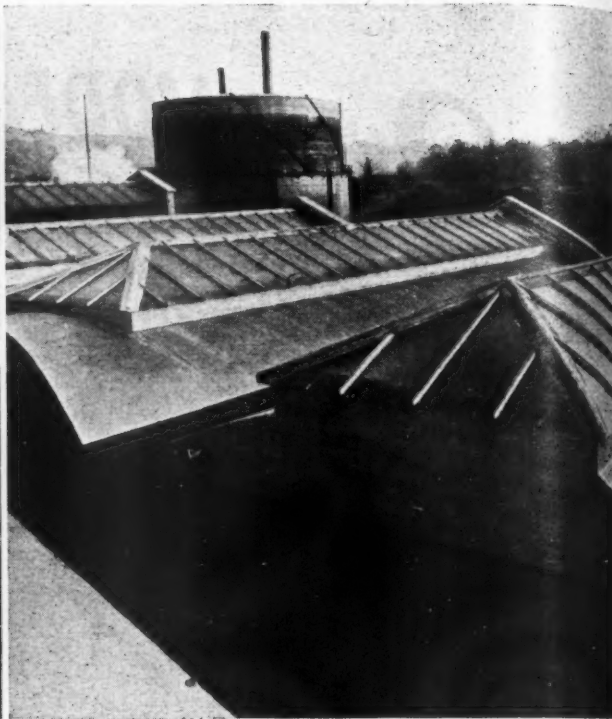
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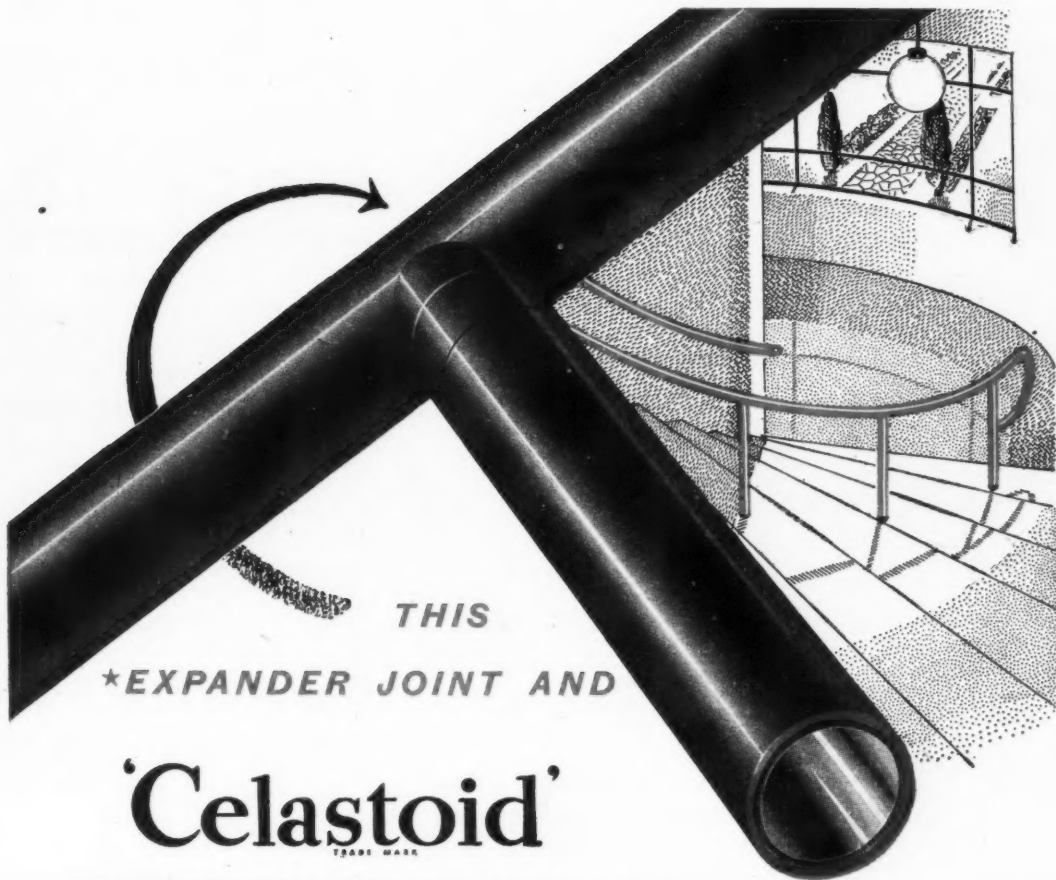
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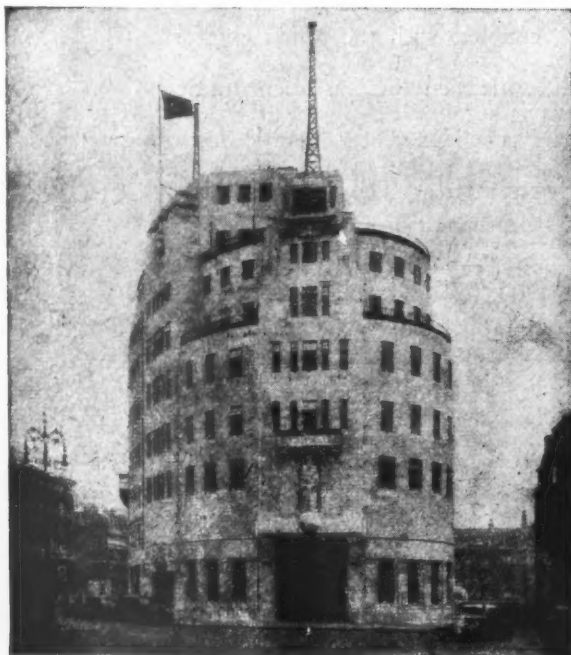
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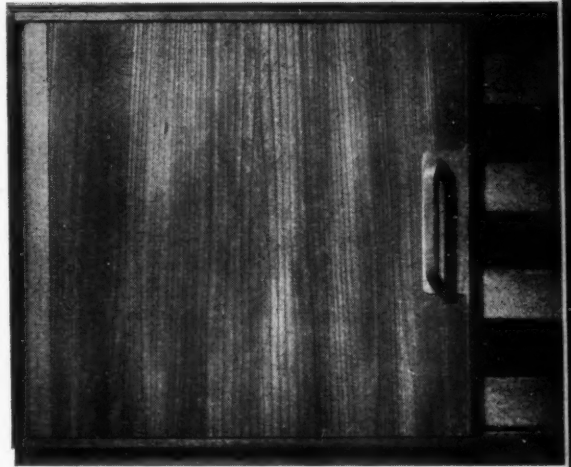
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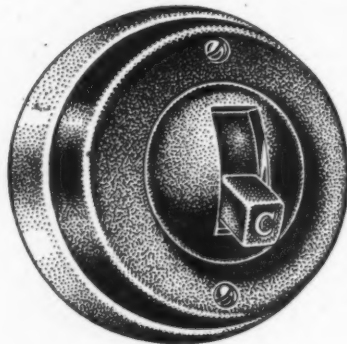
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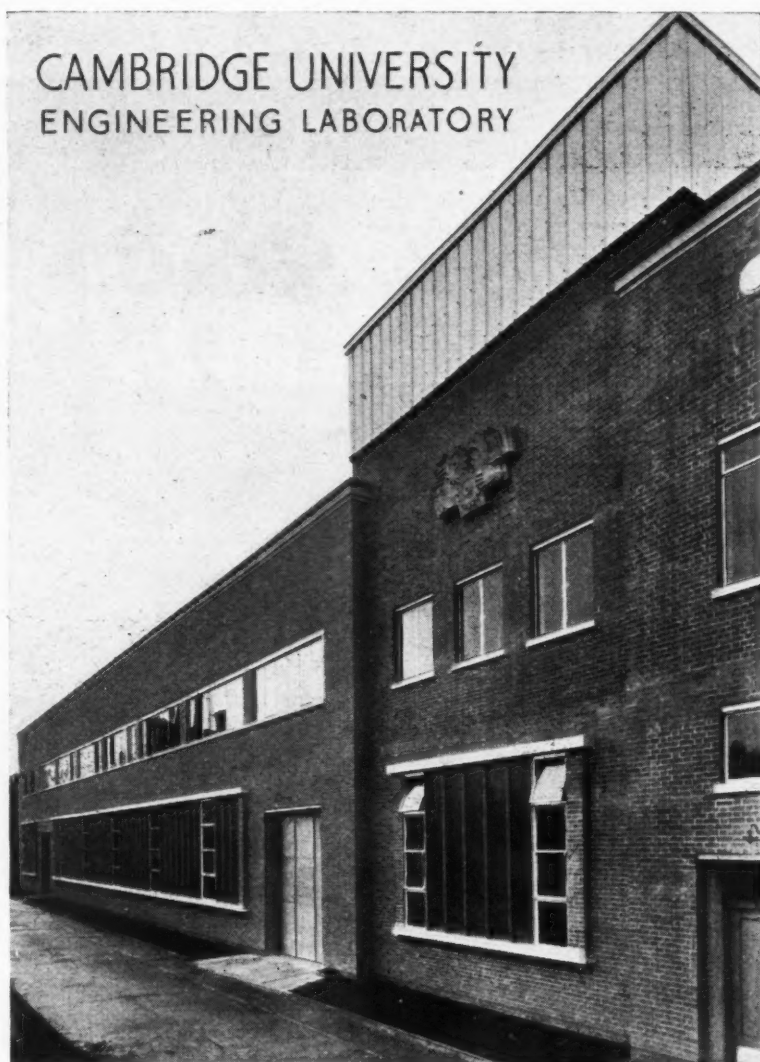
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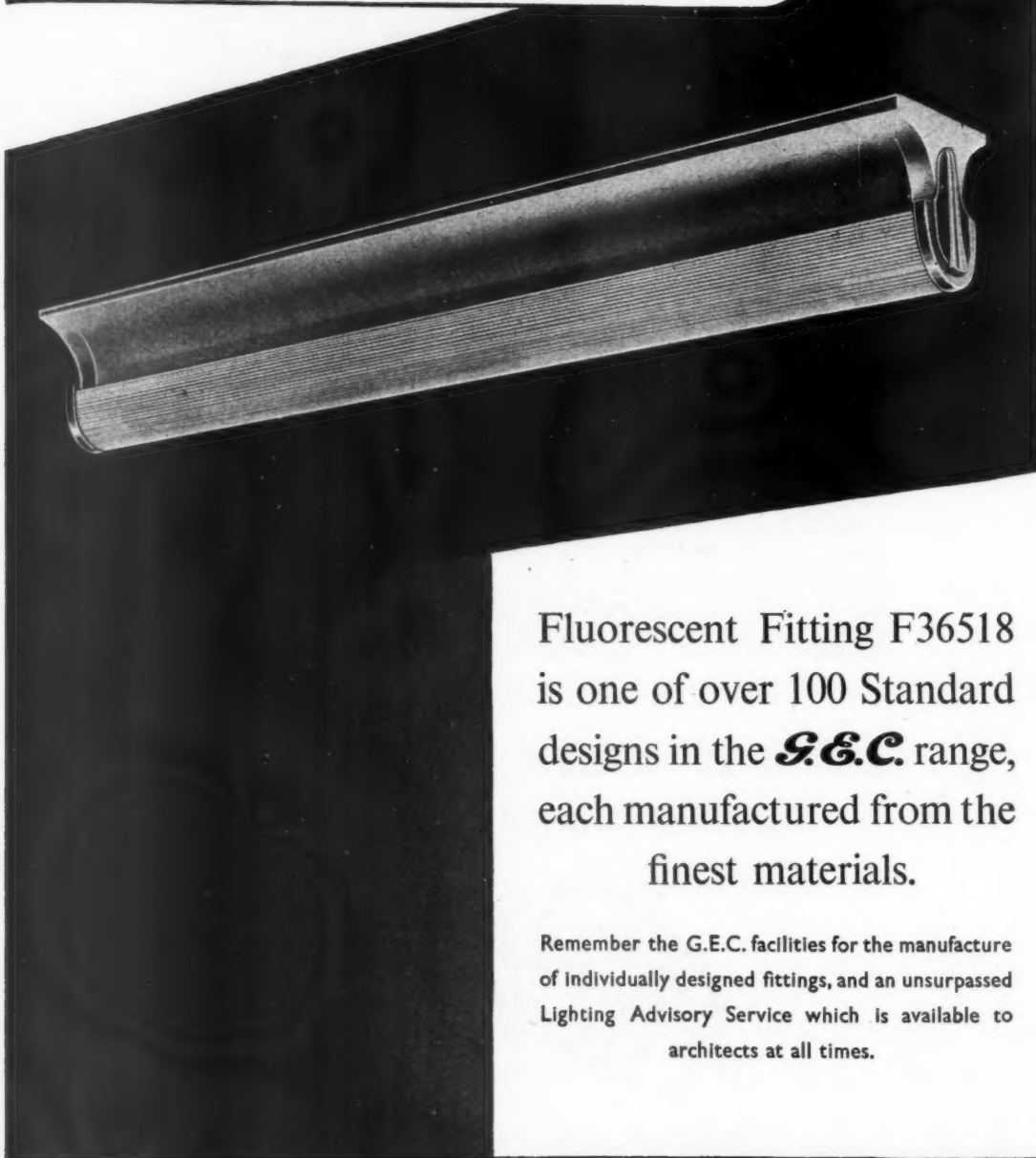
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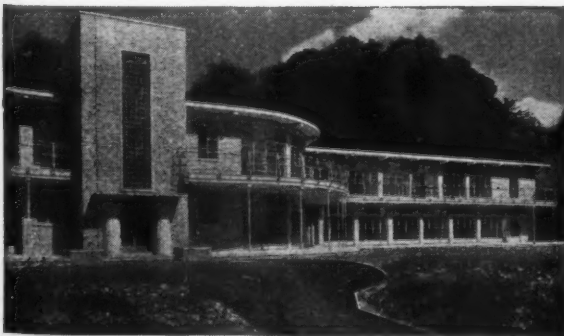
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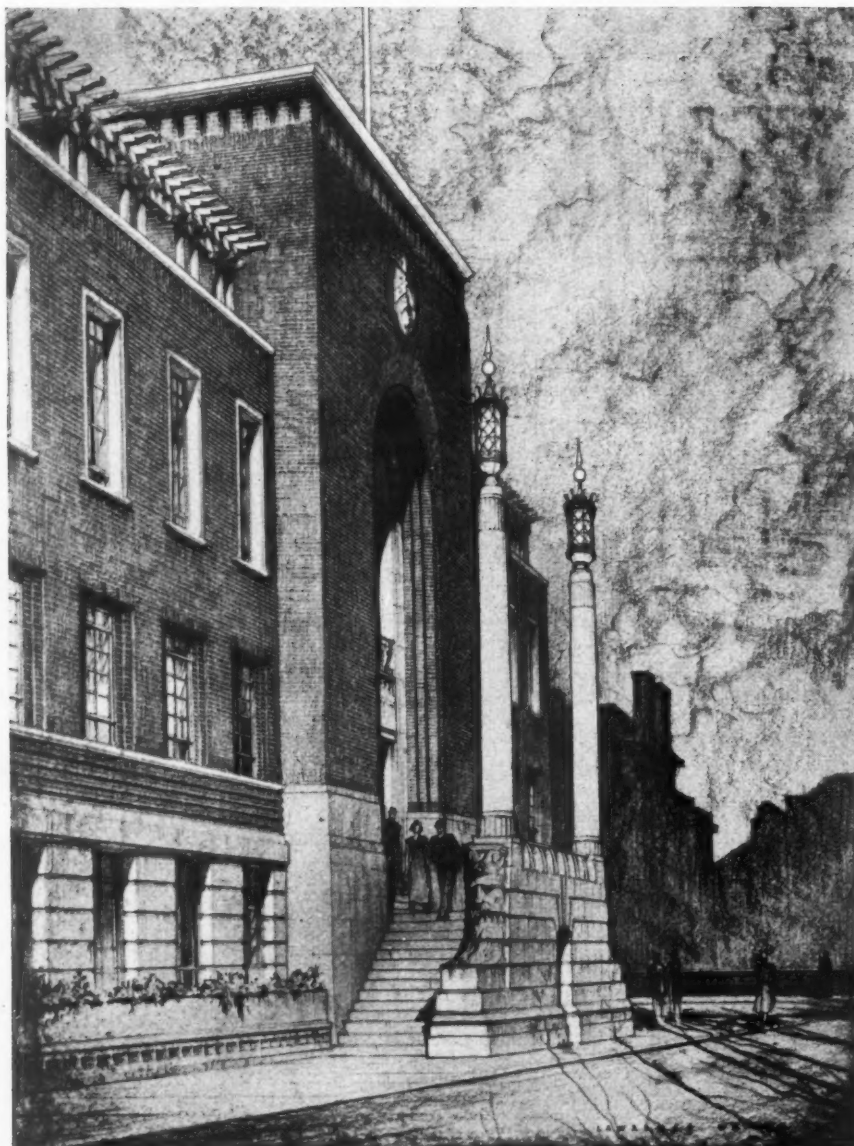
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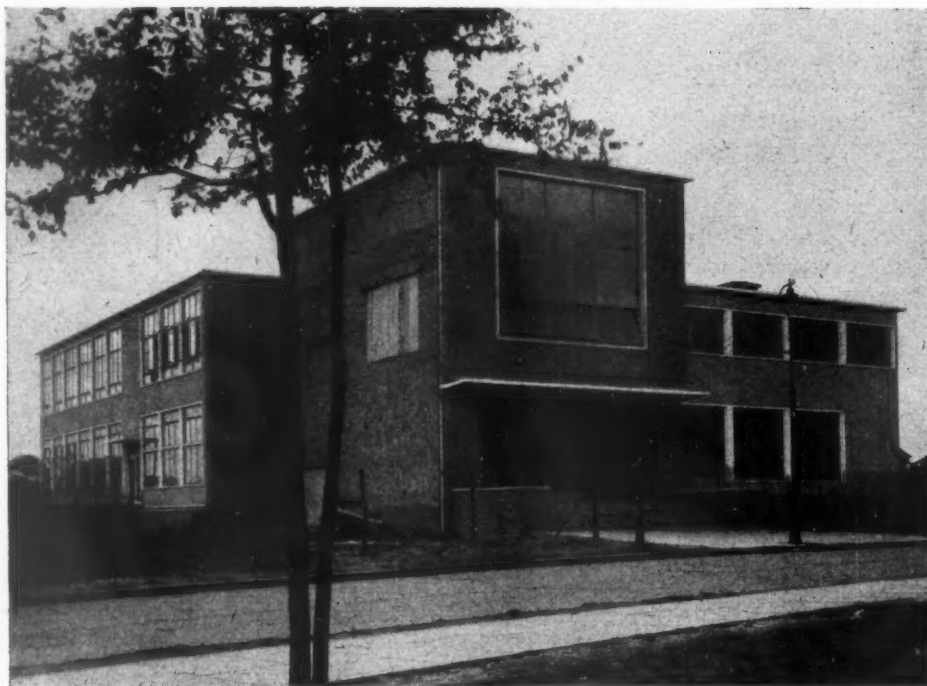
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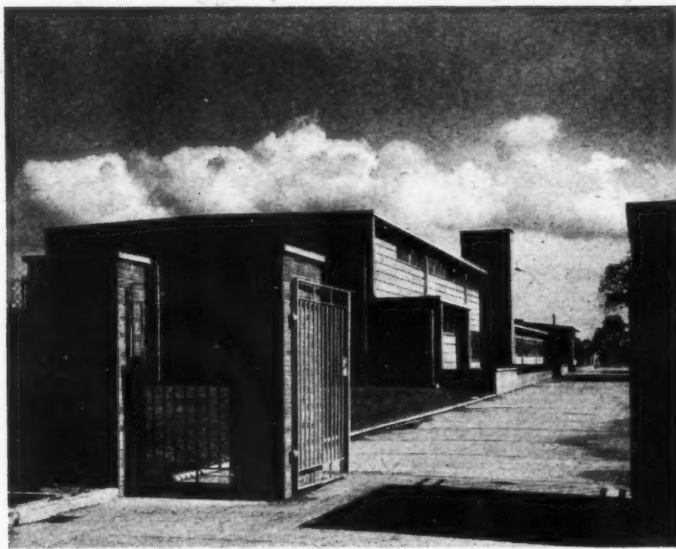
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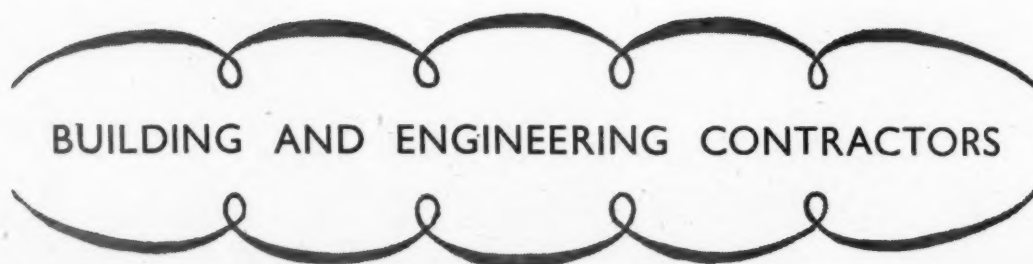
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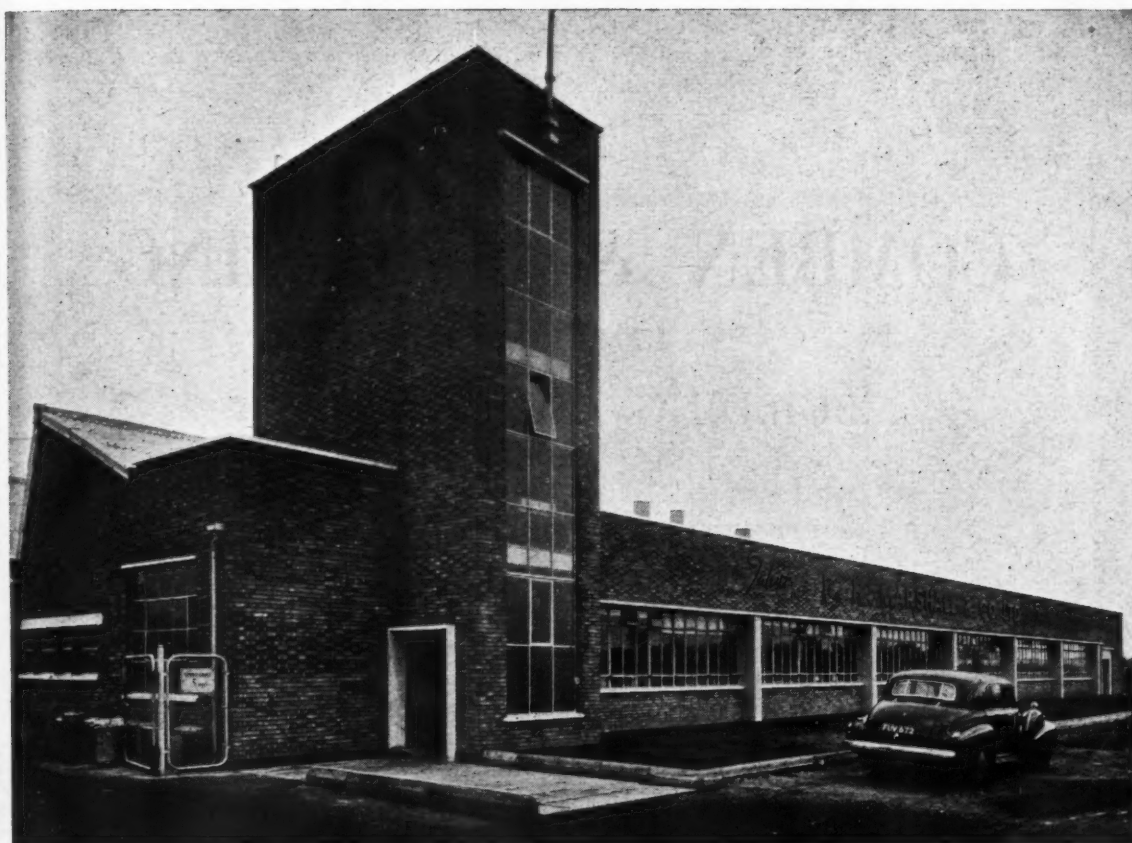
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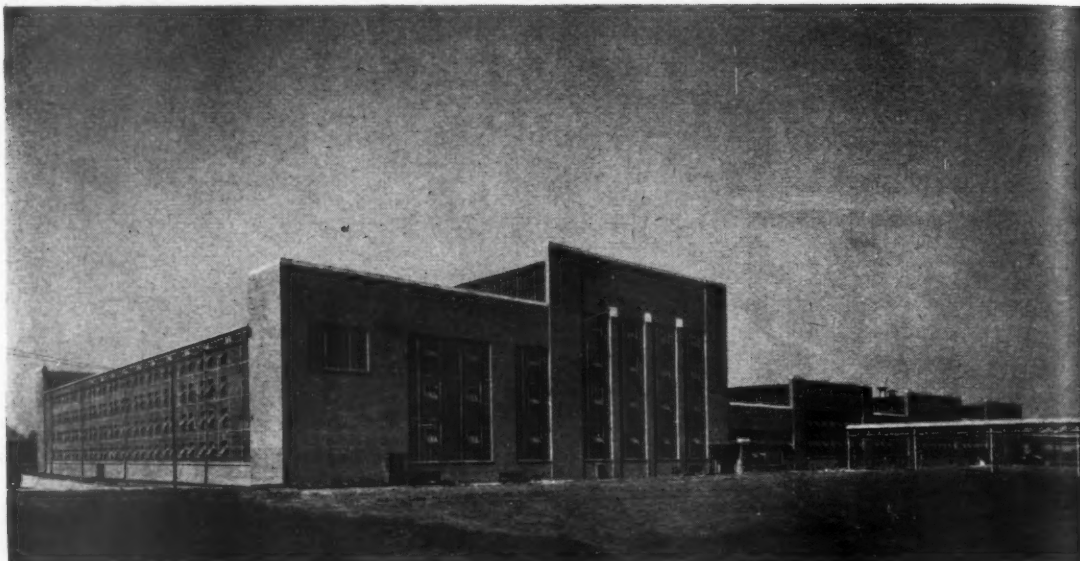
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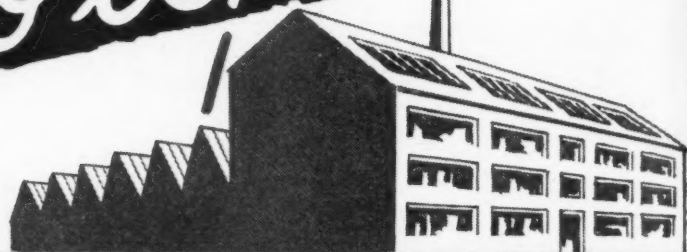
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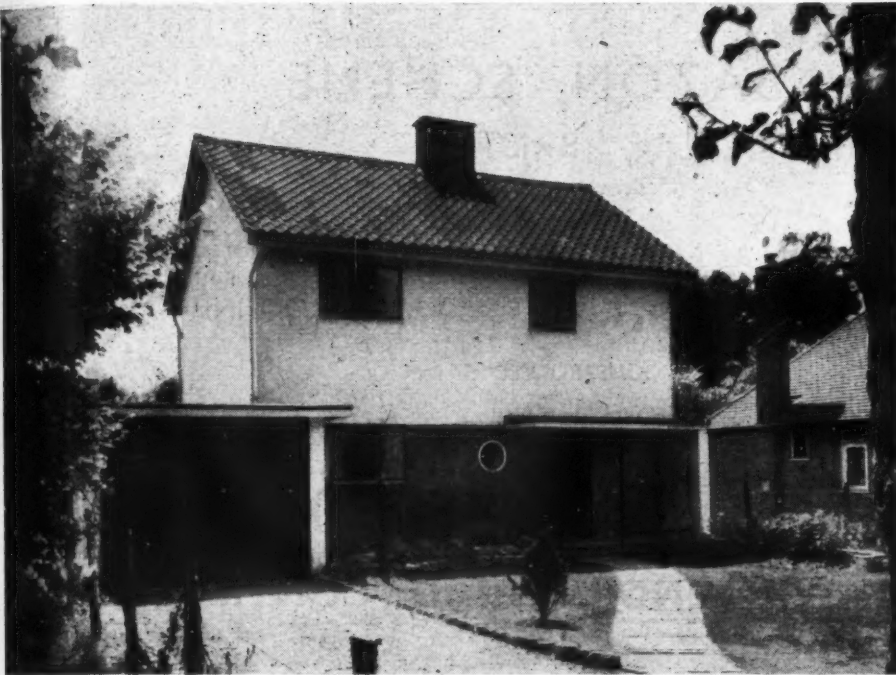
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See

page 75

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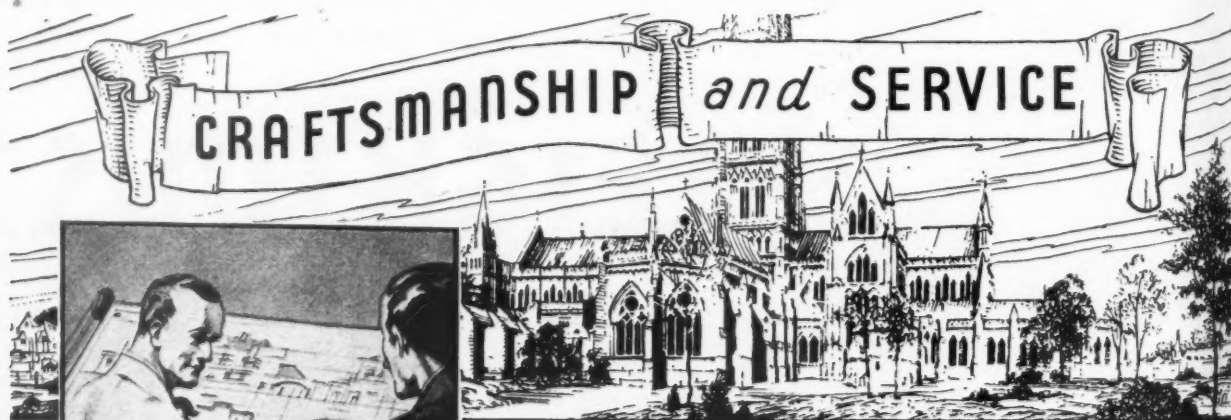
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Inigo Jones, Christopher Wren, Lutyens and the rest - they are remembered. The poor builder is forgotten.

Your question is a poser. You tell me that on my death-bed I shall think only of building - nothing else. Then you ask: If that is the case, what is the one really good piece of advice I would offer a young architect by my bedside before I died.

There is no ONE thing he should know, just lots of little things. Goodness knows I haven't learned them all myself yet; one day I may. One tries. Anyway, Roger, here is the first.

Building is a partnership between the designer and administrator - that's you - and the executor - that's the builder. A partnership must be based on mutual trust, therefore trust your builder. If you can't trust him, change him. Give him your confidence and remember that he has years of experience to your months and that experience is yours for the asking. Too many architects and builders spend too much energy trying to make life hell for each other; and they succeed. I'll write you as others occur to me (if I can find time and note-paper).

Yours very truly,

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No 2867 19 January 1950 VOL III

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ASTRAGAL'S REVIEW

of

1949

JANUARY

As the Old Year ambled away, bent beneath his sickle and hauling behind him a hammer which had bruised the earth from East to West, the country looked anxiously at the newly-born infant, 1949, and wondered whether it would have Uncle Joseph's "noes." Many people took this as red and turned their attention to more immediate troubles. Publicans were still fearful lest their liquid assets should be frozen by the icy grip of state control. And many Londoners were affected by the striking way with which bus drivers greeted the New Year. Before long, attention was directed towards incidents in Berlin, which were not quite cricket, and incidents in South Africa, which were. However, Britain survived the test in Africa. And although her pitch in Germany was being queered by the Soviet, she was able to take heart from the signs of growing unity in the Western world. As the month lumbered on, a Devonshire parson caught a pig with a hockey stick, a robot plane travelled faster than sound, and Mr. Morrison suggested that Shakespeare's Globe theatre should be rebuilt in the Elizabethan style. When, in addition to all this, the Chantrey collection was let loose on the public, most people sympathized with the bewildered being who clambered to the top of Eros and clung to that symbol of love for half an hour. But not all

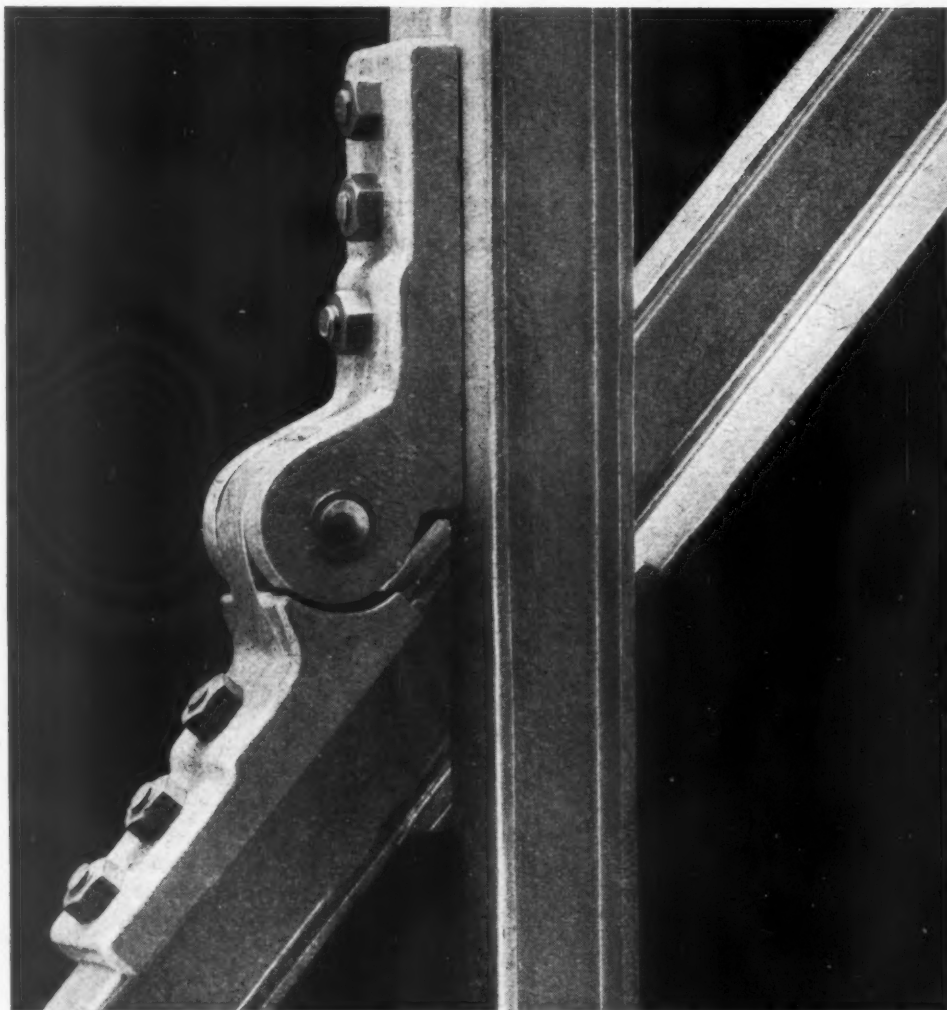


could seek such an escape. And although the architect, like the poet, may have felt like leaving his "art made tongue tied by authority," he plodded on steadily into the New Year, with perhaps the smallest sigh of envy for Professor Gropius, who left this land of controls long ago and was chosen during the month as architect for new buildings at Harvard University. Apart from this reminder of her achievement in taking Gropius from us, America was in the news several times. Her greatest success was undoubtedly the discovery that cast-off woollen clothing could be made into a breakfast food. To prove this, a cat was photographed eating what had once been a pair of underpants. Several days later the rationing of woollen garments came to an end in Britain.

FEBRUARY

Greenwich, meantime, gave the architectural profession what is vulgarly known as the pip, for it was decided that the most observed of all observatories should be moved without architects' assistance. This caused considerable gnashing of teeth, and it was not long before the Government revised its financial estimates for dental welfare. At this time British Railways reviewed the colour-schemes for their rolling-stock, which, they announced, would be standardized in crimson lake and cream. It will be remembered that they had already coloured the language of canal boat owners by recommending standard blue and yellow panels for barges. And if many people declared their reluctance to touch the Government with a bargepole, these gentlemen would probably have done so willingly. However, there was little news of aggression this month, although Campden Hill was preparing to fight an LCC invasion. One of its defenders, Peter Scott, claimed that nightingale or kestrel performances were still to be heard in the area. No doubt he shared the general fear that the proposed LCC flats would attract the less sophisticated songsters of the boogie-minded bourgeoisie. But the affairs of a Kensington minority were of little importance in a month which brought the cuckoo to Devon and Aldous Huxley to London; one with a perennial theme and the other with a perennial philosophy. And even the blaze of record sunshine in Britain could not outshine the news that Frank Lloyd Wright was not without the honour of an AIA gold medal for the profit he had brought to his own country.





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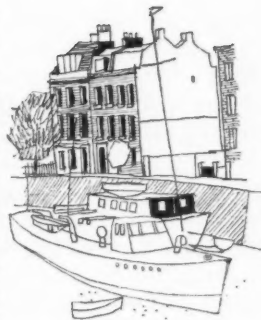
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MARCH

"Caw," said Cowper's Jackdaw, as it looked upon the world. And no doubt the more uncouth of my readers echoed that comment as the stormy month of March swept by, raising the dust of Fascism in Rome, tossing the fate of the English village into the balance at Letcombe Bassett, and reversing the mills of God in the East. As lesser mortals surveyed the activities on the globe from their breakfast tables, one privileged being encircled the earth by air without stopping. This achievement, if popularized, could easily do away with the need for the world "languij," one form of which was rejected by Parliament during the month. Nevertheless, as we reflected at the time, it would be useful to have a universal way of referring to the constabulary of Leith, especially as Mr. Ede was arranging an extension of drinking hours in London for the benefit of tourists. It was only to be expected that after this concession to the Londoner the Home Secretary should give the whole country permission to go to the dogs—at least in mid-week. But, as in every other month, several good deeds shone brightly in the naughty world. Public opinion saved Cheyne Walk, Chelsea, from mutilation; schoolboys sped willingly to the first aluminium school at Bristol; the RIBA gave a well-planned exhibition of industrial architecture, and thirty-two miles of water were sold in a Kent dance hall to the Inland Waterways Association, thus saving the Basingstoke canal from possible depredation.



APRIL

As usual April was weeping her girlish tears before she had been with us for long. But this time she had a new neon smile, which she introduced in Piccadilly, with a great deal of coquettish winking. Sociologists squirmed, of course, and muttered darkly about the Roman Empire. But all was well; this turned out to be a month for laughter rather than tears. Gluttony, which, as Milton so rightly observed, never looks to heaven, looked instead to Mr. Strachey, who presented it with a "perpetual feast of nectar'd sweets." Beer, which had hitherto flowed like wine, began to flow like beer again, at a reduction of a penny a pint. And as for less material delights: there was the signing of the North Atlantic Treaty; the showing of Munich masterpieces at the National Gallery, and the return of larger newspapers with those patrons of East End tailoring, the square-jawed heroes of the strip cartoon. Architectural students, who met in London for the International Students' Congress, made the courageous decision that they must not only build for the People, but mix with them as well. News from the South Bank included details of the LCC Concert Hall and of the architects selected for the Exhibition buildings. Meanwhile, a mobile house was built by the roadside in two hours, on its way to the BIF, Birmingham; Mr. Blandings built his dream-



house in the Haymarket, and Mr. McSweeney, of San Francisco, produced plans for a building to house 400,000 people. In Aldwych, the appearance of a scaffold told theatregoers that the Gaiety would soon be fit for Macqueen; while at the Royal Academy dinner Sir Alfred Munnings climbed on to his highest horse and provided the highlight of the month by charging vigorously at the moderns.

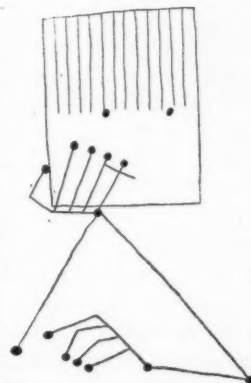
MAY

May was a fairly merry month. The Soviet blockade of Berlin was lifted; the new Federal Government of Western Germany came into being, and there was much more cheese about. It was also a month of some significance in the architectural world, for the LCC replied to criticisms of some of its post-war housing, which had been made by J. M. Richards and the ARCHITECTS' JOURNAL, by staging an exhibition of its work and inviting professional comment. Critics of nationalization, who were in the habit of reading between the lines, were distressed by the announcement that the lettering of station names was to be of a standard size and design. There was also some dismay when British Railways produced "timber" taverns on wheels. Before long, however, the memory of these errors of taste had been erased by the re-appearance of corduroys caressing slender sandals at the free picture show on the Victoria Embankment, and the exhibition of Viennese art treasures at the Tate. And for those who loved nature more than art there was a touching little news story from Ceylon, where a husband and wife were re-united by the affection of their pet elephant.



JUNE

It seemed natural enough that June should be the time chosen for an attempt to create artificial moonlight in Austria. And as, according to the song writer, the moonstruck inevitably find a way, it was not inappropriate that the population report should be released this month, with its recommendation for more larger houses. When housing was discussed later at the RIBA Conference, at Nottingham, it was only too apparent how little progress the profession had made in producing better quality homes. Architects must have felt even more hot under the collar at this time than the ordinary man in the street, who showed how far from ordinary he was by bravely removing it altogether. During these first few days of a continental summer a Government request for restraint and self-discipline was printed in a Press now considered inferior to none. But such a request was futile. And nothing could have cheered the public more as it dozed at its desk than the news that a really efficient mechanical brain had been developed at Manchester.



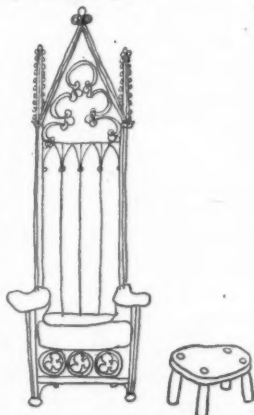
JULY

"Our buildings ought to express something of the soul of our nation," said Mr. Attlee, when he presented prizes to students at the Architectural Association. This must have seemed a little depressing to the would-be architect with a poor opinion of his country's soul. In fact, during this month, when 265,000 working days were lost by strikes, it seemed that there was an excuse for architecture being inarticulate. What we needed, it appeared, were the services of the two Los Angeles architects, who, according to a publicity handout, were "quietly remodelling the American way of life." However, as no British architect would tamper with his country's mode of living, it was a relief to hear the Conservative Party's assurance that they had found the blue road to be the right road for Britain. But was it significant that the DSIR recommended that fast roads should be red, slow roads yellow, and parking places green? There was no time to ponder on this point; the month rushed by, bringing with it the news of a Viking invasion; the introduction of the Housing Act, and an attempt to lay that dear old echo in the Albert Hall by the completion of the new inner dome. Finally, an enterprising budgerigar with considerable news sense hopped into the headlines by biting a visitor in the National Gallery, which is, as the reader will agree, the one place where one can usually avoid being bitten by budgerigars.



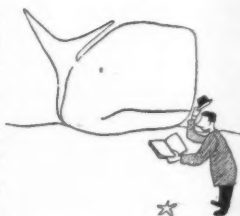
AUGUST

"Sweets to the sweet: farewell," said Mr. Strachey, or words to that effect, as he strewn pink coupons on the gourmands' grave, and tossed a small pile of ammunition to the Tory leader writers. However, one newspaper had heavier guns to fire and spent three days launching a broadside on the '51 Festival of Britain, implying that it was a move for political rather than national gain. Such an ambitious project was bound to arouse a certain amount of criticism, especially as the Press had more space in which to demonstrate its freedom. But architects had little reason to complain about the Festival this month, for its organizers announced details of competitions for a restaurant and a vertical feature to be built on the Exhibition site. At Bergamo, an outstanding feature of the CIAM Congress was the comparison of more than twenty town planning and housing projects on the basis of the grilles invented by Le Corbusier. And perhaps the greatest lay interest in the world of design this month was aroused by a report in the ARCHITECTS' JOURNAL of a talk given at the CID Furniture Design Conference by Dennis Chapman. Mr. Chapman believed that good design could help to prevent unhappiness in marriage. It was the designer's task, he said, to create furniture which would "symbolise the element of fantasy in a couple's emotional relationship."



SEPTEMBER

There is nothing more embarrassing to a sensitive person at this time of the year than to come face to face with a stranded whale. And no doubt many people were grateful to the British Museum for publishing a book outlining the etiquette for this and similar occasions. But even with a copy of the Museum's guide in his pocket, no man could face September with equanimity, for there were reports of discontent in Syria, deadlock in Austria and prefabricated pubs in Birmingham. In addition, the follies of Montmartre were laid bare in London, and the follies of Britain were revealed by a drop in her sterling qualities. Small talk centred for a time on the atom bomb, which Russia now possessed, and the dollar gap, which seemed to be doing dreadful things to the price of loaves. However, the country's morale was boosted by the news that it was committing fewer crimes; by the report of the British Building Productivity Team, which had returned from America confident that our own industry could equal that of the States if given a chance; and the maiden flight of the Brabazon, which called attention to her hangar at Filton, one of the most spectacular architectural enterprises of post-war Britain.



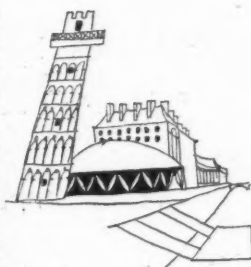
OCTOBER

"This was the most unkindest cut of all," said Anthony. And architects all over the country, who echoed that phrase before the month was out, could be forgiven if they were equally forgetful of their grammar in the heat of the moment. There had, indeed, been a mighty fall, and £35 million of housing lay buried beneath the ruins of proposed national expenditure. Mr. Bevan's action in cancelling 25,000 houses compared unfavourably with the MOE's decision to economize by reassessing planning needs. But no doubt the more philosophic minds applied Dr. Summerskill's latest dictum to the impending shortage of homes. A man ate steaks, she had said, because it was the thing to do—like wearing a stiff collar. (And, of course, he lived in a house for the same snobbish reason). At about this time sporting men, who never wear stiff collars and were, no doubt, relishing the newly decontrolled macaroni, were appalled by the news that America had produced an electronic umpire. Where, they asked, would players hang their hats? Before they had found a solution to the enigma, variations on an Elgar theme, played by the LCC Fire Brigade Band, heralded the laying of the foundation stone of the South Bank concert hall. This was an occasion for the suppression of party politics by local patriotism, and any loud voiced opponent of the £2 million scheme would undoubtedly have been sent to Coventry. Here, incidentally, Lady Godiva was unveiled for the second time, proving once and for all that her success had been due to ignorance of the urchin cut.



NOVEMBER

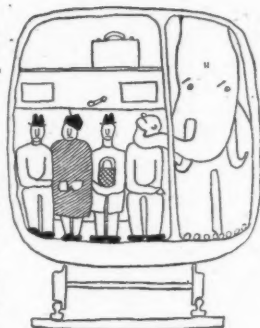
Thomas Hood wrote of the month that there was "no comfortable feel in any member." This was confirmed by Hansard's report of the groundnuts debate. And although the poet's list of November's negative qualities proved to be unduly depressing, the fog which he so disliked continued to drift across the vision of the nations' leaders. Those newspapers which found room to



spare between cartoons and advertisements, published dismal reports from Lake Success, which, as has been said, is neither a lake nor a success. As usual the month brought with it the end of flat racing in the sporting world. It continued, however, in the offices of local authorities, who were grateful for the publication of the MOH housing manual. Interesting developments in building techniques were on view at the Olympia Building Exhibition, which was larger than ever. And towards the end of November general interest was aroused by the publication of designs for the South Bank exhibition buildings by the Festival of Britain architects. Many people were surprised that, in spite of all the excavations that had been made around its base, the shot tower showed no signs of becoming a diagonal feature like the tower of Pisa, which, it was reported, was now leaning at a greater angle than ever. This Accidental Surrealism was more than equalled during the month by the Deliberate Decadence of Salvador Dali, who brought umbrella frames, peacocks and pomegranates to the Covent Garden version of *Salome* as a final pathetic gesture before renouncing his former life and work completely.

DECEMBER

Whatever the cynic may say about the largely pagan attitude towards Christmas in this country, there are definite signs of a warmer and more friendly atmosphere from the first few days of the month. For that reason it always seems a pity that newspapers and PRO's are unable to suppress those items of information that will cause disappointment and distress. This



This year, however, the time of general goodwill did not hold too many horrors for the architect, although he must have winced when the building exemption limits were reduced, and it is likely that he batted both eyelids when the Ministry of Labour issued its ill-considered report on the future of the profession. For many people, reflections on these solemn matters were probably replaced by slight trepidation at the news that an elephant had gone mad while travelling on the British Railways. But once the holiday celebrations and travel were over, and the air was no longer full of the cooing of teen-agers discussing Rita Hayworth's offspring, the intelligent man (and one or two of my readers) must have cast his mind back over the past five decades, and retrieved it hurriedly. For those who were not completely engrossed in the mathematical

problem of when the half-century really ended, the year closed on an anxious note. The British public, having survived the sermons of Sir Stafford Cripps, the devaluation of the pound and numerous descriptions of the probable effects of the atom bomb, was plunged into utter gloom by the illness of Lien-Ho, the Zoo's panda.

PERSONALITIES

Astragal regrets that 1949 has brought into the limelight no individual with a claim to the title of personality of the year. However, he doffs his hat in congratulation to AA School Principal, R. Furneaux Jordan, and to Gold Medallist Howard Robertson; to Gordon Brown, occupant of the Forbes Chair and Head of the School of Architecture at Edinburgh University, and to Sir Giles Gilbert Scott for receiving the Gold Albert Medal of the RSA; to British Knight, J. Hubert Worthington, and to Frances Day, Shavian actress; to Hulme Chadwick for taking Liberty's away from the 16th century, and to dramatist Christopher Fry for making advances towards it.

Also to John Summerson for his *Heavenly Mansions*, and to the MOH for its terrace houses; to Priestley and Bliss for *The Olympians* at the Garden, and to the *News of the World* for the gardens at Olympia; to Piper who continued to paint the scenes of Britain, and to Britten who helped to cull its tunes.

Also to all who sought fame in the usual channel, and to Otto, the seal, who acquired it; to Eric Ross, architect for the Brabazon buildings, and to Robert Henderson, inventor of a new system of prefabrication; to T. S. Eliot for *The Cocktail Party*, and to the *Architectural Review* for its Pub Competition; to the RIBA for asking questions to determine the state of architecture, and to Osbert Lancaster for knowing the answers in so far as they affect Draynflete; to J. M. Richards for his broadcast criticism of post-war LCC housing, and to the LCC for replying with an exhibition of its work.

Also to embryo New Towns for stirring in their shells, and to Brett, de Soissons and Lock for their plans for Hatfield, Welwyn and Portsmouth; to Robert Matthew and J. L. Martin, architects for the LCC Concert Hall, and to a woman of some importance, Oscar winner Carmen Dillon, art director of Hamlet and ex-AA student; to Professor W. G. Holford and H. Myles Wright for their proposals for Cambridge, and to Nikolaus Pevsner for his appointment to the Slade Chair of Fine Arts there; to Thomas Sharp, ILA President, for his plans for Salisbury and Chichester; to W. Godfrey Allen and S. E. Dykes Bower, for their scheme for the east end of St. Pauls, and to John Thorpe for his model of the project.

Finally, Astragal, who has already raised his hat to the LCC, awards it a genial nod of approval for its belated decision to transfer responsibility for housing work from the Valuer's to the Architects' Department, and with a sigh of regret announces that he is compelled to keep his hat on in the company of the following: Mr. Lewis Silkin, for putting private interests before planning principles at Dulcote and Kensington Square; Bradford CC for transferring a great deal of its architect's work to the Surveyor's and Engineer's Department; the book reviewer who thought that Jack Bilbo put St. Augustine in the shade; and London buildings which were erected in 1948, because the RIBA decided not to award its architecture Bronze Medal for that year.



A Site to be Filled in 1950

It seems appropriate that in our New Year number we should include a photograph of the building site that will be most often in the public eye during 1950. This view of the Thames shows the area to the right of Hungerford Bridge, on the far bank, on which the bulk of the 1951 Festival buildings will be started during the year. To the

left of the bridge is the site on which other Exhibition structures will be erected around the LCC Concert Hall, the only building of its kind under construction in this country at the moment. The JOURNAL hopes to publish progress reports during the year, describing and illustrating the various stages in the erection of this building.



MESSAGE TO THE ARCHITECTS' JOURNAL
FROM THE MINISTER, THE RIGHT
HONOURABLE CHARLES W. KEY, M.P.

I am delighted to be able to send my greetings for the New Year to all readers of THE ARCHITECTS' JOURNAL. The year which has passed has been one of solid achievement for the building industry, which has used an increasing supply of materials. In fact, the industry has been working at a high level of activity and the country has recently been devoting a larger proportion of its resources to capital investment than for a very long time. It is in this light that we must look at the decision to reduce the capital investment programme. As far as the building industry is concerned, this will entail a postponement of a number of new projects during 1950 so that towards the end of the year a new rate of investment expenditure on constructional work will be established which will be only slightly below that of 1948. The need to make this reduction in the building programme arises from the economic difficulties of the country as a whole, which cannot, for the moment, afford to spend quite so much of its income on capital construction. We must devote more of our resources to exports; particularly to dollar markets. In our efforts to solve our economic difficulties, higher productivity and lower costs are vital factors. A reduction in building costs can be of assistance to all our industries in their efforts to reduce their costs. 1950 will be a year of challenge to the building industry, a challenge to play its full part in increasing the efficiency and productivity of this country.

The architect is as important to the industry as ever, perhaps even more so, since he now has the task of making the best use of limited resources. I hope, too, that he will be called upon to satisfy an ever-widening demand for buildings of a high æsthetic standard. In the re-equipment of our industries, the housing of our people, the reconstruction of our blitzed cities, and the development of the New Towns, there is so much work to be done that I cannot regard the future of the building industry as anything but promising. If all sections of the industry pull together during the coming year to achieve a new level of efficiency, temporary difficulties will be overcome and the road to a brighter future will be open.

Charles W. Key



MOW

The New Building Limits

As was reported recently in these pages the free limits for industrial and agricultural buildings are to be reduced from £1,000 to £500 per annum, and for educational, office and storage buildings from £1,000 to £100 per annum.

The MOW wishes to remind all concerned that where work being carried out under the present limits is still unfinished on February 1, and cannot be completed within the new limits, application must be made for a licence to finish the job. No work in excess of the free limits which will then be in force may be carried out until a licence has been obtained. The application should refer only to the work which remains to be done and not to any work which has already been done. In the case of work of this nature which was started before December 12, the date on which the new Order was announced, the Ministry of Works will not normally refuse to grant a licence for its completion. Consideration will also be given to applications to complete work started after that date. It is essential that application should be made as early as possible when it becomes apparent that the job will not be completed before February 1.

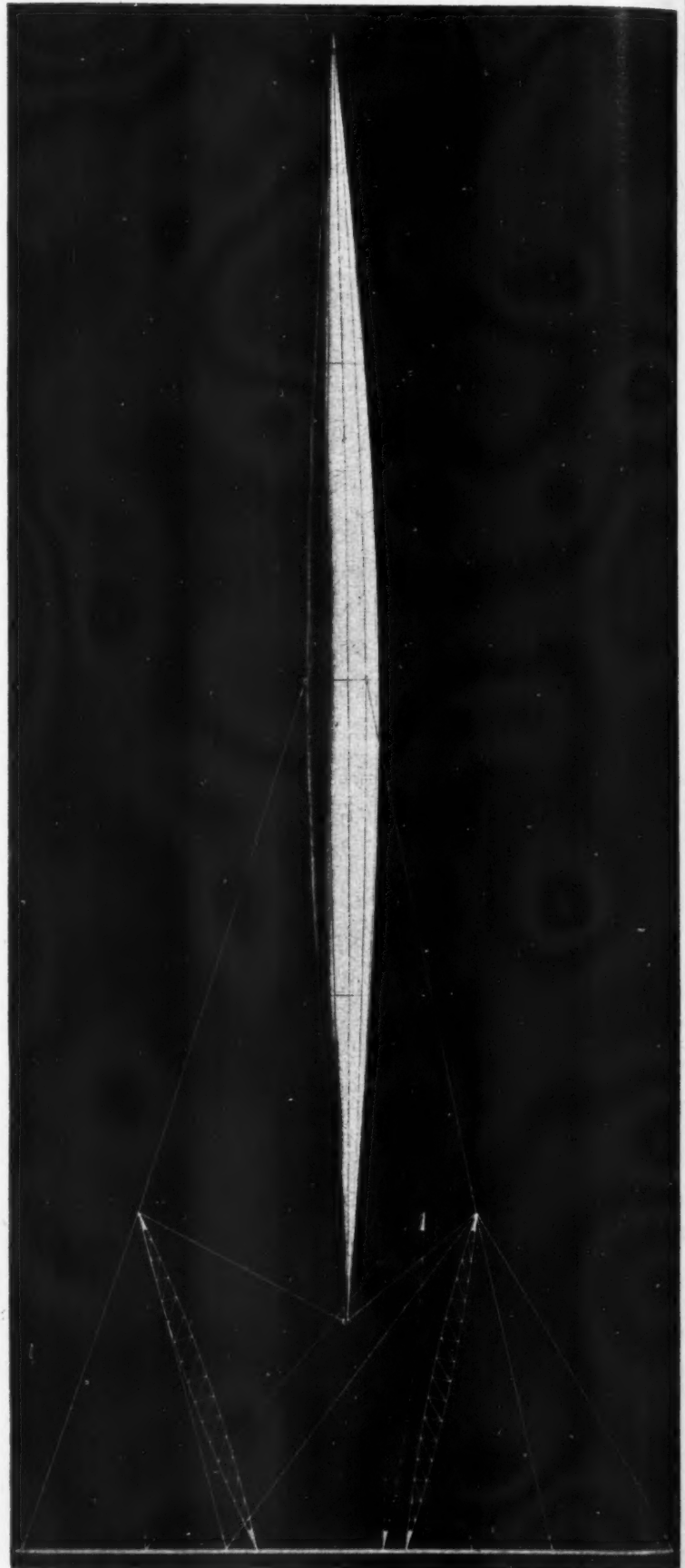
IUA

Congress at Warsaw

The Second Congress of the International Union of Architects will be held in Warsaw from September 3 to 9. The programme will include the following reports: Centres of Towns and Districts, by M. Nicolas Baranow; Housing, by Thomas Sharp; Open Spaces, by M. Tage William-Olsson; Building Techniques, by Mr. Marcel Lods; and a general report by M. Roman Piotrowski on the Present Position and Future Prospects for the Rebuilding of Destroyed and War-Damaged Towns, Re-planning of Existing Towns and the Building of New Towns.

In addition to these reports and a number of debates there will be organized visits to civic centres, public and municipal buildings, residential quarters, factories and workshops, open spaces, theatres, cinemas, concert halls and places of historic interest.

WINNING DESIGN OF VERTICAL FEATURE



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URE COMPETITION ; 1951 FESTIVAL

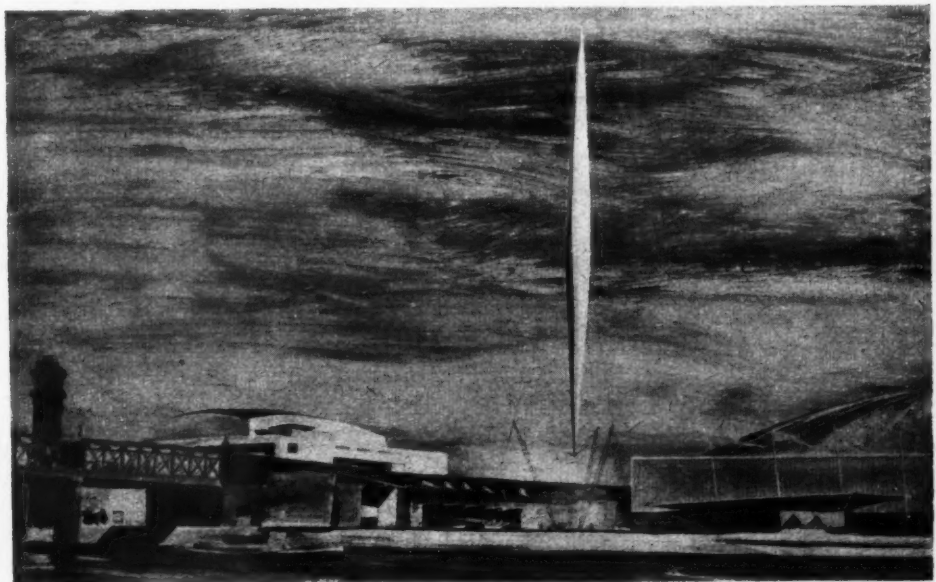
The technical report of the prizewinning entrants to this competition, Messrs. Powell and Moya, states that the aim of the design was to create a simple, dominant, vertical feature soaring upwards, in direct contrast to the complex and horizontal character of the exhibition lying beneath it. The feature, which is shown on the opposite page, is poised 40 ft. above the exhibition crowds on the large paved area below—a heavier-than-air structure which is suspended in a cradle of steel cables supported on three pylons. These pylons, less than 70 ft. high, would not stand out prominently from the exhibition buildings and might be almost lost among them. The deliberate illusion is therefore created of an unusual structure, divorced from the earth, defying the laws of gravity and yet based on simple and practical mechanical principles. Viewed from a distance, or from across the river, the feature, shining in the sun by day, as shown below, illuminated from inside by night, and reflected in the river, would by its shape act as a pointer to the exhibition. At the same time, the report points out, it is most important that the feature should be impressive, not only from a distance, but also from nearby. It is felt that, on this somewhat closely packed site, a vertical feature, solidly resting upon the ground, would lose its impressiveness from near-at-hand, however important and grandiose it might appear from a distance; its solid connection with the ground might also cut up the fine clear area of paving out of which it would rise, but when it is poised above the ground, the paved area is unbroken and exhibition visitors can walk underneath. Upward views are more dramatic under this arrangement.

The feature is a 12-sided aluminium frame, 250 ft. high, 14 ft. wide at the centre of its height, and tapering in a curve to each end, consisting of channel or "top-hat" section longitudinal members riveted to circular horizontal rings of tubular aluminium, braced with horizontal steel wire to keep their circular shape. Aluminium is chosen for its ready availability and for its lightness. No initial painting is required. The bending due to wind is taken by the longitudinal members, braced by diagonal steel wires. The structure consists of four 60 ft. high prefabricated units, constructed as described above and bolted together on site. In addition there is a top end consisting of a spun aluminium cone, 5 ft. high, and a bottom end of a solid conical aluminium casting also 5 ft. high, with eyes cast on for the attachment of guy ropes. The three main wind bracing guys are fixed to a specially stiffened ring at the mid-point in height. The external covering of the framework consists of a lattice of $\frac{7}{8}$ in. wide aluminium strips, interlaced diagonally, and leaving 2-in. by 2-in. voids. Aluminium has been chosen as the outer

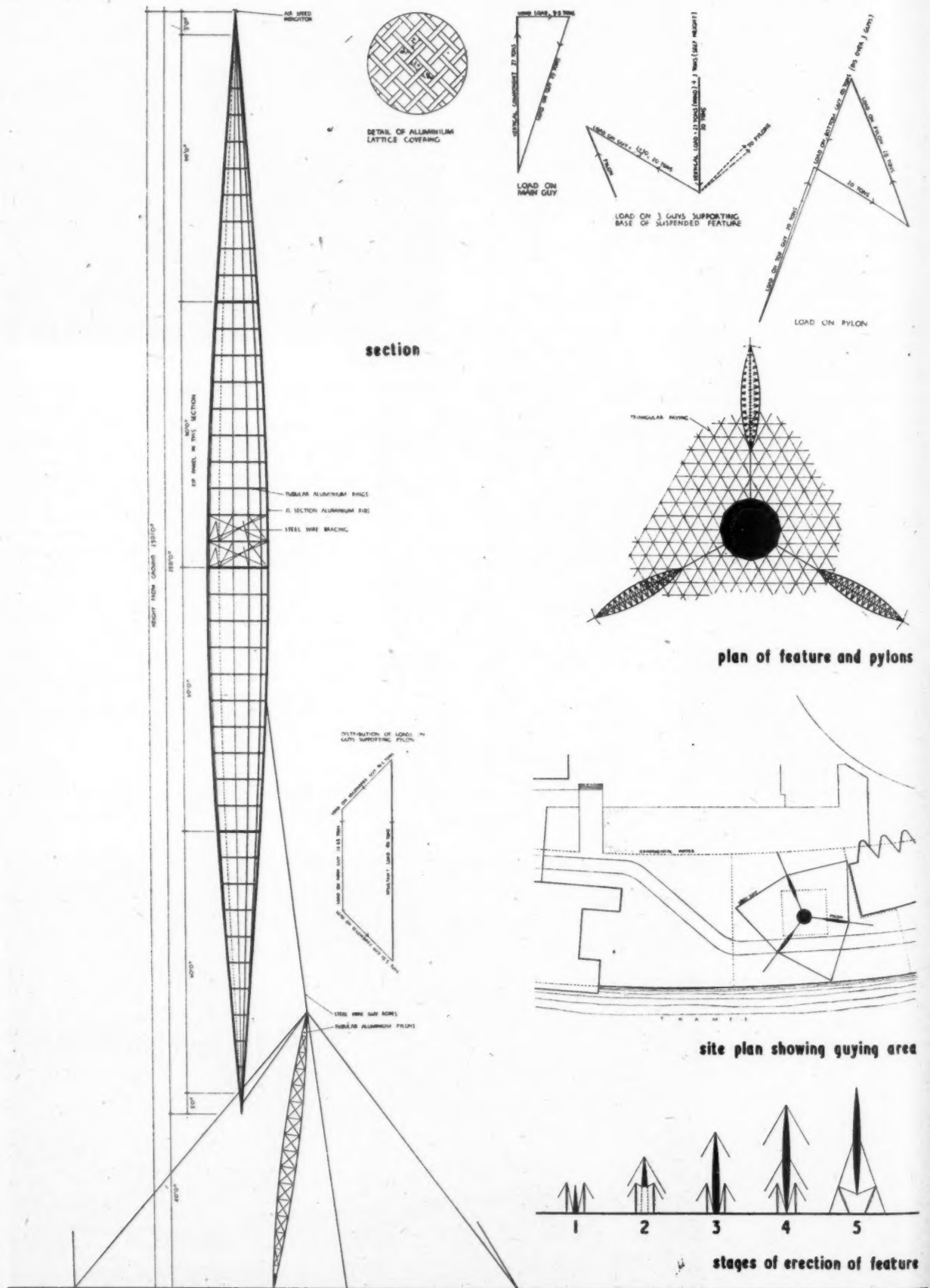


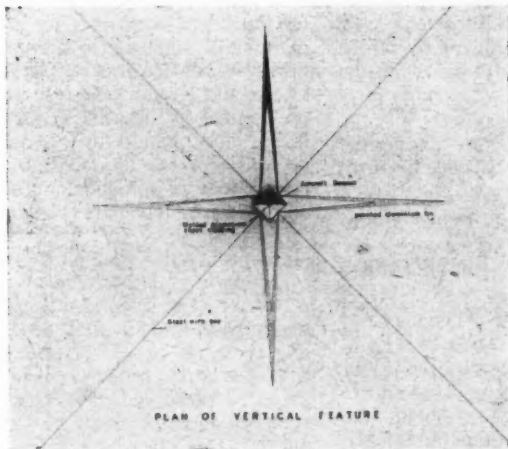
covering, as it provides a shining, brilliant finish when lit by day or by night. This covering is in the form of aluminium lacing as opposed to a light mesh on the one hand and a fabric covering on the other. The aluminium cone at the top contains an air-speed indicator. The covering of the third of the four 60 ft. high units (165–225 ft. above the ground) can be arranged as a "rip-panel," controllable from the ground. This panel could be released in this unlikely event of a wind speed of more than 80 mph. The panel would be connected by means of wires to the structure so that it would not crash down upon the paved area below. It is unlikely, however, that the "rip-panel" would ever need to be jettisoned, especially as the structure is only likely to be standing during the summer months. The three pylons, each 68 ft. high, which support the wire cradle carrying the feature, are triangular on plan and built up as an open lattice-work of aluminium tubes. Aluminium is chosen for these pylons because of the necessity for economizing in steel. They are painted black, or, alternatively, a colour to blend in with the surrounding buildings. It is suggested that the three pylons could be used as derricks for the erection of the feature.

Above, the winners of the first prize: left, Michael Powell; centre, Philip Powell, and right, Hidalgo Moya.



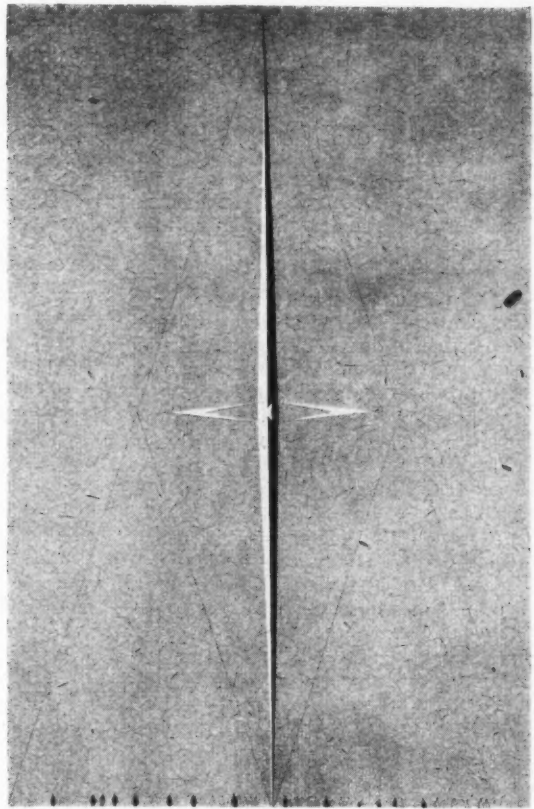
WINNING DESIGN OF VERTICAL FEATURE : DETAILS





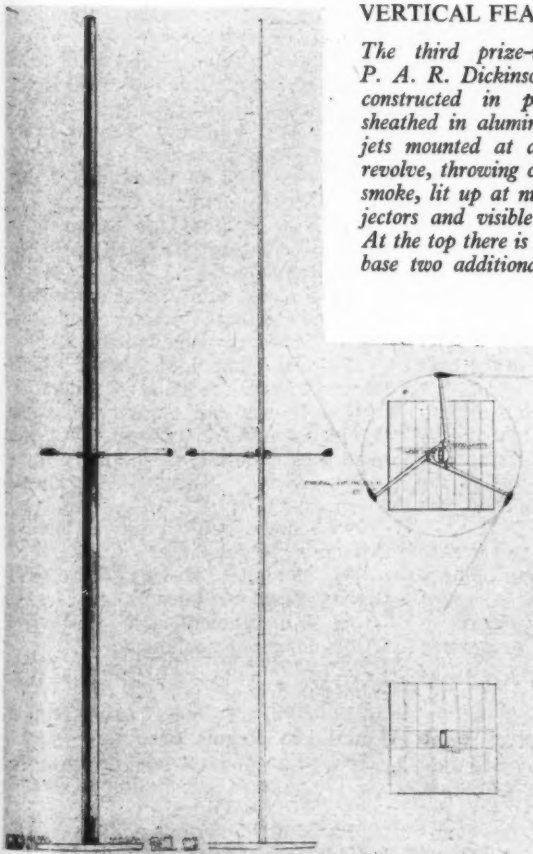
VERTICAL FEATURE : SECOND PRIZE

The design of the second prizewinner (James S. Cousins), for which a plan is shown above, and an elevation on the right, was intended to be an extension of the symbol adopted for the Festival of Britain. An aluminium-clad shaft tapers to the top and base. Attached to the shaft in the manner shown in the drawings are four polished aluminium fins, each indicating a point of the compass. The central shaft is an aluminium frame; on the outside of this frame sheet aluminium is welded to form a continuous skin. The four aluminium fins are fixed at the centre of the shaft, each having four arms for attachment. The foundation for the vertical shaft takes the form of a steel ball, itself secured in a mass concrete distributing foundation. On this rests a steel socket in the base of the shaft. The feature is held in position by a system of steel guy ropes.



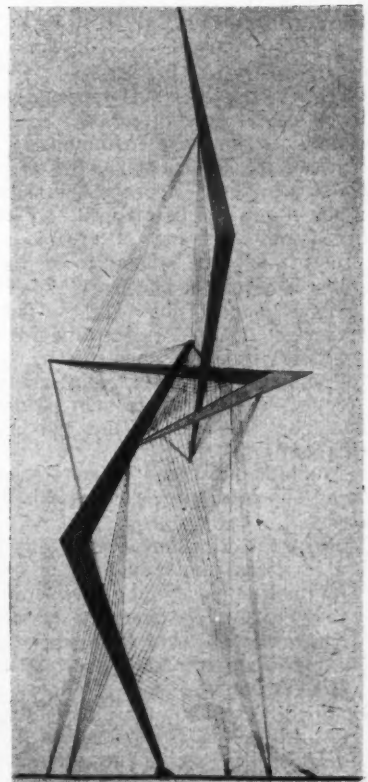
VERTICAL FEATURE: THIRD PRIZE

The third prize-winning design (left) by P. A. R. Dickinson, is 294 ft. high. It is constructed in pre-stressed concrete and sheathed in aluminium. In the centre three jets mounted at a radius of 30 ft. slowly revolve, throwing out thin plumes of chemical smoke, lit up at night by powerful light projectors and visible for miles across London. At the top there is a powerful beacon; at the base two additional flood-lights.



COMMENDED

The design on the right by A. K. Allen and G. J. Briggs received a special honourable mention. This abstract sculpture, which can be viewed from inside or out, consists of an ingenious arrangement of spans, making a three dimensional pattern.



LEGISLATION IN 1949

By ERNEST WATKINS

In the fourteenth-month session that ended in December, Parliament managed to pass over a hundred statutes of one kind and another, a full programme judged by any standard. Three of particular interest to readers—the Housing Act, the National Parks and Access to the Countryside Act, and the Land Tribunals Act. In a sense, the first two are complementary; while it is advisable to improve housing in towns, it is equally desirable to give the town-dweller a better chance of getting out into the country and of enjoying it when he gets there. The third is strictly professional. Parliament has produced during 1949 no statutory revolutions, which is a relief, since that kind of revolution takes some time to digest. The Acts of 1949, in the field of housing and planning, are of a sober vintage, born mature, a useful addition to the cellar.

Here is a selected list of statutes passed in 1949:

Tenancy of Shops (Scotland) Act. An Act giving the tenants of shops in Scotland the right to obtain renewals of their tenancies under certain conditions. (March 29.)

Public Works (Festival of Britain) Act. An Act to authorize the carrying out of the various public works planned in London to meet the anticipated traffic at the Festival of Britain. The Act exempts these works from liability to development charge. (March 29.)

Special Roads Act. An Act to set up the machinery by which special motor roads may at some future date be built, mainly to improve communications between the Midlands and the North and South West. Under the Act the projected routes can be mapped and published well in advance of possible construction for the guidance of those whose land may be affected. (May 11.)

War Damage (Public Utility Undertakings, etc.) Act. An Act to lay down a general code for payments by, and to public utility undertakings in respect of, war damage to their property including their lands and buildings. (May 31.)

Landlord and Tenant (Rent Control) Act. The main provisions of this Act are:

(a) it provides some opportunity for a review of the standard rent fixed by the Rent Acts, but only where the first letting of the premises was after September 1, 1939. (Parliament has avoided any general review of the Rent Acts.)

(b) it extends the prohibitions against taking premiums, open or disguised, on the creation or assignment of tenancies protected by the

Rent Acts or of furnished tenancies, and it provides machinery by which any premium already paid can be recovered.

(c) it extends the powers of the Rent Tribunals set up under the **Furnished Houses (Rent Control) Act, 1946.**

(d) it makes various minor alterations to the Rent Acts and to the **Furnished Houses (Rent Control) Act. (June 2.)**

Lands Tribunal Act. The general effect of this Act is to set up two Land Tribunals (one for Scotland, one for the rest of the United Kingdom) and to transfer to the new tribunal the powers and duties now vested in Official Arbitrators under a variety of earlier statutes. The more important of the functions now transferred to the Lands Tribunals are:

(a) assessments of compensation for the compulsory acquisition of land under the **Acquisition of Land Act, 1919**, and under the **Land Clauses Acts.**

(b) disputes as to the determination of development charges by the **Central Land Board**, under the **Town and Country Planning Act, 1947.**

(c) applications to vary restrictive covenants under the **Law of Property Act, 1925.**

(d) appeals under Sections 49, 62 and 87 of the **Local Government Act, 1948.**

The members of the Land Tribunals are to be appointed by the Lord Chancellor. The president must be a lawyer and the members lawyers or surveyors. (July 14.)

Prevention of Damage by Pests Act. An Act which lays down a comprehensive code for the control and suppression of pests on property, particularly rats and mice, and which imposes a number of new obligations on both the owners of property and on local authorities. (July 30.)

Housing Act. This will be the subject of a special technical leader in the near future. (July 30.)

New Forest Act. An Act overhauling and revising the statutes under which the New Forest in Hampshire is administered and the rights of the landowners and commoners in the Forest area. (Nov. 24.)

Coast Protection Act. An Act to extend the powers and responsibilities of local authorities along the coasts of the United Kingdom with regard to coast protection works and to provide how the costs of the necessary works are to be borne. (Nov. 24.)

National Parks and Access to the Countryside Act. As its name implies, this Act covers two separate subjects. The first is the creation of national parks, which involves the setting up of a National Parks Commission and the giving of the Com-

mission certain powers to initiate the defining of what are to be the national parks. The Act also declares who are to be the authorities responsible for the control of the park areas when defined, and hands over considerable responsibility to the local authority or committees of the local authorities in whose areas the parks extend. The other purpose of the Act is to clarify and simplify the general law of access to property and to rights of way over property. The general effect is to give the public, for the first time, a positive right to be on private property, provided that property is not cultivated or preserved or used as part of a residential or industrial hereditament. (Dec. 16.)

War Damage Sites Act. An Act permitting local authorities to take over on short tenancies derelict sites of war damaged buildings, etc., in their area and to clear and lay them out as gardens until such time as there can be some permanent development. (Dec. 16.)

Statutory Instruments, 1949.—

74/S.4.—**Town and Country Planning (Development by Local Planning Authorities) (Scotland) Regulations.**

86.—**National Insurance (Classification) Amendments Regulations.**

195.—**Town and Country Planning (General Development) Amendment Order.**

507.—**Compulsory Purchase of Land Order.**

1025.—**Town and Country Planning (Erection of Industrial Buildings) Regulations.**

1026/S.67.—**Town and Country Planning (Erection of Industrial Buildings) (Scotland) Regulations.**

1096.—**Landlord and Tenant (Rent Control) Regulations.**

1102.—**Control of Building Operations (No. 13) Order.**

1193/S.76.—**Claims for Depreciation of Land Values (Scotland) Amendment Regulations.**

1194/S.77.—**Claims for Depreciation of Land Values (Mineral Undertakings) (Scotland) Regulations.**

1257/S.90.—**Landlord and Tenant (Rent Control) (Scotland) Regulations.**

1473.—**Town and Country Planning (Control of Advertisements) Amendment Regulations.**

1511.—**New Towns (Occasional Licences) Order.**

1996.—**Town and Country Planning (Minerals) Regulations.**

2088.—**Rural District Councils (Urban Powers) Order.**

2168.—**Government Oil Pipe-Lines (Amendment) Regulations.**

2243.—**Planning Payments (War Damage) Scheme.**

2233.—**War Damage (Contribution Liabilities) Regulations.**

2263.—**Lands Tribunals Rules.**

2278.—**Control of Building Operations (No. 14) Order.**

2335.—**Lands Tribunal Act (Appointed Day) Order.**

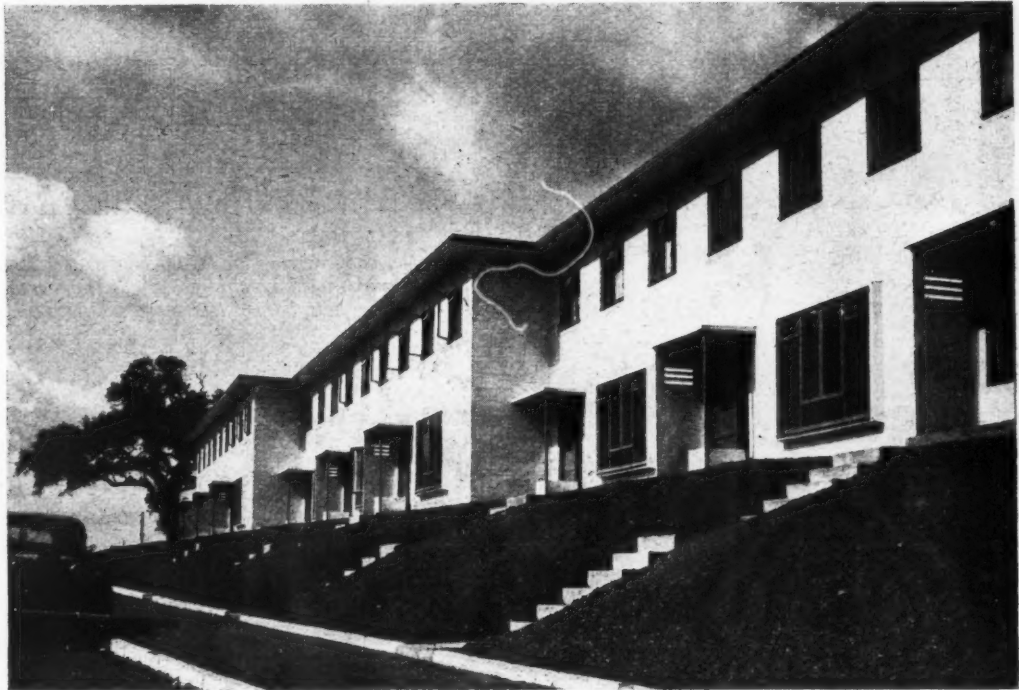
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A review of the most notable buildings of the year just ended is a regular feature of the JOURNAL's New Year issue. A tradition of outspoken criticism on this occasion was established by Prof. Sir Charles Reilly who contributed this review for no fewer than twenty-two years. The JOURNAL feels more than ever justified in keeping up the same tradition in view of the demand for frequent and frank criticism of current architecture that was made on several occasions during the past year, especially during the discussions that followed and supported the JOURNAL's own criticism of LCC housing in the summer. The JOURNAL is therefore confident that architects will take any critical comments that occur in the following article in the spirit in which they are intended. The article moreover, is written round the writer's selection of the best buildings of the year, so the occasional mild criticisms can be set against the compliment implied by the inclusion of the building concerned among the illustrations.



Part of a large housing scheme at Newport, Monmouthshire, by J. Blackett, borough architect.

BUILDINGS OF THE YEAR : 1949

Reviewed by J. M. RICHARDS

IT is still housing we chiefly think of when we consider present-day building activity, though schools and factories now come a good second. And housing means local authority housing—flats in the big towns and two-storey houses elsewhere. There are plenty of ugly council houses being dumped down on ill-considered sites or strung out in a line along main roads, but generally speaking a real advance has been made since before the war in the intelligent siting and grouping of local authority housing schemes, largely due to the efforts of the Ministry of Health whose new housing manual lays further stress on this point. It may be worth mentioning, nevertheless, that it is not good planning to avoid a main road frontage simply by turning a row of houses round to face a parallel service road, so that they present their untidy backs, adorned with washing and assorted wooden shacks, to the public road.

But this and other prevalent faults can be cured by further propaganda, and by the example of work done elsewhere. The main thing is that many local authorities now mind about appearance in a way they never used to. To represent the sort of efforts that are being made by the more enlightened local authorities—and particularly the welcome tendency to return to fairly compact terrace layouts—I have chosen part of a large scheme at Newport, Monmouthshire, by the borough architect. In spite of some crudities of detail, this scheme earns high marks for a judicious mixture of repetition and variety and for regarding a sequence of terraces as an architectural whole. The split up into small units was a natural reaction against the squalid monotony of the nineteenth century byelaw streets, but it is time Britain showed the world she is good at something else besides endless country cottages.



Above, housing at Downham Market by H. C. Hughes and Peter Bicknell. Terraces of four houses each are grouped round a central green. Below, housing at Sunbury-on-Thames, part of a scheme containing flats, terraces and bungalows by Basil Spence and Partners.



H O U S E S

A similar linking of houses into terraces and a well conceived grouping of units are found in two exceptionally agreeable smaller schemes, also of traditional construction, designed for local authorities by private architects, one by H. C. Hughes and Peter Bicknell in East Anglia and the other by Basil Spence and Partners in the Thames Valley. Both show greater refinement of detail than the Newport houses and a more interesting use of material. What is more remarkable—seeing that they were not chosen for their resemblance—is their similarity of style, suggesting that an accepted idiom for small house design may now be establishing itself, using proportions and mannerisms that future historians will identify as belonging quite unmistakably to the mid twentieth century.

The most obvious features they have in common are the squarish window with unequal subdivision, the sharply pro-

jecting box-like window surround, the low roof-pitch (here seen only in the lower example), the flat slab over the porch and the exclusive use of gable ends. The hipped roof seems to be definitely out, though perhaps the cause is timber economy as much as fashion.

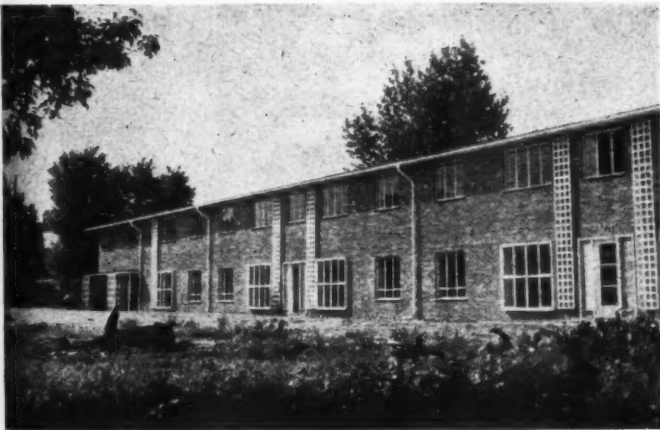
The houses at Hornchurch on the facing page, though built like the others for a local authority, are more revolutionary in appearance. This is a natural result of their experimental construction: brick party walls as the only load-bearing walls; space frames between on which the asbestos roof is laid and from which the first floor of each house is suspended, allowing complete freedom of planning on the ground floor and allowing the outer walls to be built without foundations, like partition walls. It is an interesting method in that it allows a fair degree of prefabrication without using techniques foreign to the ordinary contractor. The

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Above, houses at Hornchurch by Denis Clarke-Hall and L. W. Elliott.
Below: left, old people's flats, Beehive Lane, Ilford, by L. E. J. Reynolds, borough engineer (architect in charge, R. C. Edleston); right, two houses at St. Albans the top one by K. P. Roberts and the other by Michael Meacher. The latter is for the architect's own occupation.



construction is logically expressed externally, though the marked projection of the party walls beyond the building face has a somewhat heavy effect and produces a not too happy conflict between a vertical and horizontal rhythm.

There has been a welcome tendency in recent housing schemes—even those in crowded urban areas—to mix small-scale houses or maisonettes with the usual tall flat blocks wherever the required density allows, thereby producing a more various and human effect. Interest has also been shown in making special provision for old people. The Ilford terrace on this page is an example of both. The old people's flats are arranged on two floors with a large common room at the end of the block, and it is planned in conjunction with a seven-storey flat block that is still to be built. It is of normal brick and concrete construction and the exterior is neat and agreeable enough if without the same charm of proportion as the houses

on the facing page. The photograph is perhaps a little unfair to it, as the angle from which it is taken cuts off the low-pitched roof altogether.

It, too, has the box-framed window I have described as one of the hall-marks of 1949. It would be interesting to discover exactly when this motif came in. I remember it being effectively used in some small brick houses built by Tecton at Haywards Heath in 1936, but there may be earlier examples. The trellis for growing plants beside each living-room window of the Ilford flats is a good idea that other local authorities might copy.

To show that the individual private house was not completely impossible, even in the straitened circumstances of 1949, I have included two examples, both of which keep within the 1,000 foot floor area limit. The lower one, for the architect's own occupation, is neatly designed in its diagrammatic

FLATS

Right, flats on the Pollok estate, Glasgow, by the director of housing. Below, flats at Finsbury by Tecton.



fashion. It has a one-pitch roof—a convention that looked like becoming another fashion a few years ago but is now seen less frequently—and both have the style of porch and window already referred to.

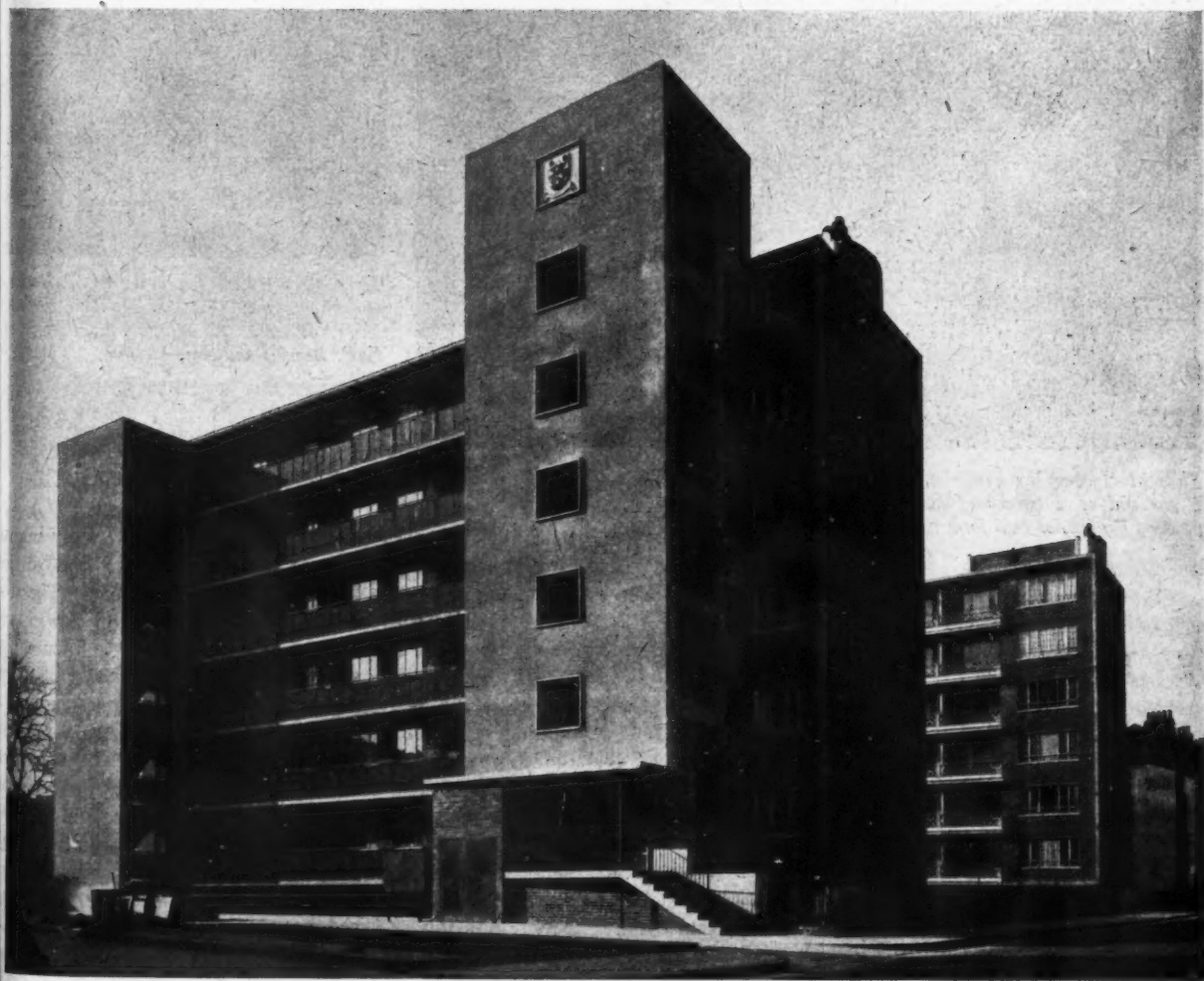
And now for flats, still—anyway in London—the category of building that is producing the greatest change in the skyline of big cities since the changes brought about nine years ago by bombing. Too small a proportion of the huge schemes on which nearly every borough is engaged result in architecture that can be called a credit to the metropolis. The need for cutting costs to the minimum and the insistence on greater densities than some sites should reasonably be asked to bear partly accounts for their grimness and lack of charm, but only partly. The flats chosen for illustration here prove that good design can overcome these difficulties. An important event of the year has been the controversy about the design of the housing produced in the Valuer's Department of the

LCC. The Council have taken the right decision in transferring the responsibility to the architect, and in two or three years' time LCC flats may begin to qualify for inclusion on these pages.

All the flats illustrated were designed for London metropolitan boroughs by private architects, except the first one, which is part of a large mixed scheme at Glasgow of 5,200 flats and houses by the director of housing. It shows a solidly competent, unpretentious standard of design throughout, only marred by occasional lack of refinement in the details. The Tecton block at Finsbury is less inhibited by the need for cheapness than most of the others, the plans having been approved before the latest cuts were imposed, but much of the extra cost has gone into equipment, the only evidence externally of non-austerity design being the use of glazed tiles on the end wall and balcony fronts—an excellent



Left, flats at Kenmure Road, Hackney, by Edward Mills. Above, flats at Denmark Road, Lambeth, by G. Grey Wornum. Below, flats at St. Pancras by Robert Hening and Anthony Chitty.





Flats at Hackney by Frederick Gibberd. On the right is the end of a terrace of houses and beyond the old people's bungalows that form part of the same scheme.



Top of page, flats at Poplar by W. J. Rankin, borough engineer (principal assistant architect, C. H. Weed). Above, flats at Highgate by T. P. Bennett and Son.

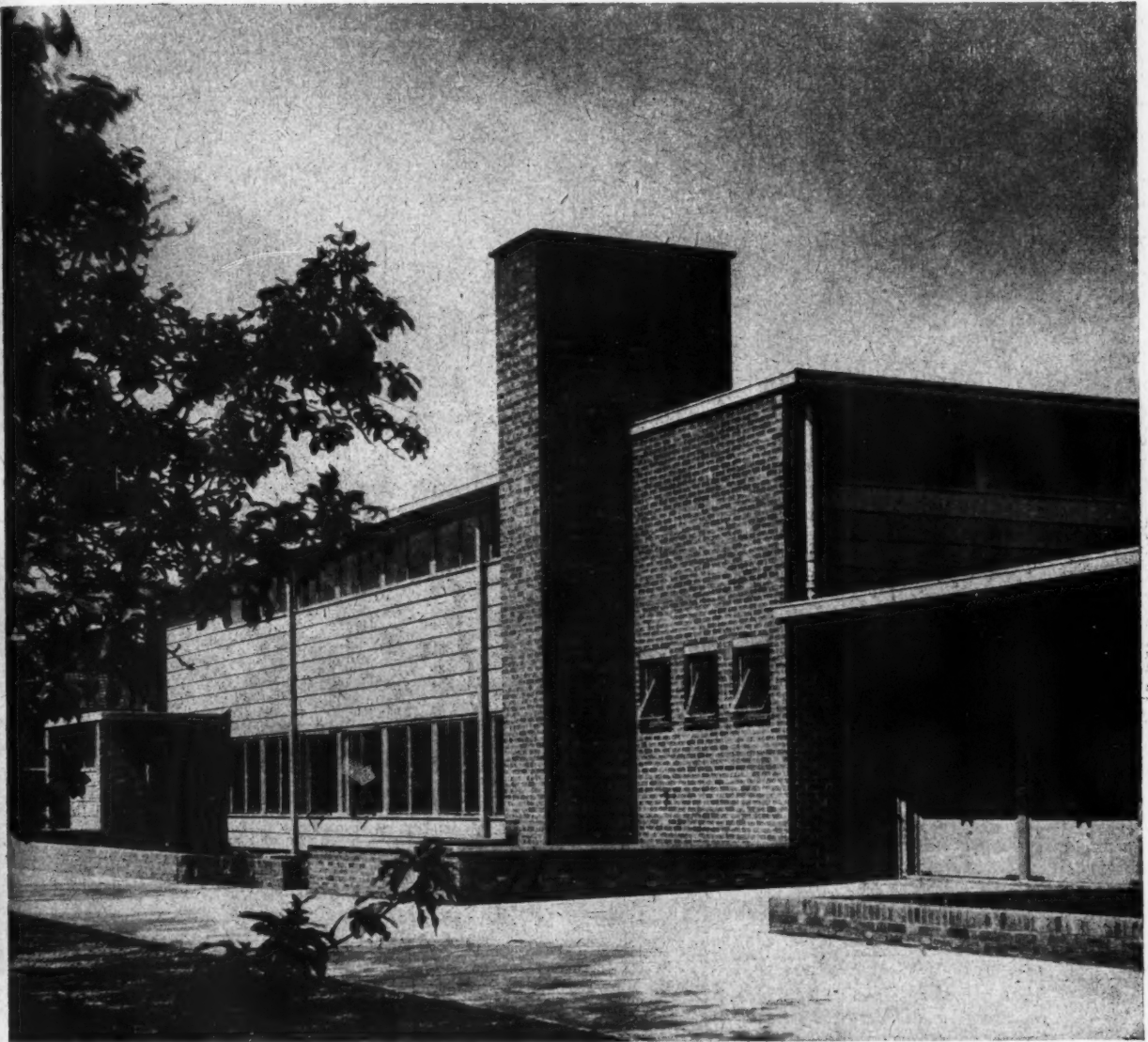
FLATS

answer to the problem of how to face concrete surfaces in towns, but an expensive one. Though there are minor faults elsewhere, the elevation shown in the photograph is a most interesting—and an unusually sophisticated—study in modelling, showing how relief and refinement can be given to the usual slab-like façade of the tall block of flats.

Edward Mills at Hackney tackles the same problem lucidly on a smaller scale and likewise provides a private sheltered

balcony. Mr. Wornum, at Lambeth, is more conventional in that he does not attempt to break up the wall surface, which remains a flat plane pierced by windows. The total effect is a little insipid and the corner balconies not entirely happy, but the scheme has reticence and refinement of detail. Insipid is something that Mr. Chitty's flats off Grays Inn Road certainly is not. Instead they have vigour and character and a confident interplay of masses. Whether the character is altogether an attractive one I am not so sure. I like them less than the same architect's very able Theobalds Road scheme of the year before; the detail is a little mean in places and there is a certain brutality which, incidentally, will not be improved with the passing of time unless the bare concrete surface of the towers weathers better than this material has done elsewhere.

On this page is one example—at Poplar—of a pass-



Rushmere Hall junior and infants' school, Ipswich, by Johns and Slater (chief assistant, Birkin Haward): the assembly hall from the south with the main entrance to the school on the right.

S C H O O L S

able housing scheme by a borough engineer and his architectural assistants. The lay-out lacks variety and the finish is somewhat rough and ready, but it is a thoroughly sound workmanlike job. Mr. Gibberd's very interesting scheme at Hackney was included in last year's survey though not quite finished. It deserves another mention because it has set a new standard in the planning of flats, maisonettes and houses round a series of squares so as to preserve a human scale. No other post-war scheme of high density has achieved the same charm of character. Some of the detail verges on the whimsical, but the whole has a sensitive, imaginative quality that shows it the work of an artist. Finally, Mr. T. P. Bennett's flats at Highgate—across the road from the celebrated Highpoint group—are included, in spite of their rather boring adherence to the stylistic convention of Georgian residences piled one on the other, because of the

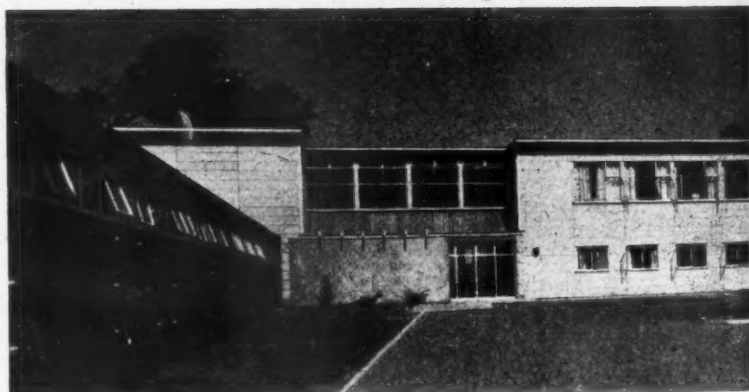
treatment of the site; the blocks are freely disposed on it to admirable effect, suggesting that the planning of flats is at last making its escape from enslavement to the road frontage and the enclosed court.

Next to housing, schools are the most active category of building, and if the amount of promising experimental design is the criterion, the outstanding category of all. Hertfordshire has not lost its leading place; the school at Hitchin, chosen to represent their 1949 schools, shows that the county architect's department is not only continuing to turn out well considered buildings according to the now agreeably familiar pattern, but is reaping the benefit of its intelligent campaign strategy, each school forming another step forward, as it were, in a well-planned advance. Hertfordshire have also become pioneers in a new field: the use of colour in school interiors.



School at Manford Way, Craguall, Essex, by H. Conolly, county architect: juniors' entrance with classrooms on the right.

Right, school at Stevenage by Yorke, Rosenberg and Mardall: looking towards one entrance with the staff and library block on the right.

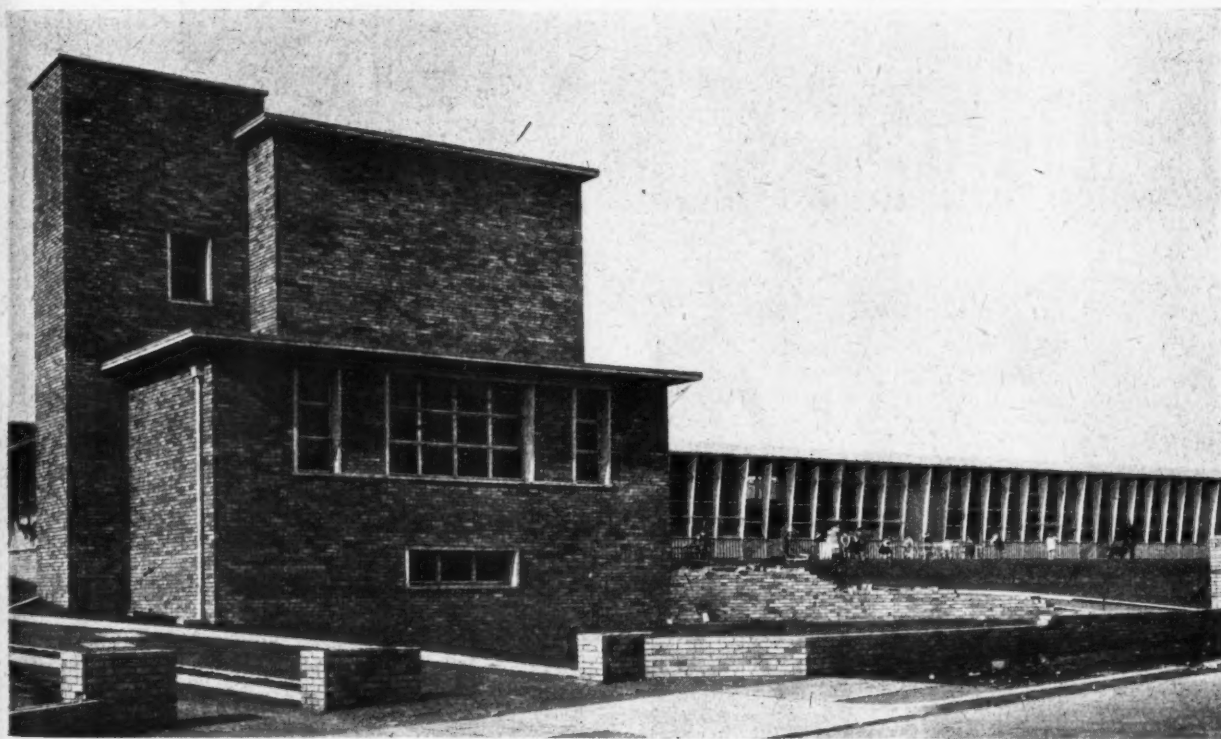
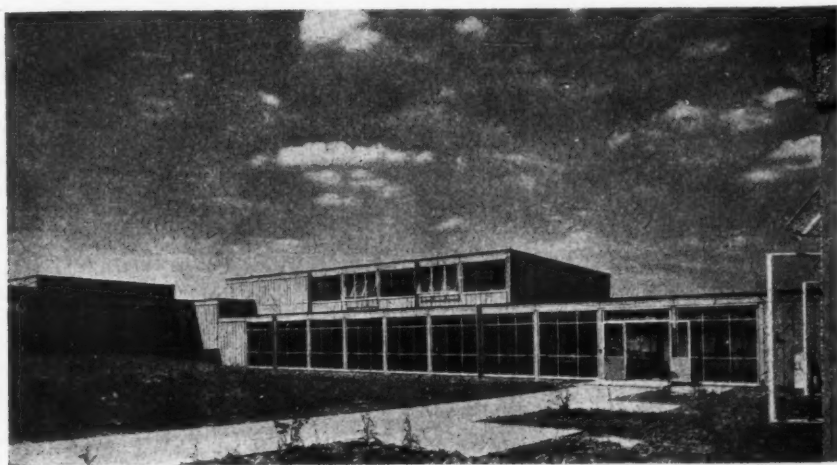
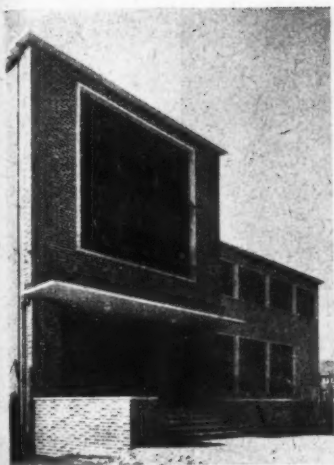


S C H O O L S

But other counties have now come into the picture too: Suffolk (see previous page), and Essex in particular; still others have schools nearing completion. The Suffolk school is one of two completed during the year at Ipswich by the same private firm of architects. Both show a refreshingly direct handling of materials and a solid honesty of expression that is likely to wear better than many sophisticated exercises in the modern style. The same applies to the new schools by the Essex county architect, of which that illustrated is one of at least a dozen. School design—like small house design—seems already to be producing an idiom of its own, witness the vertical element of solid brickwork, contrasting with horizontal wings containing ranges of linked windows, common to the Suffolk and Essex schools and the Bristol school, by the city architect, illustrated on the facing page. These massively treated brick towers, rather Dutch

in character, give weight and vigour to the composition in each case, but it is somewhat disconcerting to discover that one of them is a water tower, another the upper storey of the administrative offices, and the third has no functional justification for the dominant part it plays in the design. An element of clumsiness in some of these schools is offset by a frank use of materials, an engaging simplicity and thoughtful planning. The school planners, it seems, are at last collaborating fruitfully with the educationists.

Back again in Hertfordshire the new town of Stevenage has got off to an impressive start with a large mixed secondary school, also containing a community centre, by Yorke, Rosenberg and Mardall. It has a more mature and sophisticated character than the schools just described, and an unusual variety of materials has been used without disturbing the relationship of parts. In 1949 the LCC came into the



picture with several completed schools. These do not quite reach the standard of the other schools illustrated here, being somewhat crude in form and insensitive in detail, but the planning is competent. One of the best of them—that at Horn Park—is illustrated here, in expectation of good work in the near future as a result of the new blood recently injected into the schools department.

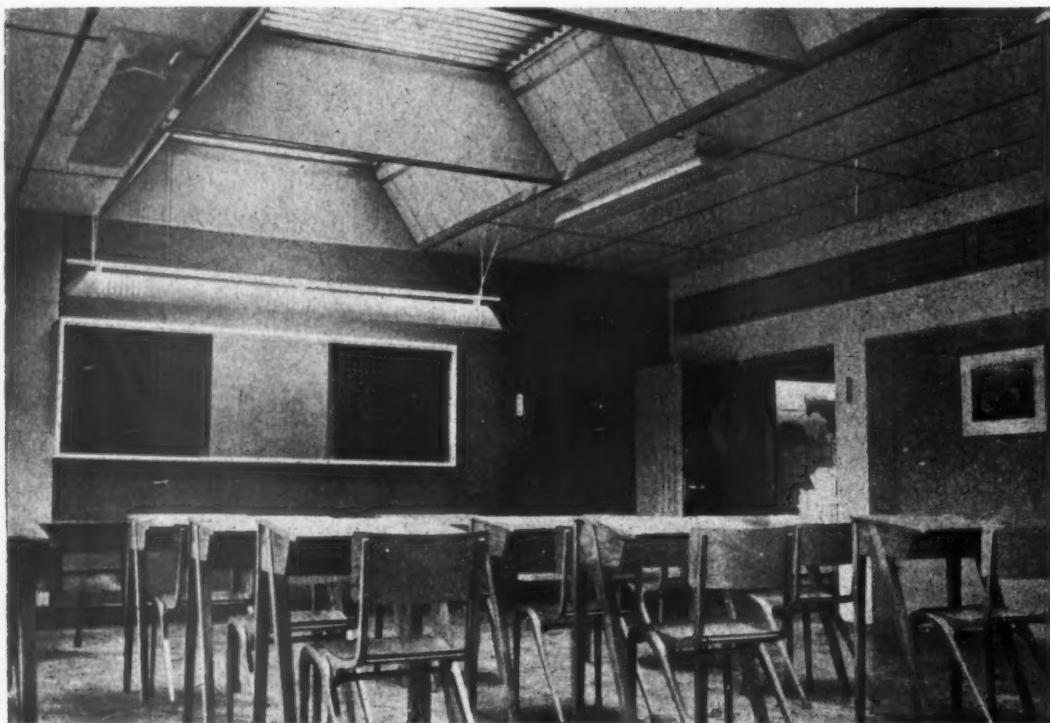
The Bristol school illustrated is notable for the fact that the two classroom wings, one of which is shown on the right of the photograph, are built out of prefabricated aluminium units. School building has lately been the subject of a number of interesting experiments in the use of standard ready-made components, a logical outcome of the need for speed in construction and of the fact that school planning clearly lends itself to modular design. Educational requirements are in a state of constant change, so the flexibility afforded by the

Top left, Horn Park primary school by the LCC Architect's Department (R. Wilson, schools architect). Top right, school at Hitchin, Herts, by the county architect's department. Above, school at Romney Avenue, Bristol, by J. Nelson Meredith, city architect.

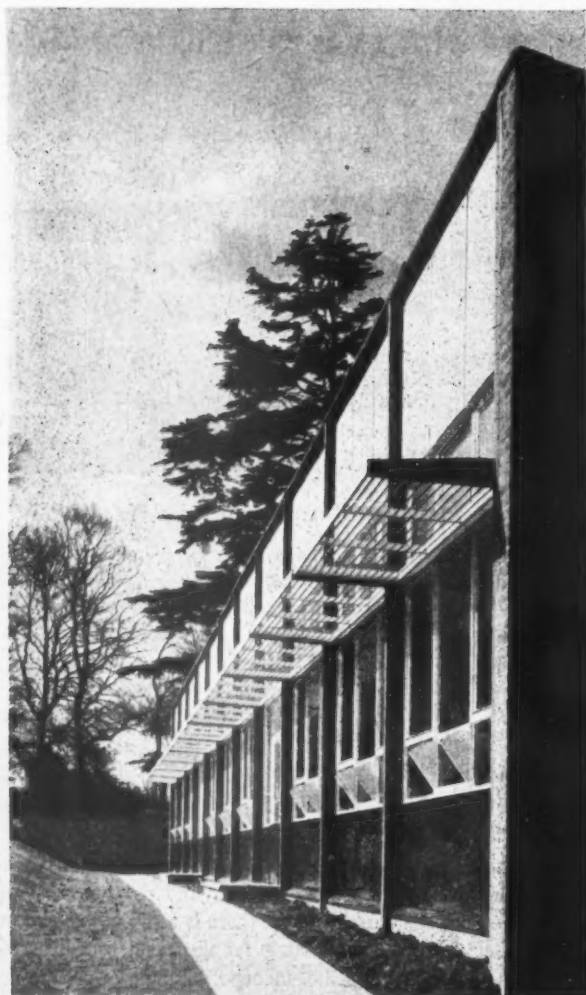
use of standard components that can be added or subtracted is specially to be welcomed.

Besides the standard aluminium classroom unit used at Bristol, which has a pleasant character and rhythm deriving directly from the structural system, there is also one by Arcon, made of steel sections supporting tubular steel roof trusses.

It is on a rather larger scale, incorporating an approach cor-



Above, experimental classroom by C. G. Stillman, county architect, Middlesex.



Left, prefabricated school classroom unit by Arcon: a prototype three-unit wing erected at Hatfield for the Herts County Council.

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ridor in the unit, and is based on a module of 8 ft. 3 in., which is also the basis of similar assembly hall, gymnasium and practical room units. The prototype building at Hatfield illustrated here contains three classrooms. Mr. Stillman, the Middlesex county architect, who did much valuable pioneer work on prefabricated construction for school buildings during the war, when he was county architect of West Sussex, has now designed a prototype standard classroom which is being studied by the Ministry of Education. He has given special attention to lighting and the avoidance of glare and is aiming at a more domestic—as distinct from an institutional—character.

I come next to the architecture of transport, to which category 1949 has contributed at least one most satisfactory—though at the same time very simple—building: Mr. Oliver Hill's dramatically arched bus station at Newbury Park. The reinforced concrete barrel vault is covered with copper. The

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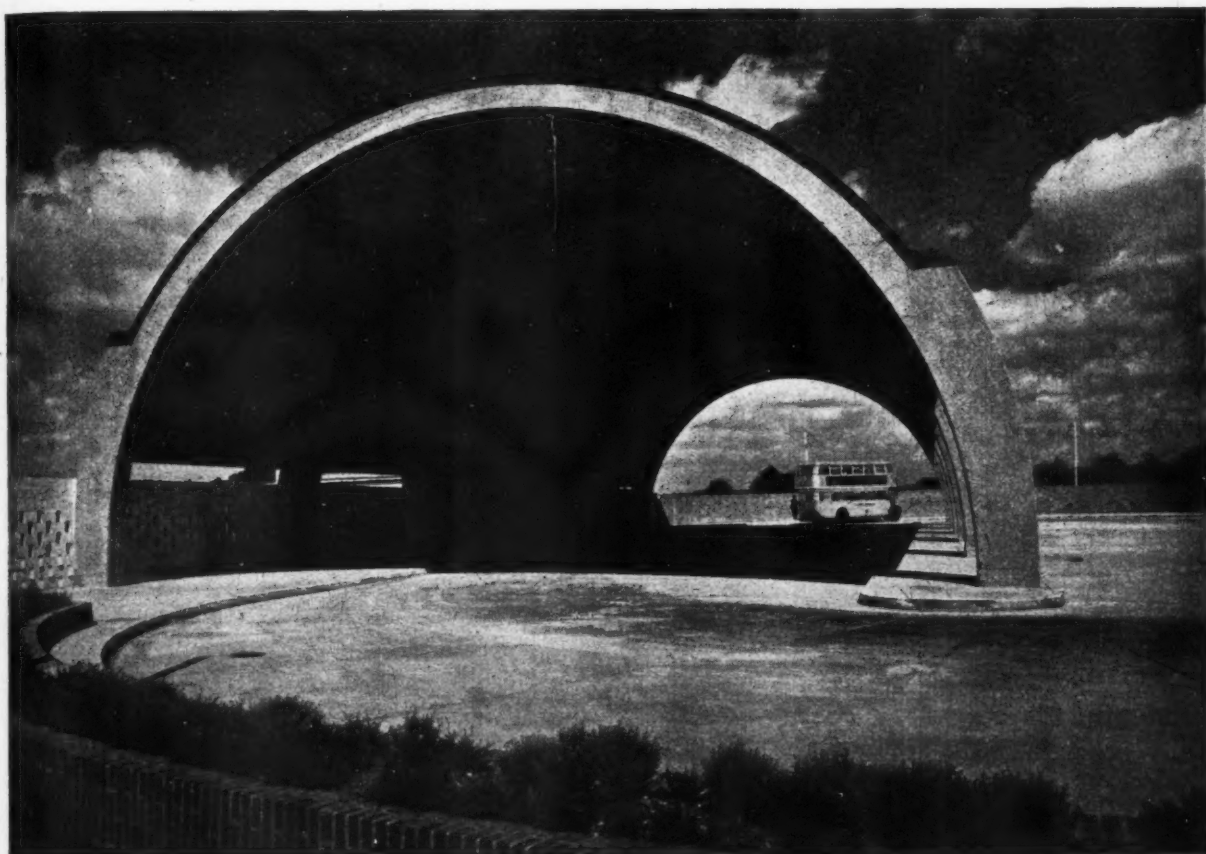
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TRANSPORT

Right, interior of SS Rangitoto (New Zealand Shipping Co.) by Easton and Robertson: bar on A deck.



Below, bus station at Newbury Park by Oliver Hill: end view of the covered bus yard, a reinforced concrete barrel vault covered in copper.



ribs have an exposed shingle aggregate. It is a good example of the able exploitation of a single logical idea.

Sea transport is a field in which the sense of fitness that the architect can bring to it is badly needed. Too often the interior decorator is called in merely to make the inside of a liner indistinguishable from that of a fashionable hotel. Recently Brian O'Rourke has worked alone in attempting to produce a genuine nautical style. Mr. Howard Robertson's entry into this field is to be welcomed and an interior in his "Rangitoto" is illustrated here: still a fraction hotel-minded but sturdy and ship-shape in its details.

The only other notable transport buildings are concerned with publicity rather than performance, and could equally well have been classified under shops. Illustrated on the next page are a modest little kiosk, with an agreeably temporary character, put up for British Railways at the Tring agricul-

tural show, together with the two most distinguished of several travel offices that have opened in the west end of London during the year. The Pan-American airways office in Piccadilly is impossible to photograph adequately, as its charm lies in the huge plate-glass window through which a lofty, brightly lit interior is seen at one glance from the pavement, and the skilful way the entrance has been set back to provide a triangular extension of the pavement beneath the overhang of the building. Some of the details of the furniture and fittings strike one as too consciously *de luxe*, but perhaps that only reflects the character of transatlantic air travel. The architect has been most successful in giving the harassed Piccadilly pedestrian a glamorous vision of a more opulent world, which has sometimes been spoilt lately by tasteless advertising displays in the front part of the window. These no doubt are outside the architect's control. The Swiss tourist office in the

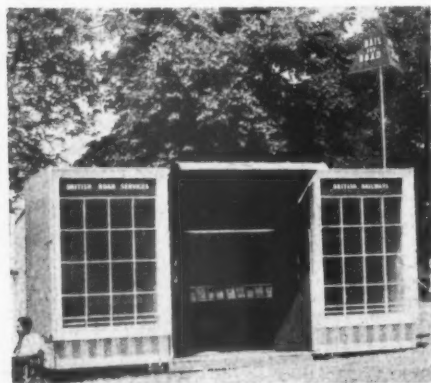
TRANSPORT

Booking hall and offices in Piccadilly, London, for Pan American World Airways by Gerald Lacoste. The fascia and sheathing of the columns are of aluminium.



Interior of Swiss Tourist Office, Strand, London, by Alfred Roth of Zurich (associated architects, T. P. Bennett and Son).

Below, inquiry kiosk for British Railways and British Road Services at Tring agricultural Show by James Gardner.



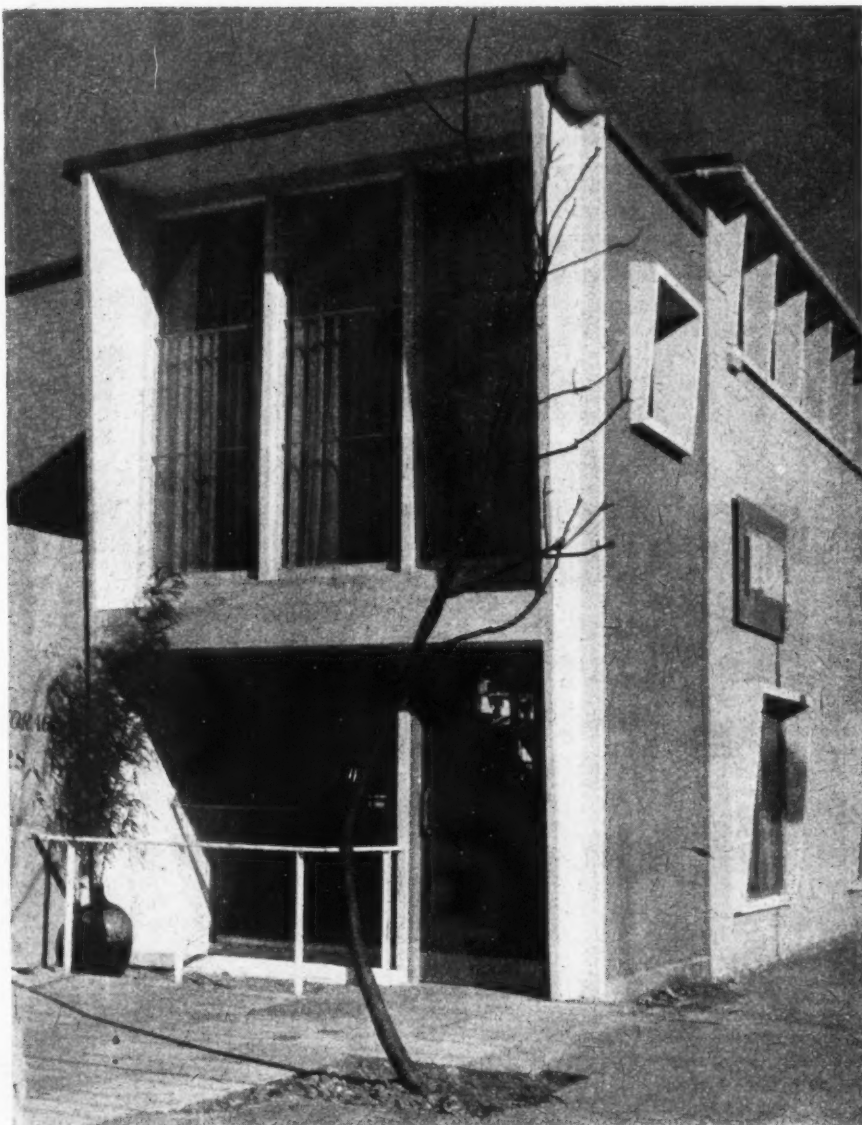
Strand—fitting snugly into the stone frame of one bay of South Africa House—is by a well-known Swiss architect, and shows all the distinction with which the Swiss customarily handle materials in detail, especially woods. European architects have a maturity of style in this kind of display design which we in this country cannot yet aspire to.

Nowadays shop architecture generally consists of display work and the design of fittings rather than the construction of new buildings, but Mr. Bertram Carter has achieved a temporary shop, for use until a new building becomes possible, on a site in Bromley, which deserves high marks for bold expressive modelling. To represent redesigned shop interiors Mr. Chadwick's suavely finished new Liberty's has been chosen because of the added interest of this citadel of the arty and the antique having become a convert to modern design. To represent new shops a recent one in Bond Street, by Michael

Rachlis, has been chosen because it shows how the display and storage of goods (in this case rolls of woollen cloth) can be made to provide a decorative motif, and how architectural fashions—the background of the photograph is a random rubble wall—which easily become tiresome elsewhere, can legitimately be used to give a modish touch in a showroom, as long as they are handled with the discretion exhibited here.

Industrial buildings are at last going up apace, though they are naturally less in the public eye than blocks of flats. The most important of the year is undoubtedly the range of buildings at Filton for the Brabazon aircraft by Eric Ross, architect to the Bristol Aeroplane Company. I illustrate some of the ancillary buildings rather than the triple assembly hall round which they are grouped. The impressive effect of the assembly hall is largely derived from its immense size, which is difficult to represent in a photograph. It also posed a prob-

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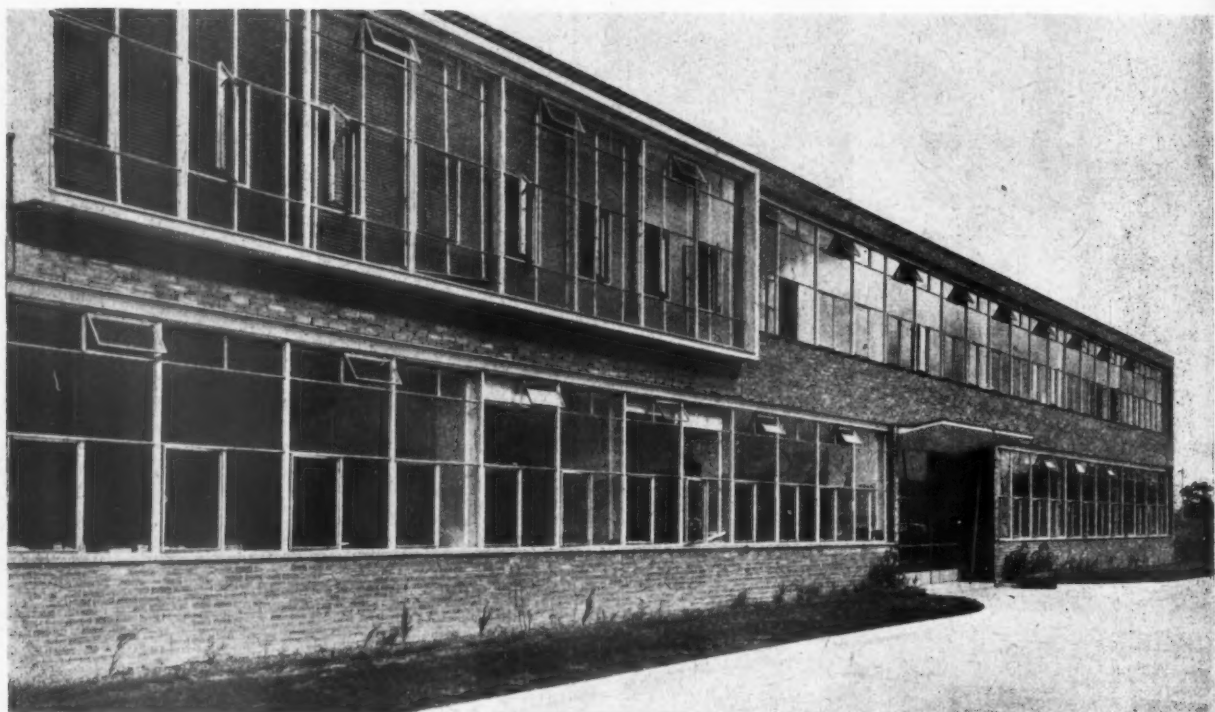
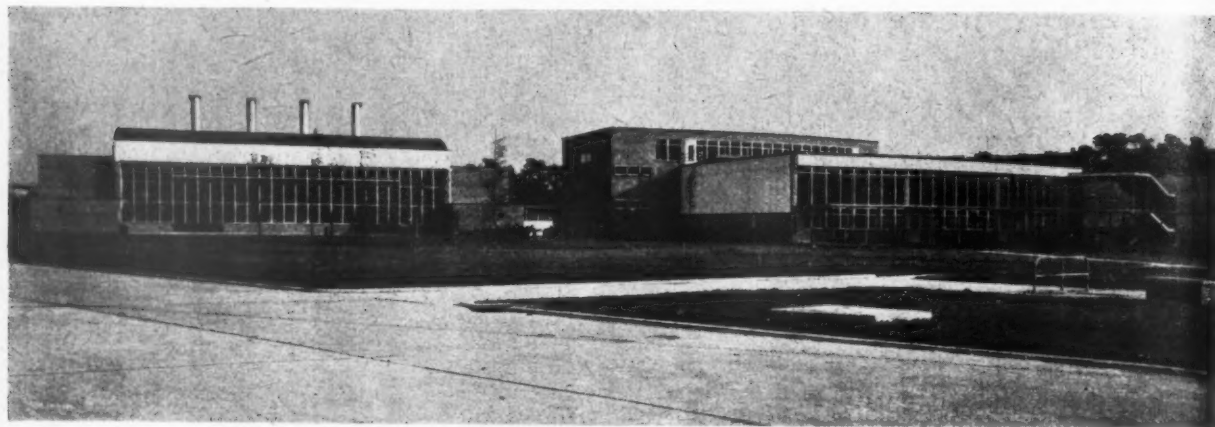
Temporary furniture shop at Bromley by Bertram Carter.

Below, Liberty's, Regent Street, redesigned internally by Hulme Chadwick: the ante-room to the women's clothes showroom.



Below, interior of a shop in Bond Street by Michael Rachlis.

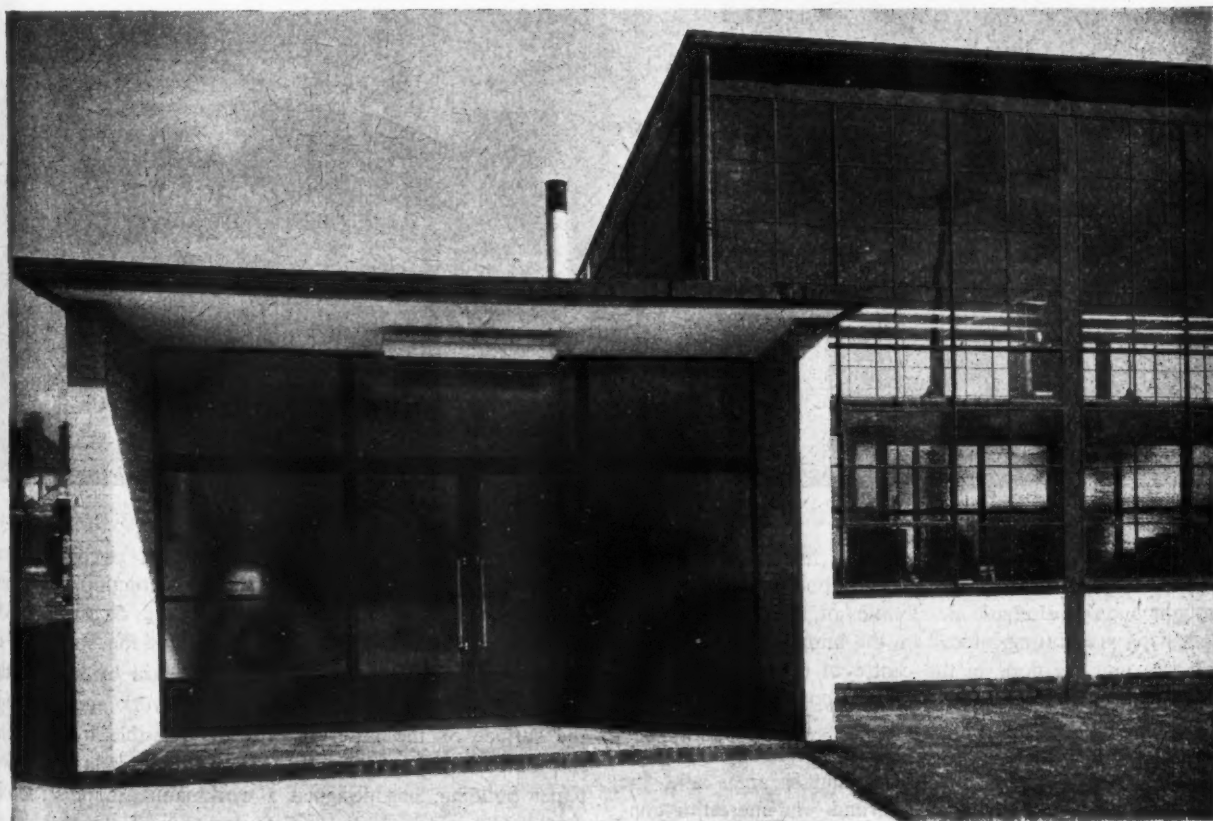
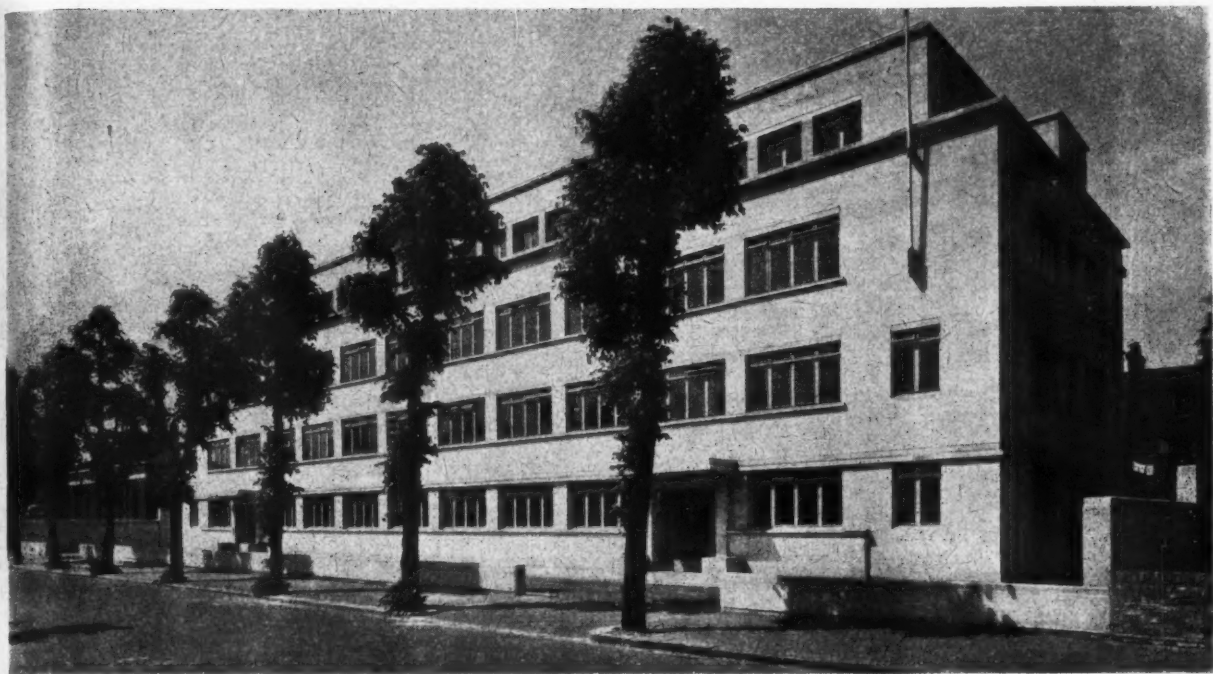




lem for the architect: that of preventing such a mass—a building of which the main door and the main window are each a thousand feet wide—from dwarfing everything round. But Mr. Ross has succeeded admirably by linking the smaller buildings together into simply articulated groups, by a broad architectural treatment, relying chiefly on contrasting materials, and by keeping his detail simple but in bold geometrical relief.

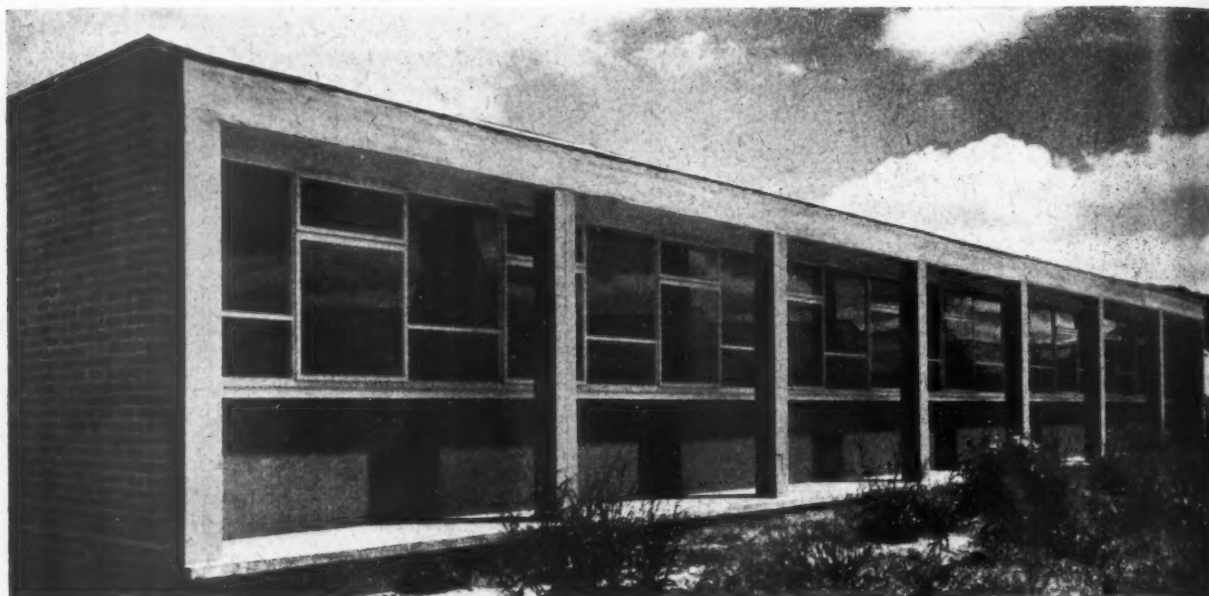
The scheme is also notable for the care with which the whole site has been laid out and grassed over, giving an effect of neatness not generally associated with industrial enterprises. The other buildings on this and the facing page provide further evidence that heavy industry is beginning at last to value the orderliness the architect can bring to it as well as his training as a planner. Mr. Gibberd's scheme is particularly significant in this respect. It must be the first





INDUSTRIAL

Top of facing page, boiler house and canteen at Filton, Bristol, by Eric Ross, adjoining the Brabazon assembly hall. Centre, factory at Gateshead by Yorke, Rosenberg and Mardall. Bottom left, steel rolling mill at Scunthorpe, by Frederick Gibberd: the electrical sub-station. This page: top, offices at Hammersmith by Sir John Burnet, Tait and Partners; bottom, workshop at Birmingham by Rudolf Frankel.



Above, hop research laboratory at Wye, Kent, by Richard Sheppard and Partners, for the Agricultural College. Left, Cambridge University engineering workshops by Easton and Robertson.



Right, newspaper building, Farringdon Road, London, by Erno Goldfinger.

time a modern steel rolling mill has had such thorough architectural consideration. Mr. Gibberd has skilfully brought out the dramatic possibilities of the large industrial plant by concentrating interest on the human scale of certain elements like the door in the centre of the picture—which enhances the drama of the whole by contrast.

Another factory of unusual distinction is by Mr. Frankel, in what one might call the Mies van der Rohe style, exploiting the careful relationship of rectangular areas and the transparency of intersecting planes, and—an interesting contrast—an office building in Mr. Tait's familiar, sober style, emphasizing the solidity of the wall, though it is in fact, like the other, a steel-frame building.

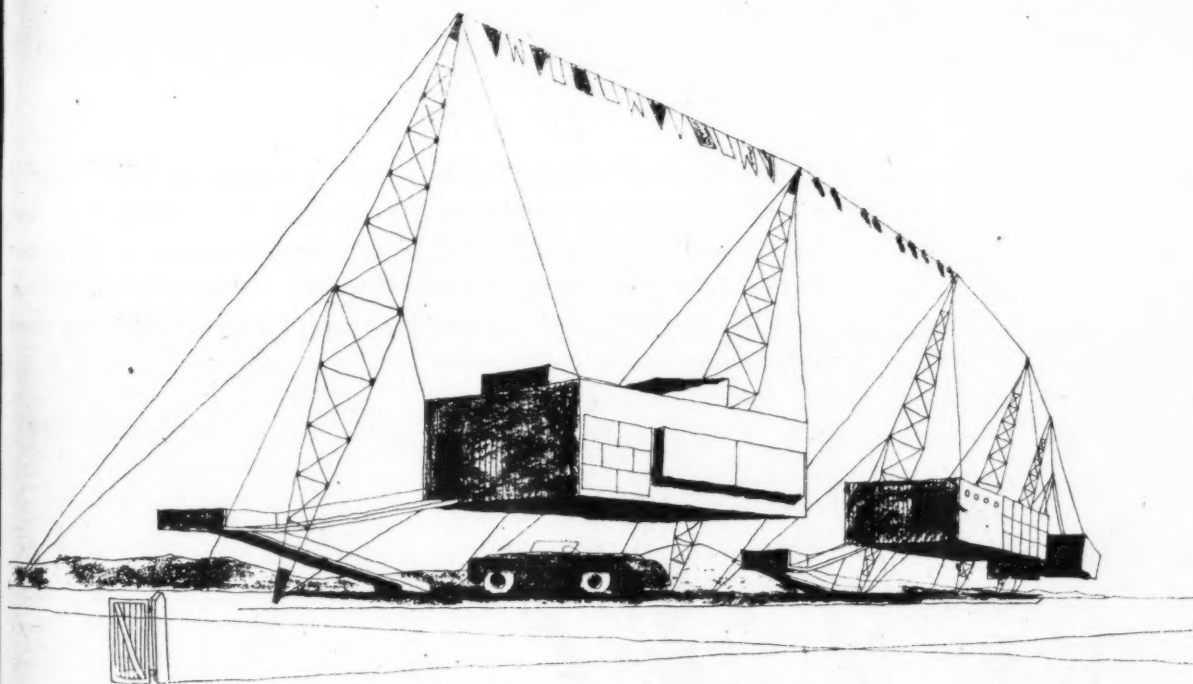
I conclude with three buildings that fall into none of the preceding categories. Two are scientific workshops, and provide another contrast in elevational character. Mr.

Sheppard's façade frankly—if somewhat weightily—expresses its concrete frame and slab construction. Messrs. Easton and Robertson's Cambridge building, of mixed brick, concrete and steel construction, emphasizes the character of the outside wall as a two-dimensional skin by setting the window glass almost flush with the brickwork and breaking the surface of the latter as little as possible by delicate, attenuated detailing. Finally, Mr. Goldfinger, in his newspaper building, has designed a workmanlike superstructure that boldly expresses the cell-like nature of the reinforced concrete frame, appropriately differentiating the staircase element at the right-hand side. It is only a new building from the first floor up, having been built on the ruins of a nineteenth-century structure, and he has not hesitated to let this appear externally.

THE NEXT FIFTY YEARS

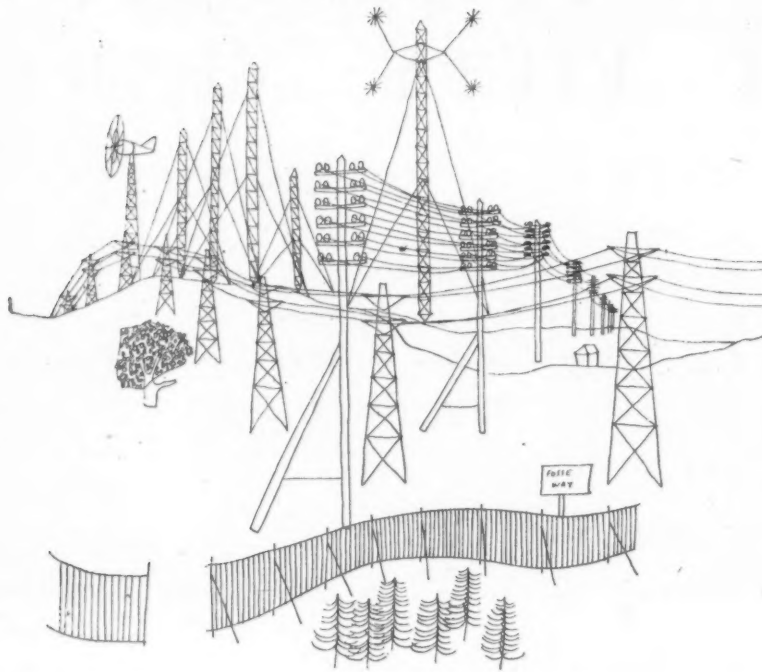
WRITTEN AND ILLUSTRATED BY GORDON CULLEN

Events not strictly related to architecture and planning have been pruned from this survey of the years 1950-2000. Many events which are so related have also, I fear been pruned. This leaves a very small tree. I have, however, given a pointer to developments in town and country planning, the architecture of control and technical advance in relation to housing. I find none of these impossible or even improbable since they can be observed in the world today.



THE FIFTIES

This was the decade of the Exhibition Style in architecture. The effect of exhibition architecture on the post-functionalism that prevailed, on paper at least, during the forties can clearly be seen in this view of a housing estate near Birmingham. As can be seen, these houses are not of the conventional semi-detached type, they are completely detached. The advantages of this system include dry car-parking, immunity from sickness when at sea, absence of foundations and damp proofing and a melodious reverberation when sparrows sharpen their beaks on the suspensory cables. It will be recalled that after the 1851 exhibition many people built conservatories resembling the Crystal Palace in miniature. The Souvenir Room of the nineteen-fifties was usually connected with the living room and set aside for the use of the daughter of the house when receiving her fiancé, much as the "front room" is used today. This Souvenir Room was circular in plan and invariably had a dome-shaped roof.



THE SIXTIES

By the middle of this decade most of the countryside had disappeared behind a screen of wire necessitated by the many activities proper to an active and progressive state. Apart from the normal wires for telephone and electric power there was a marked increase in masts for radar, television, radio and the popular wind-machine. A new feature in the wirescape was a high tower having slender antennæ, the purpose of which was to repel flying saucers which by now had become a serious menace.



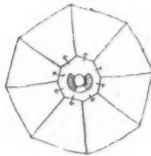
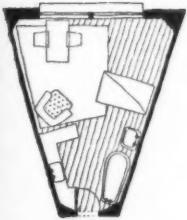
THE SEVENTIES

The countryside was now but a memory, there was no hinterland left. Curiously enough the last remaining illusion of pure country could only be found in the Civic Centres of the New Towns. The Garden City had reached its ultimate extension and the Centre was so widely spread that it could only be recognized as such by the stringent traffic control signs.



THE EIGHTIES

This was the decade of the Great Control. At all times and in all places the individual was under observation. All rooms had a built-in telescreen (see 1984 by Orwell) which was in fact an official "eye" and loudspeaker. In order that no-one should hide from the "eye" or telescreen the rooms were made fan-shaped on plan, the screen being situated at the narrow end over the door. Buildings and blocks of flats were built up on this plan unit and inevitably became polygonal with a central well for stairs and lift. In a remarkably short space of time the population grew accustomed to this room shape. The word "room" was defined in the dictionaries as a fan shaped living space. Gradually the idea that living spaces could be square or circular disappeared from the mind of man, and with it any delight in planning. Historians have recently commented on the parallel between this planning development based on observation and the planning of public houses in the fifties where the same principle of central observation of all bars was enforced.



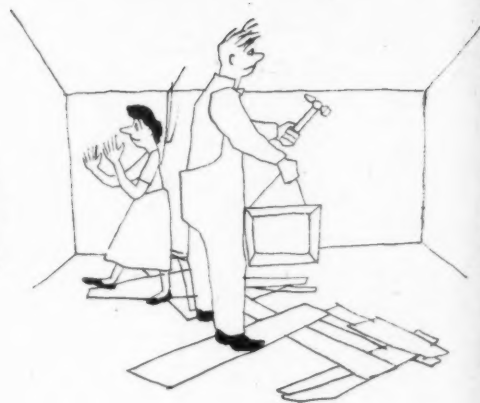
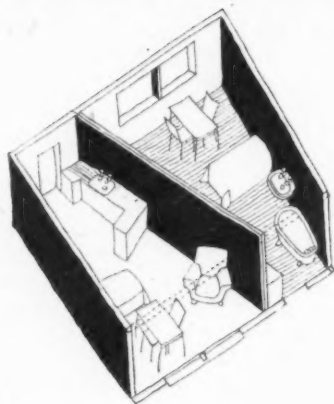
Typical one person room, the telescreen is over the entrance door, lavatories are communal.



THE NINETIES

When the Control ceased colonies of migrant anarchists settled in the wireside and built villages and towns, but all their buildings were fan-shaped, and clustered like a modified honey-comb.

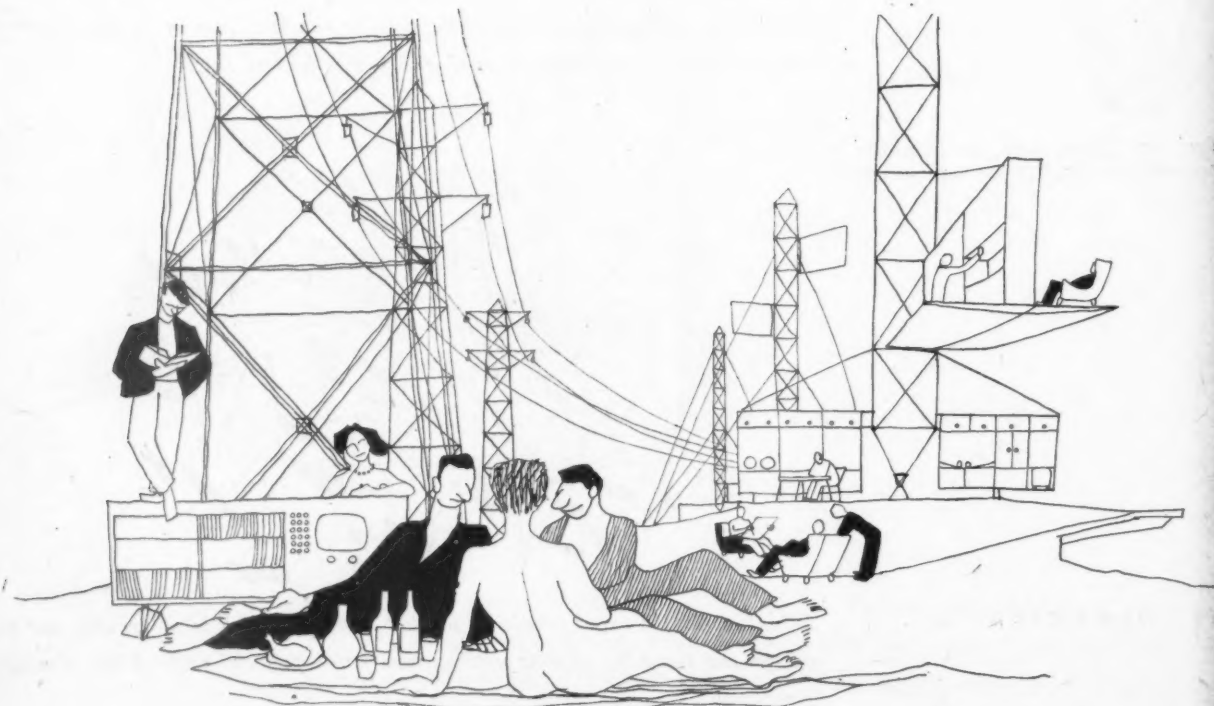
A view of the two rooms (front walls removed for clarity.)



TWO THOUSAND A.D.

Some of the centres were very congested and it so happened that two rooms were built so close that the walls touched. This arrangement (as shown in the drawing) was quite accidental and it may have happened several times before. In one room lived a man, in the other a woman, and in the nature of things the man decided to hang a Civic Centrescape on his wall. In driving in the nail he so annoyed his neighbour that she retaliated by beating her wall. In a sudden and strange anger he knocked harder and as you can guess the walls collapsed and they stood facing each other. They did not look at each other but at the miracle of the square room. They walked in it, they went outside and looked at the two rooms and realized it was one. Geometry . . . right angles . . . space.

The Control had succeeded in anæsthetising all the sensuous pleasures including those whose entry to the mind was through the optic nerve. It had reduced architecture to a formula of physical function and now as life stirred again there was a spontaneous desire to explore the wonders of space. In this the people of those times were helped by science which, as a by-product of anti-aircraft research, had succeeded in controlling the atmosphere. Thus, within huge, invisible rooms people lived in the new Garden of Eden, their only requirements being chairs, fittings, baths and cookers. All these were laid out with insight and exquisite skill in the steel jungle.



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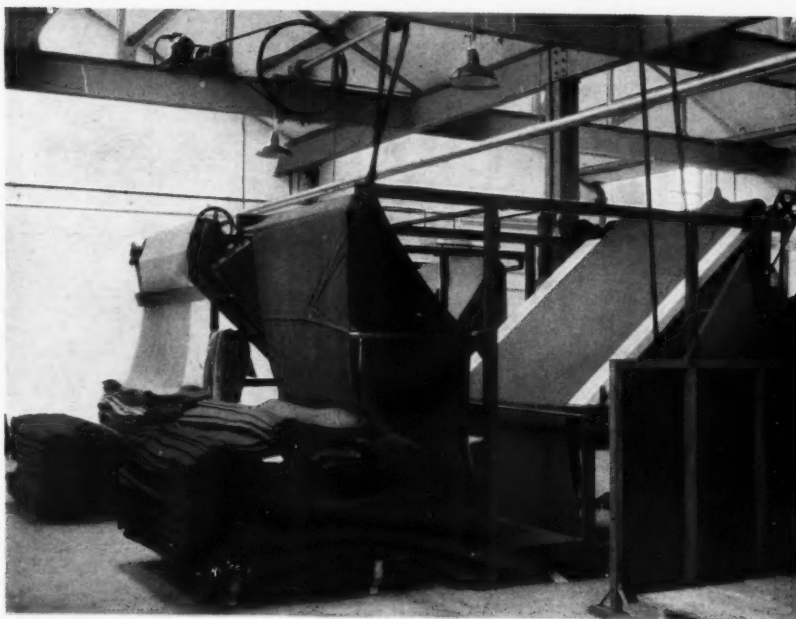
This woollen mill came to notice in the course of study in lighting and colour at the Building Research Station and acknowledgments are due to Mr. Rhodes, who chose the colours for the finishing rooms himself, for his help in explaining his objectives and in allowing the photographs to be taken. The text is by H. L. Gloag, and in conjunction with the illustrations, is published by permission of the Director of Building Research (Crown Copyright reserved).

COLOUR IN A WOOLLEN MILL

The illustrations show the part of a woollen manufacturing mill near Oldham which houses the finishing processes, including scouring, dyeing, raising and trimming the pile and inspection for faults. The director of the mill, Mr. Hervey Rhodes, M.P., wished to improve the quality of the cloth. (In the case of woollen finishing, this is largely a matter of increasing the care taken in detecting faults and in keeping the cloth clean). He saw that this implied on the part of the operatives a sense of craftsmanship in handling the cloth and a sense of pride in keeping the room, the machines and themselves clean, and that colour could be used as a means of gaining these ends.

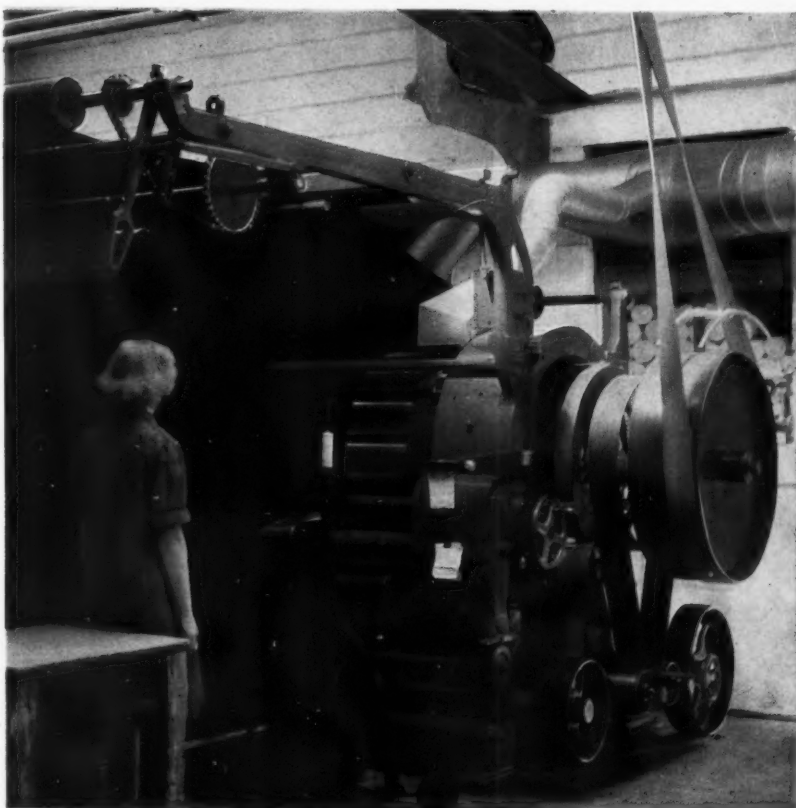
This use of colour to produce a particular frame of mind or emotional reaction is the one the designer most often holds consciously in mind. By itself, however, this approach carries no guarantee of success. A set of colours arranged in abstract pattern, like a Ben Nicholson painting, selected to produce a feeling of pleasant invigoration cannot be applied arbitrarily to architectural spaces and the objects in them. A lack of sympathy between the colours and the quantity and distribution of light in the space may give rise to visual discomfort, caused by excessive contrasts of light and dark between adjacent surfaces or between the source of light and its immediate surroundings. Visual discomfort would in turn prejudice the emotional effect, and for this reason, a scheme which at first appears successful may pall with time. Another cause of failure in an otherwise successful scheme, and an important one in many industries, may be inability to see a particular object, such as the work in hand, without strain. Explicit recognition of the needs of vision as well as the emotional aspect of the problem gives the designer greater sureness, and he is able to bring the benefits of colour to the most difficult cases with less dependence on the unwelcome process of trial and error.

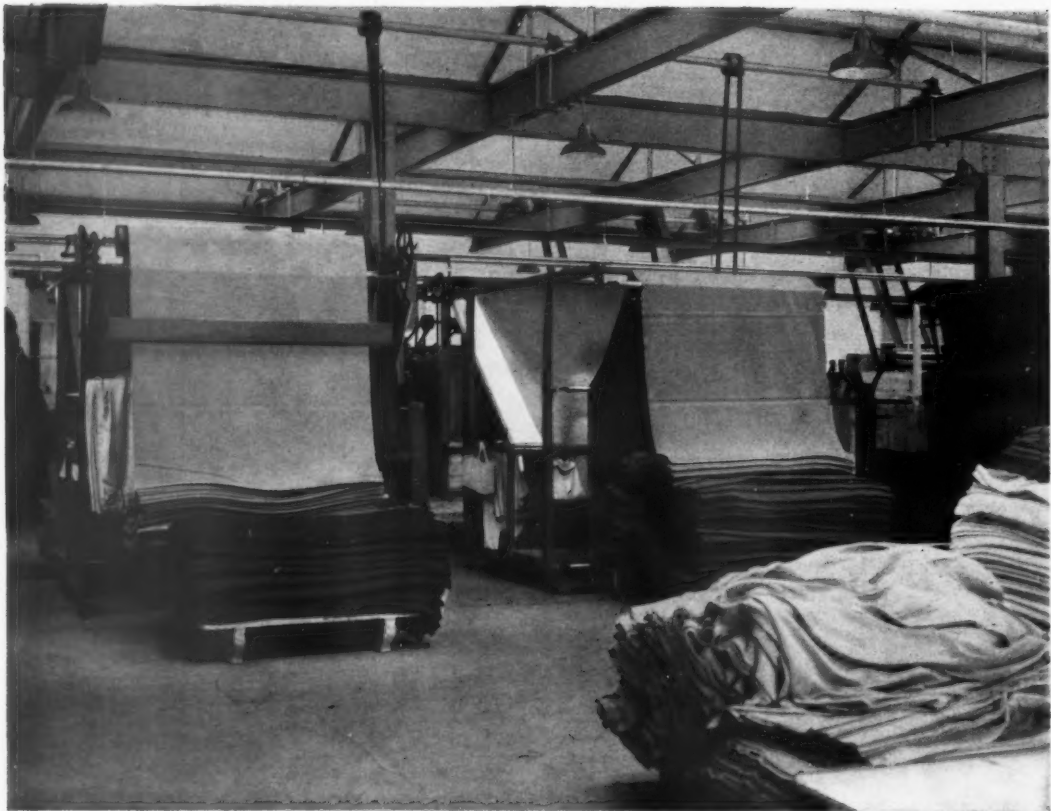
Although the emotional aspect only was in mind, the example here appears on the whole to have a continuing success. We would therefore expect to find a general conformity with the needs of visual comfort but may find less sensitivity to these where close concentration is called for. On the inspection machines, where detailed attention must be given to the cloth, there is a case in point, since there would be a tendency to look at the white edges of the sloping table-top rather than the darker cloth itself. If the table were painted matt black it would not then compete in brightness with even the darkest cloth.



Side view of an inspection machine. The cloth is not always brightly coloured but when such bales do pass through they add "punch" to the already cheerful effect.

The wall beyond this "raising" machine has a north-light window above, and from positions behind the camera will therefore be seen next to the bright sky. The light colour used on it has reduced the risk of excessive contrast.





Another view of inspection machines in which the cloth is examined for faults as it passes through. Note the white edge of the table-top referred to in the text.



An older part of the building with timber trusses above. The light colours of side walls and ceilings are necessary to reduce contrast with bright patches of sky seen through the windows. The blue dado cuts across the architectural pattern and would be better used on the machines, combined with the red, to reveal their shape more clearly.

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WHERE TO GO IN 1950

As most people seem to plan their holidays early nowadays we thought readers might be interested in a guide to holidays in other countries. We therefore asked several people well known to the architectural profession to describe the holiday

conditions abroad. Their knowledge is first hand as each has visited the country he writes about recently. The countries described here vary greatly in such details as the cost of living, climate, and their distance from England.



HOLLAND

BY I. DE. WOLFE

If you have a car and a weak stomach, go by Boulogne and motor up through Bruges, remembering to put as little petrol in the tank as possible till you get to Holland. Reason, petrol 6s. a gallon in France; in Holland, 2s. a gallon, unrationed. If you prefer the sea passage, motor to Harwich and cross direct to the Hook. Make sure to book your hotels beforehand in S. Holland, as the Amsterdamers and Den Hayners specialize in continuous Indonesian conferences. North and east of the Zuider Zee you should get in without booking. Holland, in fact, is divided



Dokkum "for period nostalgia."

into two, of which Holland proper—the southern half—is almost entirely industrialized in the Eton-Slough-Great West Road sense—equivalents Delft and Leydon. Northern half, home of the blue-eyed, golden-haired Dutch of the children's books, includes Friesland, the natives' yachting and holiday centre.

Really, to see Dutch architecture of all periods you should hire a boat here and visit the towns by boat—there are 2,000 odd miles of canals and every Dutch town worth visiting is a Venice of the North. When you've done Friesland, cross the *Zuider Zee* (dangerous in bad weather) and do Amsterdam

and the South. London agents for Dutch yachts and motor cruisers—Netherlands Boat-Owners' Association, The Strand.

Suppose you've been sent to Drachten to pick up your boat. A good architectural tour would be Sneek (the Wroxham of Friesland, for charts, stores, and the *Stadhuis*); Bolsward (for vernacular 17th century shop interiors—architecturally speaking, wine merchants are always worth a visit anywhere in Holland); Harlingen (for canal-scape); Franeker (for the 18th century Planetarium); Leeuwarden (for the Fries Museum and the evolution of the gold casque); Dokkum, Makkum, Blokzisl (for period nostalgia); Kampen (for 18th century charm and a magnificent Gothic church); Lemmer (for the Polder and Urk); the Polder (for a TVA-style essay in regional mechanization—on the reclaimed sea bed traditional Fries Farmhouses go up as you steam by—organization, last word in modernity, architecture; last word in villadom—Dutch official architecture has struck a new reactionary phase); Urk (for the contrast between the fishing fleet with

Warehouse at Harlingen.



Warehouse at Leeuwarden.



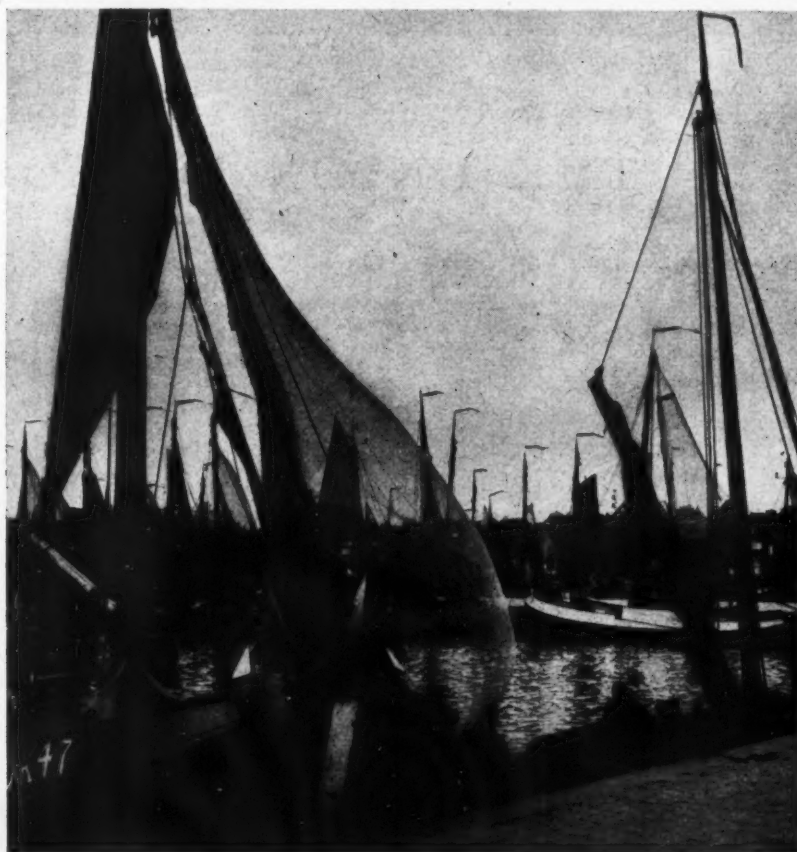
its costumed personnel, hang-over from the pre-industrial era, and the squalid suburbia of the rehousing); Mepple (for canal-scapes and also for Staphorst); Staphorst (for the most extraordinary sight in Europe, the Sunday promenade of the villagers in costume—a dead march nine miles long).

Then there are: guide-book towns, Haarlem, Leydon, Delft, The Hague, and Amsterdam. Almost all are spoilt by Great West Road stuff; almost all are still worth a visit. And the trippers' towns for costume, Marken, Vollandam. And the towns for modern architecture, Rotterdam, Hilversum, too well known for description here. If you have to select, go for beauty of costume, to Staphorst, Vollandam and Sparkenburg, on a Sunday. For canal townscape, to Hoorn, Harlingen, and Dordrecht. Best costume, Sparkenburg. Best drinks, Bols Gin and Bols Apricot (don't miss this last if you have ladies on board—red wines are vile beyond description, but they generally have some drinkable hock; not on view, though, because they don't like the Germans). Best wirescape, Leydon. Best town (don't tell anyone else) Harlingen. Best cafe-life, the Butinhof at The Hague. Worst flop, the Frans Hals museum, Haarlem. Most important notice (if you are in a boat which has to get through a van Gogh bridge (10 cents every half-mile), Zon-

dag Gesloten—shut on Sundays. Worst sell—the windmills—there aren't any. Worst misrepresentation, the Dutch. They are not dour, not fat, not dull. They don't like each other much, but they have an invincible gift of goodwill which makes the foreigners' path in Holland a primrose one.



Staphorst costume.



Urk "for the contrast between the fishing fleet with its costumed personnel . . . and the squalid suburbia of the rehousing."

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A general view of Cape Town from the Table Mountain.

WHERE TO GO IN 1950:

THE UNION OF SOUTH AFRICA

BY A. M. CHITTY

Groot Constantia House near Cape Town.



Will you go by boat, civilized but dull (£216 first class), or by flying boat (£304 return)? The latter is a rapid succession of first impressions—France, Corsica, Sicily, evening in Syracuse, a night at Augusta, Tobruk and Alamein, Alexandria, Karnak and Luxor by moonlight, feluccas on the Nile, the red and white desert; then Uganda, Lake Victoria and the vast marshlands, and at nightfall the thunder of the Victoria Falls.

Johannesburg—still a mining camp though now grown up—a city of contrasts, corrugated iron shacks and skyscrapers, ox wagons and trolley buses, rickshaw and Cadillac, the antiquated and the borax. Architecturally monstrous, socially exhausting, climatically dangerous, gastronomically excessive, it is a town to be seen by every man but to be lived in by none who value sanity or sensibility!

A citrus grove.

Pretoria, hot, dignified, serene. In earliest spring with all its naïve colour values, the unreal jacaranda bloom, and garden dashed with the blood of dying poinsettia. The pleasures of open air meals in the country club; and the great Iscor Steelworks. Cape Province is another world; Natal another still. In the former you may view the wonderful tree-clad undulations of the Rhodes Estate and see zebra, buck and wildebeeste grazing in fields of arum lilies. Here also is the beautiful Dutch Malay detail of Paarl, Stellenbosch and the great wine farms of the hinterland.

And what of modern architecture? One is surprised and pleased to find how large a quantity of good modern

design there is in South Africa today—especially in the field of the medium sized middle-class houses. Houses by Gordon Mackintosh, Stauch, Fassler, Howie, Douglas Cowie, Westood, Colin Bennett, Thornton White and many others surpass in quality (as well as in quantity) similar work in Europe or in the States. They lack the slick vacuity of design illustrated on the glossy pages of the *Forum* and the *Record* and have a quiet and dignified feeling of good planning and comfortable domestic common sense about them that is most attractive. It is a tragedy that this type of house is no longer permitted in England.

There are many other buildings of great interest: George Stegmann's

Princess Nursing Home, Meadley and Mallowes' department store at Pretoria, the new station buildings at Johannesburg, Meiring's gymnasium at Pretoria and Thornton White and Pryce Lewis's combined lecture hall at Cape Town University; much of Gordon Mackintosh's work at Pretoria and a great many of the new industrial buildings at Port Elizabeth and Durban. Of the older material, Paarl with its exquisite Dutch Malay Church and also the Plein at Stellenbosch. Klip power station, with its grand and simple basic forms, the coolers, ten of them, the pyramidal slag dumps, blue, grey and black, the forest of thin plumed chimneys—the whole set in a flat and desolate scene.



Screening gold-bearing rock prior to extraction by panning.



The Zillertaler Alps.

WHERE TO GO IN 1950:

A U S T R I A

BY O. BONDY

Can we afford it? We went to Vorarlberg in September last, had 3 weeks' holiday and spent about £40 each including fares and everything. We lived rather modestly in a village Gasthof at 5,000 ft., but nothing was missing to make it a completely delightful holiday and an excellent investment. The official rate of exchange is now 72 Austrian shillings to the pound.

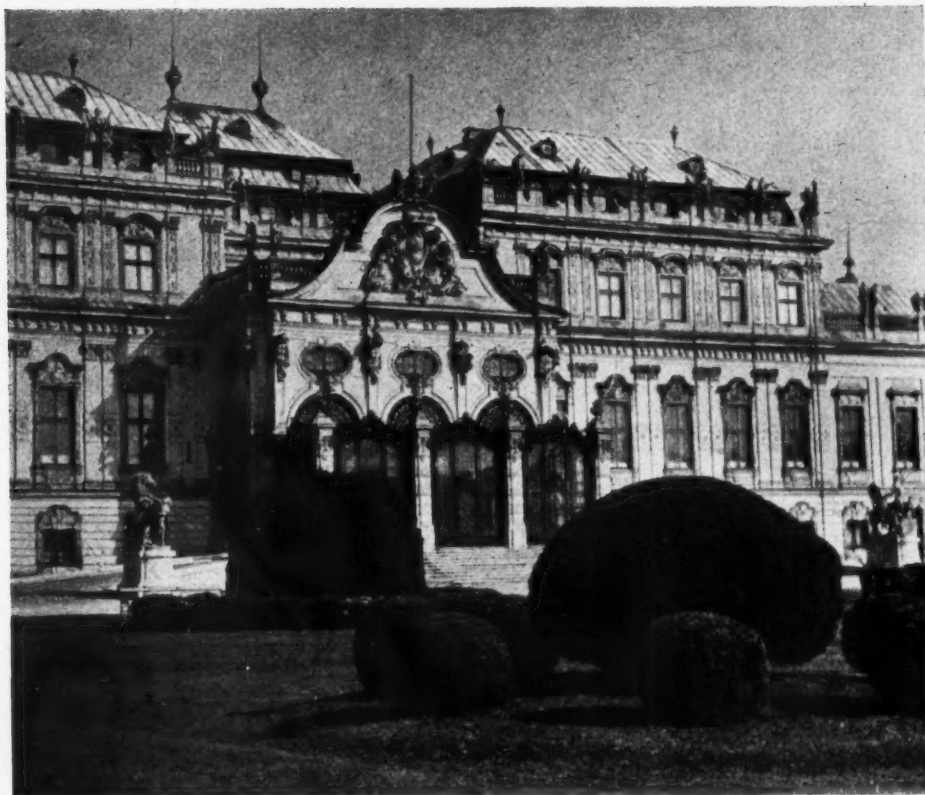
Taking the Arlberg Express at 2 p.m. from Victoria Station the tourist arrives next day at 5 p.m. at Innsbruck. There is a wide choice of excursions in the neighbourhood. Electric trains and several cableways take

you to the middle or higher mountain ranges. We used to reckon one week's winter holiday was worth two weeks in summer. No need to be afraid of snow and cold; when the sun shines you easily find it too hot, and you have to be careful to protect your skin and your eyes (cream and sun glasses). The best part of the season: February to April.

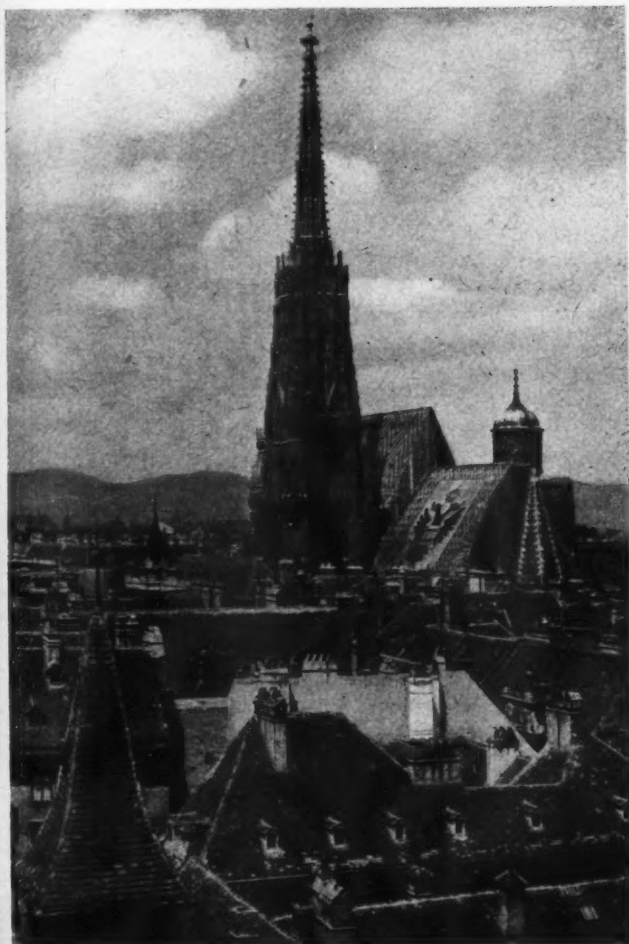
Innsbruck, the arcades on both sides of the Maria-Theresien Street, remind us of the South Tyrol and the Italian style, and the 8,000 ft. high Nordkette provides a wonderful background. There is an English Seminary at Innsbruck University where visitors from

Great Britain may get information on places of architectural and historical interest. The Exl-Bühne, a Tyrolian peasants' theatre, will be worth attending even for those who cannot understand the native language. The architect may also be interested in the peculiar style of terminal station buildings, at the top end of the Hafelekar Bahn and other cableways. Whenever you find it cold and misty down in the valley enquire by telephone about the weather up there. More often than not you will learn it is all blue sky and sunshine.

Motorists may find it rather expensive to go *via* Switzerland, but once in



*Belvedere Castle,
Vienna.*

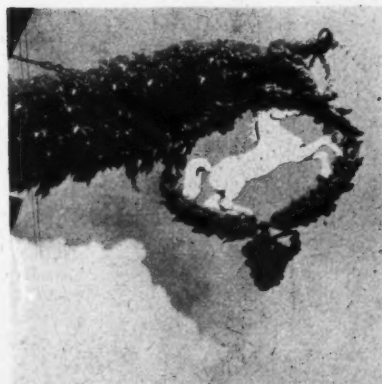


*St. Stephen's,
Vienna.*

Austria they should live quite well on £1 a day. Food is ample and of high quality. Those who want to climb are well advised to have nailed boots or nailed shoes. Wear them occasionally for Sunday hiking before going on holiday to Austria.

The Glockner alpine road follows the Inn valley from Innsbruck to Wörgl, then to Kitzbühel and to Zell-am-See. You climb by car right into the main range of the Austrian Alps, up to about 9,000 ft., and on the South side down to Heiligenblut, Lienz and into Carinthia. This is a suggestion only for summer time and autumn.

If on a visit to Vienna, get in touch with the British Council (Vienna I, Freyung), or with the Austrian Institute of Engineers and Architects (Vienna I, Eschenbachgasse). Mid-summer is not a good season for Vienna.





Salamanca
Cathedral.

WHERE TO GO IN 1950 :

SPAIN

BY F. R. YERBURY



Pesetas at the special tourist rate of 70 to the £ make living for the visitor cheap. A room with bathroom in a good hotel in the centre of Madrid can be had at about 40 P., and in the country and provincial cities even cheaper. London-Madrid by air about 5 hours, there are both British and Spanish air lines. Rail route from London to Madrid is *via* Paris and Irun or *via* Paris through the south of France to Barcelona. Another route is *via* Gibraltar travelling up through the south of Spain. Spain, north and south, are two different countries, and one needs ample time for each. The main roads are good and easily followed, the cross country roads often over extremely mountainous country and rather poor, have no sign posts.

Madrid: among the new important buildings, the new University centre on the edge of the city, buildings of good, bad and indifferent qualities.

British visitors should report at the British Institute and if possible make the acquaintance of Dr. Starkie, the Director, who knows more about Spain than most Spaniards. The British-American Club should be

COOKING | GAS

31.C2

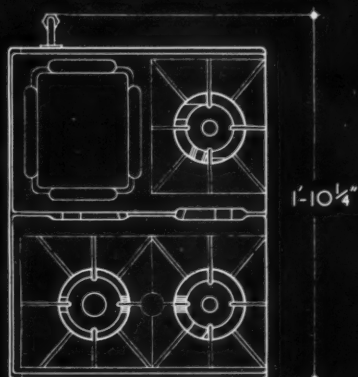
The Architects' Journal Library of Information Sheets 241. Editor: Cotterell Butler, A.R.I.B.A.



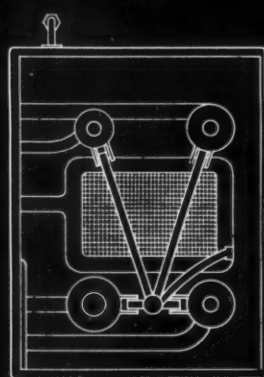
VIEW OF COOKER OPEN.



VIEW OF COOKER CLOSED.

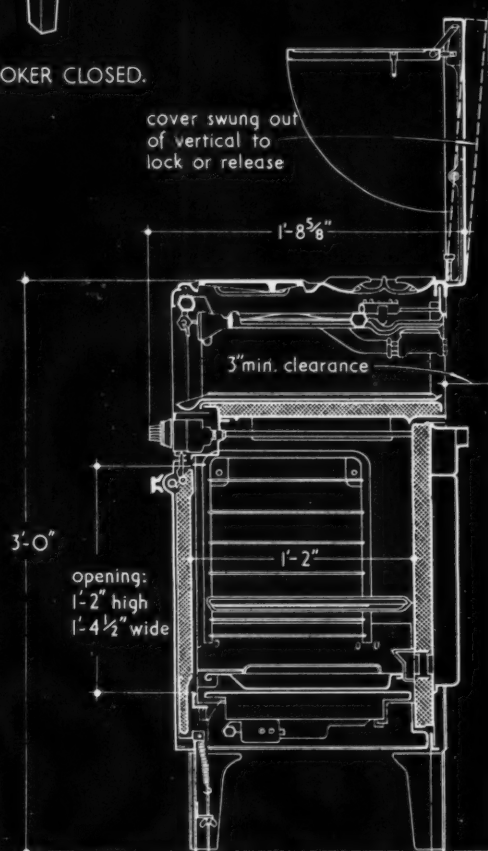


hot-plate top-bars in position



hot-plate top-bars removed

PLANS SHOWING DETAILS OF HOT-PLATE AND BURNERS.

cover swung out
of vertical to
lock or release1'-8 ⁵/₈"

3" min. clearance

3'-0"

opening:
1'-2" high
1'-4 ¹/₂" wide

1'-2"

SECTION THRO' COOKER.

31.C2 GAS COOKER : • RENOWN • MARK IV

This Sheet describes the Renown gas cooker. Illustrations of the cooker, both open and closed, together with a section and plans of the hotplate are given on the face of this Sheet.

Construction

Folding plate-rack : This is of mild steel and is incorporated in the cover top.

Hotplate : The semi-solid top bars are made of cast iron vitreous enamelled black. In normal use they do not reach a temperature high enough to carbonise spilled particles of food and are therefore easily cleaned. They are removable for cleaning the underside.

Hotplate burners : There are four boiling burners, large, medium, small and simmering. They are of cast iron stove enamelled black, or alternatively vitreous enamelled black as an extra. The griller burner has a semi-solid cover and the under-section is constructed from heat-resisting steel. A grill pan and grid are supplied. Each hotplate burner is fitted with an automatic flash ignition device. This affords a safety precaution in that should a tap be accidentally turned on the burner lights instead of there being an escape of gas.

Oven : The side linings are of grey mottled vitreous enamel on steel sheet. The burners are fitted at the sides and arranged so that the flames are inclined inwards at 25 degrees to the vertical. The shelves are supported on interchangeable wire gates and a cake tray and meat tin are supplied.

Door : This is of the drop down type and is counter-balanced by adjustable springs. It provides a convenient table for holding dishes when re-arranging the oven.

Fittings

Tap controls : These are spring-loaded plug type giving in addition to the normal "full on" position a positive and adjustable simmering position. This position is obtained by turning the tap beyond the "full on" position as far as it will go, the size of the flame at this position being predetermined by setting the adjustable pin fitted to the body of the tap. The oven tap is distinguishable from the others by its red handle and is fitted with a laterally operated locking device. This is actuated by a spring-loaded thumb catch which automatically locks the tap when it is in the "off" position.

Thermostat : This is positioned centrally on the front of the cooker immediately above the oven door.

Lighter connection : This is fitted to the left-hand side of the main body as standard to all cookers.

Governor : The cooker is fitted with a governor which maintains the gas pressure to the burners at a maximum of 3 in. water gauge, thus preventing interference with cooking by exceptional gas pressures.

Finish

The exterior finish is white vitreous enamel with black edges. The hotplate bars and folding plate-rack are finished black vitreous enamel.

Renown Mark III

This is similar in design to the standard Renown cooker, but is larger in size.

Leading dimensions are given in the following table:

Dimensions	Height	Width	Depth
Oven, inside	1 ft. 6½ in.	1 ft. 7 in.	1 ft. 6 in.
Oven, door opening	1 ft. 3 in.	1 ft. 5½ in.	—
Height to hotplate	3 ft. 0 in.	—	—
Height over cover when open	4 ft. 9½ in.	—	—
Hotplate	—	1 ft. 9½ in.	1 ft. 9½ in.
Overall of cooker (including provision for lighter)	4 ft. 9½ in.	1 ft. 11 in.	2 ft. 0½ in.
Width without provision for lighter	—	1 ft. 10 in.	—

Compiled from information supplied by :

The Parkinson Stove Co., Ltd.

Address : Stechford, Birmingham, 9.
Telephone : Stechford 2253.
Telegrams : Appliance, Birmingham.

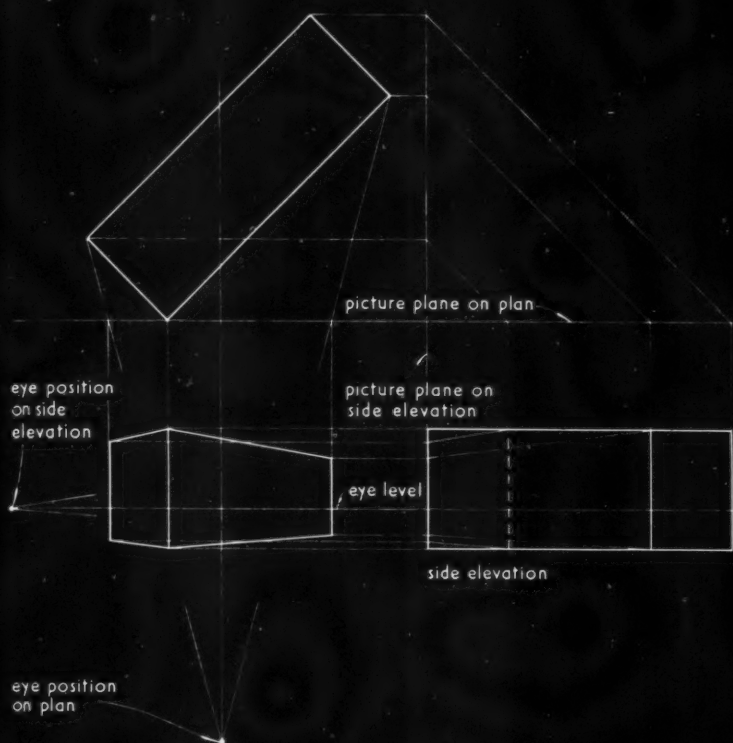
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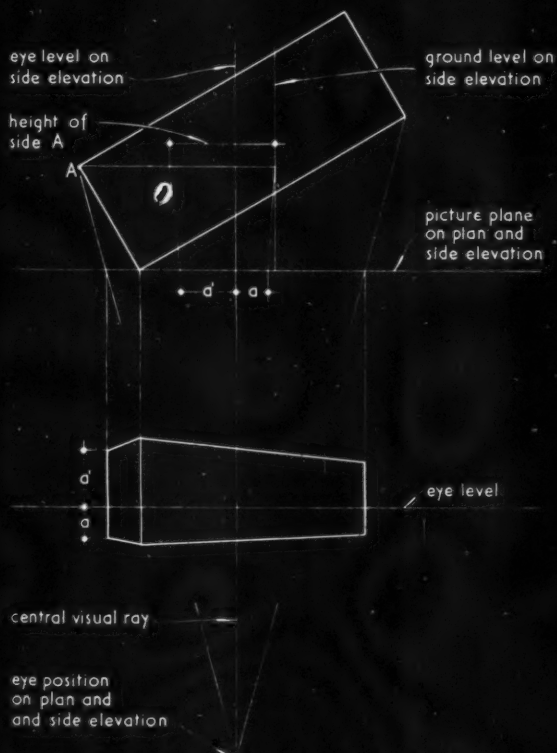
DRAUGHTSMANSHIP | PERSPECTIVE

I. B 40

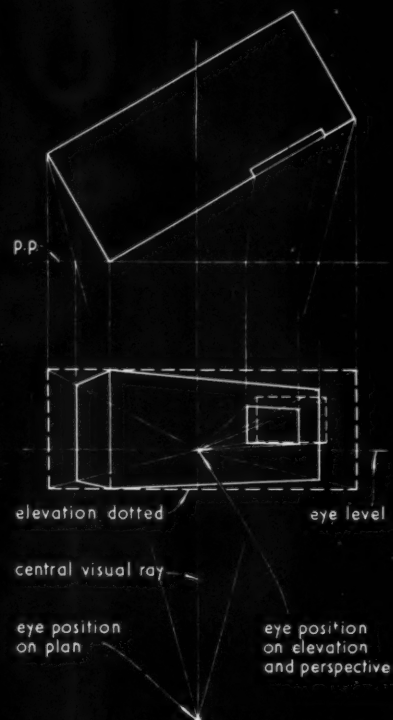
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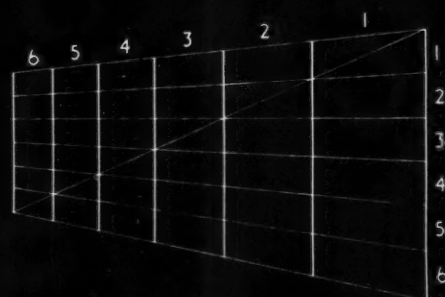
• METHOD 1: USING PLAN AND SIDE ELEVATION.



METHOD 3: USING PLAN AND PLOTTED POINTS OF SIDE ELEVATION.



METHOD 2: USING PLAN AND FRONT ELEVATION.



method A

method B

ALTERNATIVE METHODS OF DIVIDING SURFACES INTO EQUAL NUMBER OF PARTS

PERSPECTIVE DRAWING: NO VANISHING POINT PERSPECTIVE.

Compiled by Leslie A. Lee, L.I.O.B., and H.N. Hoskings, A.R.I.B.A., for Eagle Pencil Company—Chemi-Sealed Turquoise pencils.

1.B40 PERSPECTIVE DRAWING : NO VANISHING POINT PERSPECTIVE

This Sheet, one of the series on draughtsmanship, describes various methods of construction that may be used when vanishing points fall outside the limits of the drawing board.

In most constructions for perspectives where no vanishing points are used, each point on the drawing has to be found by relating its position to the left or right of a vertical line drawn through the central visual ray and its height above or below a horizontal line drawn through the central visual ray, *i.e.*, the eye level line.

Method 1 : Using Plan and Side Elevation

The first example shows a method of setting up a perspective by means of a plan and its side elevation. The eye position and picture plane are chosen in relation to the plan as usual. The side view of these is drawn to show the correct relationship of eye position, picture plane and building. Lines are drawn from the plan towards the eye to cut the picture plane and dropped vertically down (giving the horizontal disposition of parts of the building). From the side elevation lines are drawn from the salient points towards the eye position to cut the picture plane (giving the vertical heights of various parts of the building). From these points on the picture plane horizontal lines are drawn to intersect the vertical lines of the perspective already drawn from the plan. The perspective view is set up by joining the series of points thus found.

Method 2 : Using Plan and Front Elevation

In the second example the perspective is obtained from the plan and its front elevation. The eye position and picture plane are chosen in relation to the plan. An elevation is then projected from the plan showing the two sides of the building that will appear in the perspective. On this elevation the eye level is drawn and the eye position or central visual ray is marked on it. Lines are drawn from the plan towards the eye to cut the picture plane.

This stage of the construction may be drawn on one sheet of paper, a piece of tracing paper being superimposed on the drawing for the construction of the perspective view. Points on the perspective view are located by drawing a line from the eye position in the elevation to a chosen point on the building in the elevation and cutting it by a vertical dropped from the picture plane position of the same point found from the plan. This procedure is repeated for each point on the building and the perspective view is thus superimposed on the elevation.

Method 3 : Using Plan and Plotted Points of Side Elevation

In the third example the principle of construction is the same as that of the first example, but the side elevation, instead of being drawn, is only plotted

over the plan. The eye position is chosen as usual and the picture plane drawn. Lines are drawn from the salient points of the plan towards the eye to cut the picture plane. An eye level line is drawn and lines are dropped across it from the points just found on the picture plane giving the left and right disposition of the points in relation to the vertical line through the central visual ray. Over the plan is now superimposed the plotted points of a side elevation. The central visual ray now becomes the eye level line and beneath it is drawn a ground level line. From each point on plan a line is drawn across the eye level line and the ground line so that it is perpendicular to them. On this line the height of that point of the building above the ground level is marked. From this point and its ground position lines are drawn towards the eye to cut the picture plane. The heights above and below the eye level of these points at the picture plane are then transferred to the perspective drawing giving the vertical limits of the top and bottom of the line whose horizontal position has been found from the plan. This procedure is repeated for all other points required on the drawing.

Methods of Dividing Surfaces into Equal Number of Parts

The methods shown, though not forms of construction, can be of much use both in no vanishing point perspective and the normal setting up with vanishing points. If the face of a building or a length of railing, etc., is divided into a number of equal parts, it is quicker to use one of the following methods of division on a perspective drawing rather than to project each point separately from plan.

Method A : The vertical ends of the area to be divided are marked off into the same number of equal parts as there are to be horizontal divisions. Corresponding points are joined and a diagonal of the whole area is drawn. Through its intersection with the dividing lines verticals are drawn giving the required parts of the shape.

Method B : The first two divisions are plotted from plan and the diagonals are drawn, their intersection giving the central line in the height. Then from the bottom of the first line and through the centre of the second line a diagonal is drawn to cut the top line. From this point a vertical is dropped giving the third division. This process is continued until the complete area is divided.

This Series of Sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

Compiled from information supplied by :

Eagle Pencil Company

Address : Ashley Road, Tottenham, London, N.17.
Telephone : Tottenham 4435-6-7.
Telegrams : Octennial, London.



University City, Madrid.

visited. Temporary honorary membership is a boon.

New villages: over 80 have been completed, many of them are within easy reach of Madrid. Every old village and city has a special interest; Bourgos, Salamanca, Avila, Tolado, and Segovia, a most pleasant place in which to stay. The magnificent gardens of La Granja and Aranjuez should not be missed.

In the south, Seville, Cordoba, Rhonda and Granada should be visited in spring or autumn.

A bull fight; make enquiries, some of them are unexciting. Do not miss the Flamencas with their Spanish dancing and singing. Beware of what is

commonly known as Madrid Stomach, which seems to attack most people on account of the rather oily food, late hours and hot weather. Sleep during the afternoons as dinner is served at about 9.30-10 p.m., and theatres open 10.30-11 p.m., finishing at about 2 a.m.

Local wines are very pleasant and cost about 1d. per glass, Spanish Cognac excellent at about 3d. per glass, American cigarettes much cheaper than in England, cigars very cheap, with real Havana costing about 2s.

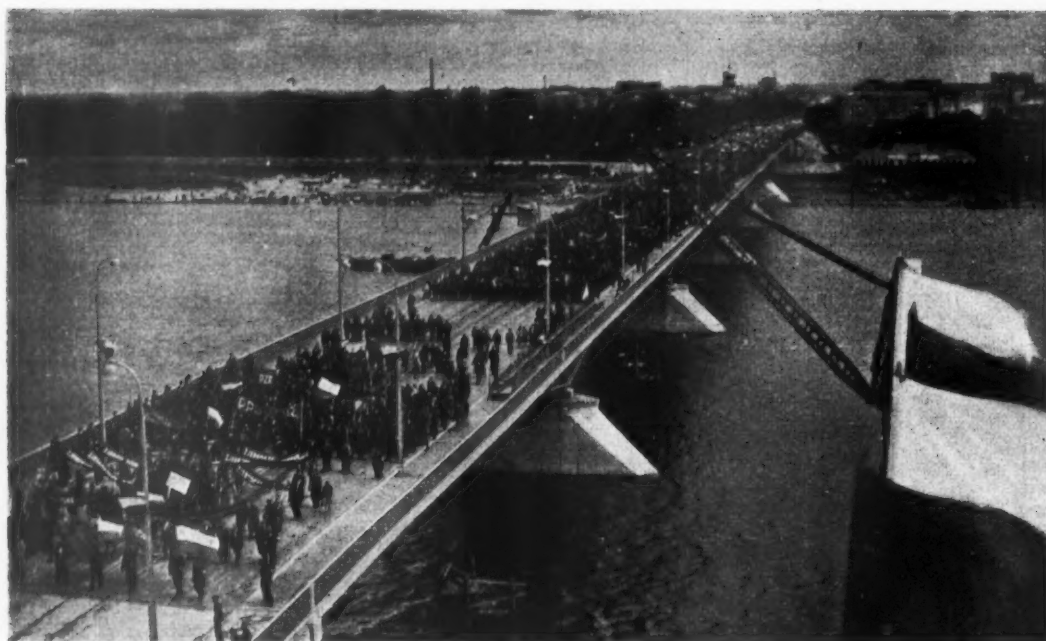
Look at Calvert's books on Spain, Borrow's *Bible in Spain* and W. Starkie's *Spanish Raggle Taggle*.

Avila Cathedral.



Segovia Cathedral.





The new bridge over the Vistula.

WHERE TO GO IN 1950:

POLAND

BY ARTHUR LING

"Iron Curtain" nonsense and the lack of a currency allocation have so far discouraged most architects. This year, however, brings a special opportunity for architects from all over the world to meet in Warsaw (September 3-10) for the Second Congress of the International Union of Architects.

The Secretary of the British Committee (66, Portland Place, London, W.1) wishes to have the names of those proposing to go to Warsaw as quickly as possible. If you submit your name now you will not be finally committed.

At 1,200 zlotis to the £ the unaided visitor can get by with minor extravagances on £2 10s. a day. There are two swaggar hotels in Warsaw—the Bristol and the Polonia, where you will be well looked after, but you will not feel that you are living in Warsaw. My advice is not to go to either if you have the chance of staying with a family or at a small guest house.

There is a choice of routes:—By air *via* Prague (British or Czech lines), 9 hours, or *via* Berlin (RAF Transport Command—VIP's willing)—2 days,

with a night in Berlin; by boat, the *Lublin* from Hull, the *Czech* or *Baltavia* from the Pool of London, or the *Batory* from Southampton; the first three are cargo boats, each with cabin accommodation for 12, the last is a transatlantic liner; by train (rather despised these days). My choice would be a lazy sea trip starting from Brown's Wharf, near Tower Bridge, with comfortable accommodation, excellent food, whisky and gin 6d. a glass, cigarettes 1s. 9d. for 50.

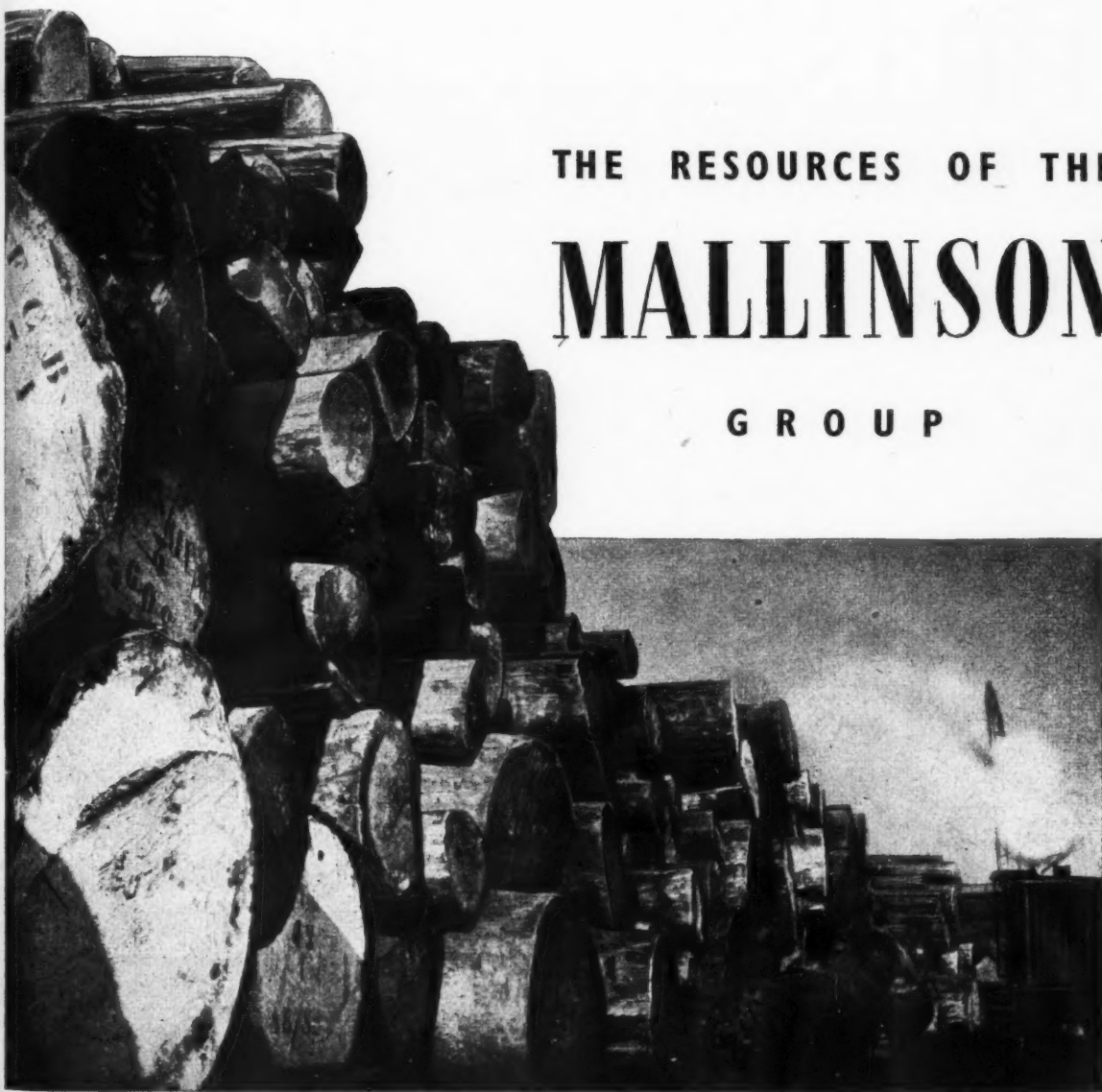
An advantage of this route is that one can inspect Gdynia, see how the reconstruction of Gdansk (formerly Danzig) is progressing, and perhaps bathe from the fine sandy beaches at Sopot, before travelling on by air or train to Warsaw.

Today Warsaw (84 per cent. destroyed) is one large building site. —actual building operations cover 7½ square miles. The reconstruction show-piece is the 5 miles long E-W route with escalator, tunnel under city centre and new bridge over the Vistula. Amongst the new buildings worth seeing are the five-storey Ministry of Industry, the junior skyscraper Ministry of Communications, the Post Office Savings Bank and the Building Research Station. Outside the city centre there are many new neighbourhoods being built. Don't miss seeing the open air prefabrication



Market day.

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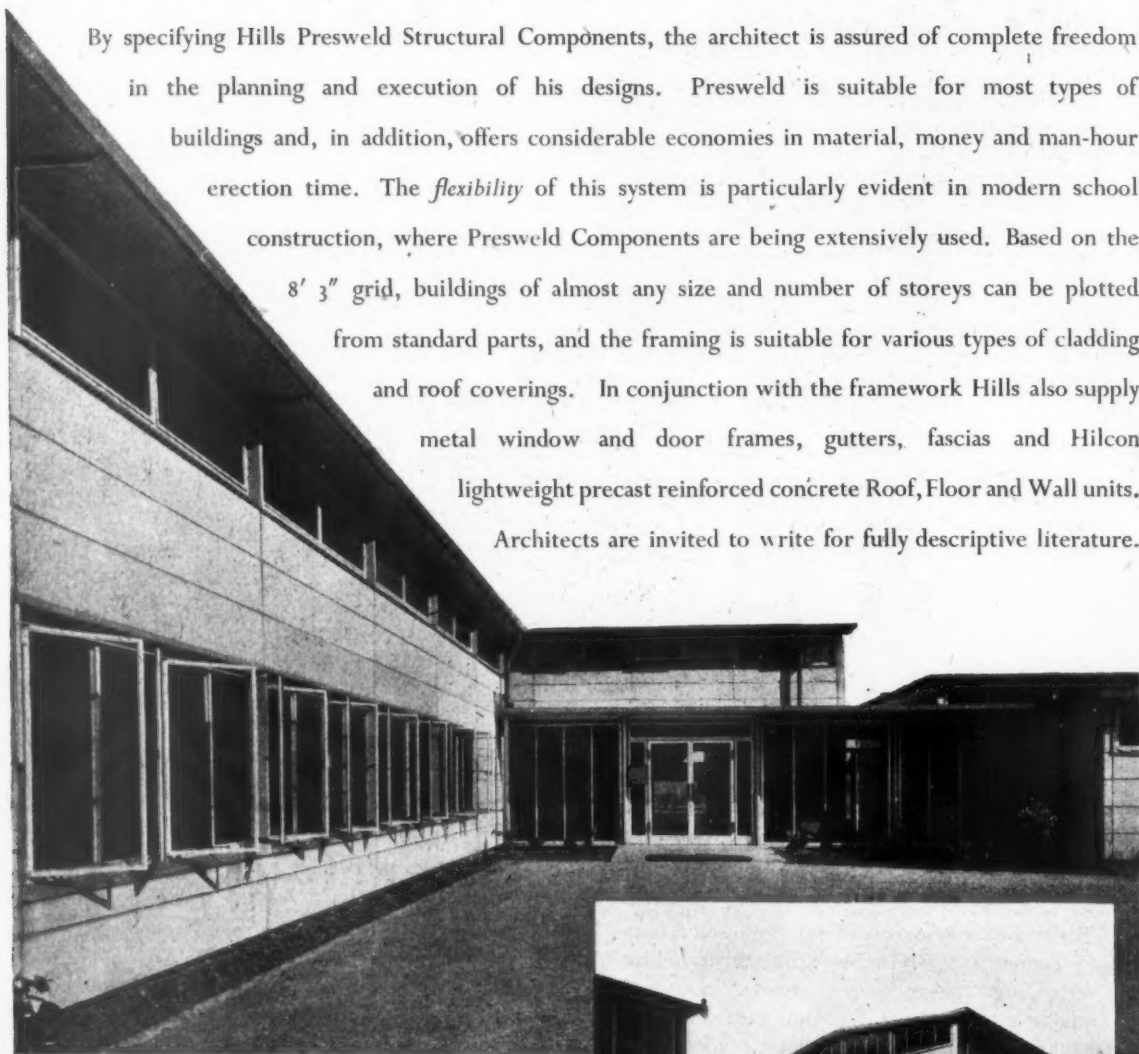
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TELEPHONE: SHOREDITCH 8888-8811

TELEGRAMS: "ALMONER," LONDON

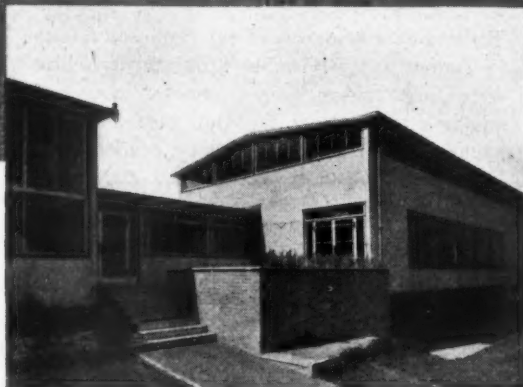
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Above. Junior Mixed & Infants School, Cheshunt, Herts.
Right. Junior Mixed & Infants School, Essenden, Herts.
County Architect: C. H. Aslin, F.R.I.B.A., M.I.Struct.E.

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Housing site at Mokotow, Warsaw, showing the new system of bricklaying in progress.



factory in Marshalkowska Street where thousands of building components are being made from crushed brick rubble for distribution to various building sites. There are also many fine restorations of ancient buildings; New World Street has been restored as an entity. A visit to BOS, the City's Planning Department, is essential to an understanding of the broadened scope of architecture in the New Plan.

Visit the beautiful old university city of Cracow; Katowice is interesting for its efficient coal mines and miners' housing. Wrocław has difficult reconstruction problems and is also the centre of activity for the Recovered Territories.

If you have an invitation to go to Zakopanie, accept at once. This is Poland's "little Switzerland" about which all Poles have their holiday dreams. A car or bus trip from Warsaw to the village of Serock, where the rivers Bug and Narew meet, will take you to the scene of major war battles.

Language.—Don't worry too much about language difficulties; English is quite widely spoken (often with a Scots accent). The daily courtesy and enquiry phrases are of course helpful, but otherwise your stock of intelligent signs should get you through. (This is quite obviously bad advice.)

A ride from anywhere to anywhere in Warsaw on a tram, trolleybus or

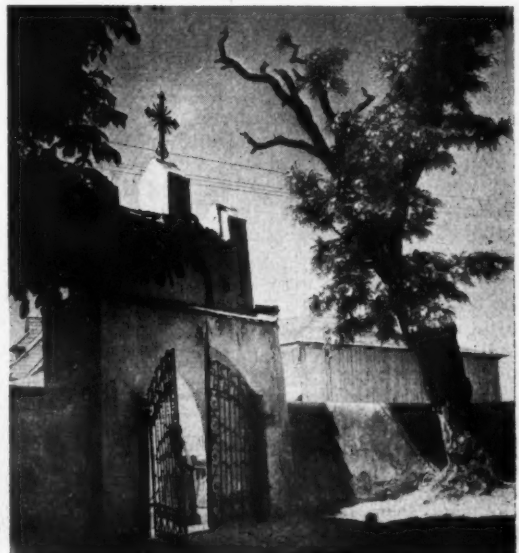
bus costs 15, 20 and 25 zlotis respectively. This enables you to go for a ride without stating your unpronounceable destination.

Food.—Accustom the British stomach to food gradually, and drink a glass (or two) of vodka with the main meals. This will help your digestion and your Polish!

Cigarettes.—The ones worth smoking

cost about the same as ours. Don't smoke HEL unless you are desperate. Take a supply of English cigarettes with you for yourself and the Polish architects who, in their war travels, have acquired a liking for them.

Presents.—You will find something for everybody at the Folk Art shops in Nowy Swiat and Al. Stalina, and at amazingly low prices.





Indian huts on the banks of the Amazon.

WHERE TO GO IN 1950 :

B R A Z I L

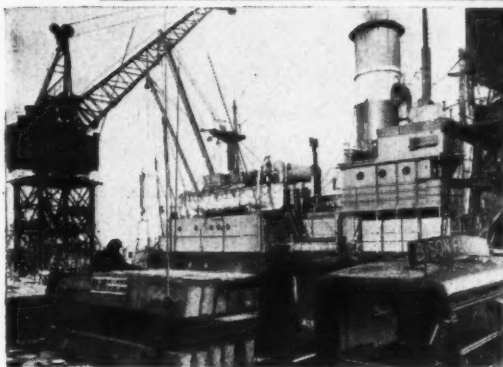
BY PERCY MARSHALL
AND ALF BYDEN

First, the problem of getting there. Travelling expenses alone are a considerable item (approximately £200 by air, £96 second class by sea, single fare). Then there is the currency problem, which only allows you £5, unless you can get a special permit; and of course you also need a passport and a Brazilian visa. It is a good idea to start with Rio. The city is laid out along the base of a fantastic mountain range.

The modern buildings in Rio are well documented. Make an early visit to the Brazilian Institute of Architects at Praça Marechal Floriano 2. You will find the Brazilian architects helpful. Contact also the British Council. Calls should also be made on SPHAN



Apartment building, S. Paulo.



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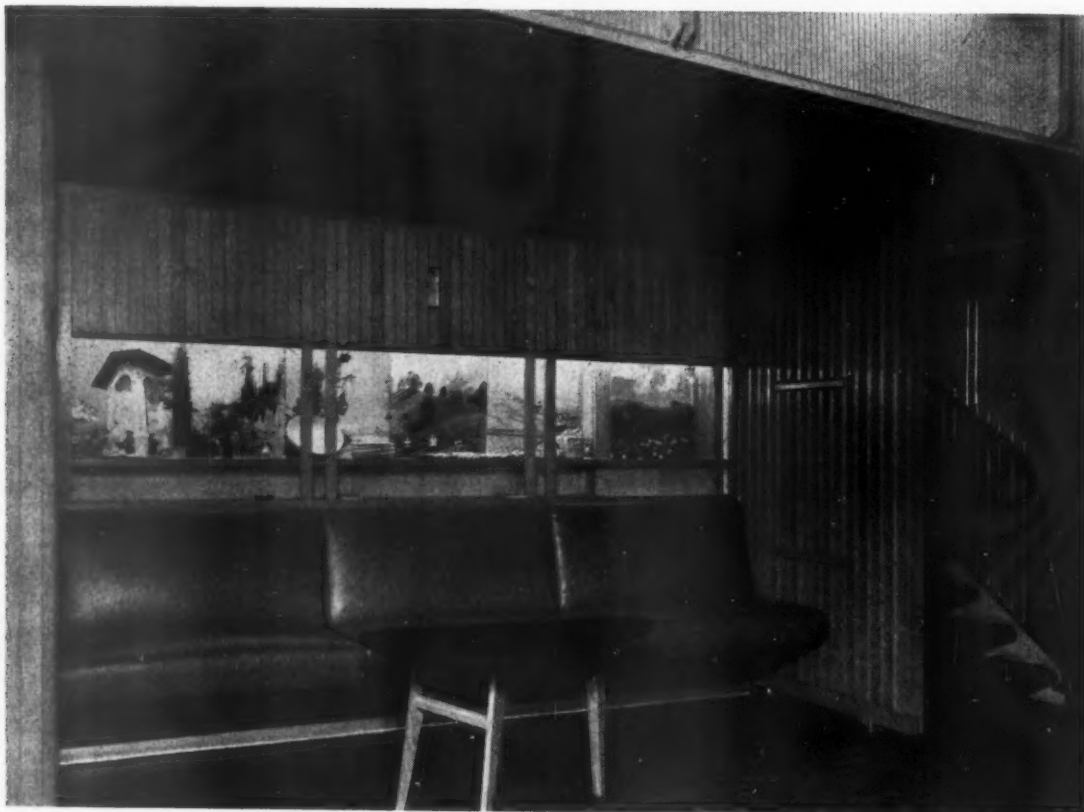
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Architectural Review Photograph

An interior view in the Swiss National Tourist Office, Golden Cross House,
Trafalgar Square, London, S.W.1. Architect: Alfred Roth, B.S.A., S.I.A., of
Zurich, in association with Messrs. T. P. Bennett & Son, F/A.R.I.B.A.

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(the famous Department in charge of Historic Buildings), the *Prefeitura* with its City Planning Office and Housing Department, and also on the Students' Centre of the National Faculty of Architecture in Rua Araújo Porto Allegre.

For a planner's-eye view of the city, ascend the Sugar Loaf; the peak is known as the "Corcovado." From Rio you can get to São Paulo, Brazil's second city, by air in 1½ hours at a cost of Cr. \$570 return or Cr. \$350 single (±52 Cruzeiros to the £, present rate).

Of municipal housing there is very little, but in both Rio and São Paulo visit the offices of the various State Insurance Institutes, known as IAPI, IAPC, IPATEC, etc., where you can arrange to see some low cost housing experiments for the various groups of workers.

An average hotel costs Cr. \$70 for bed and breakfast, and meals on the average Cr. \$25 each. Remember, too, to learn Portuguese, *not* Spanish. The climate is almost entirely tropical.

Most people think only of Rio and São Paulo when they think of Brazil, and it is true that most of the interesting cultural activities and the best contemporary architecture is concentrated there.

But a few new buildings of great importance, and above all, a treasure of Portuguese Baroque architecture are to be found along the coast and at certain places in the interior.

As Brazil is the third largest country in the world, distances are enormous, and travelling is a major problem. Very few roads and railways exist, and when they do exist they are often slow and inconvenient, so the traveller does better to go by ship or 'plane.

The return fare by air from Rio inland to Belo Horizonte is only Cr. \$530, and includes a total of 3 hours flying, in contrast with 16 hours by train. Outside Belo Horizonte you will find a group of buildings by Oscar Niemeyer, intended to be the backbone of an expensive gambling resort at Pampulha. Gambling was, however, outlawed just when the casino, the restaurant, the yacht club, and the church were completed, and today they are empty.

From Belo Horizonte you can go by train (6 hours each way, Cr. \$70) to Ouro Preto, an old mining town dating from the great gold rush of the early 17th century, which has some remarkable Portuguese Baroque churches.

Of the coastal cities, with their Baroque churches, hot and turbulent Recife, with nearby quiet Olinda, and beautiful S. Salvador (Bahia) are extremely interesting. Don't miss the modern water tower in Olinda and the interior of San Francisco in S. Salvador, which is entirely gilded, nor the cloister of the same church (women not allowed).

The oldest church in South America. Santos Cosme e Damiao in Igarasso, Pernambuco.



Negro settlement near Para.



Coffee being spread out to dry.





Montmartre and the Basilica of the Sacred Heart

WHERE TO GO IN 1950: FRANCE

BY CECIL C. HANDISYDE

A three week trip through France by car—one week largely historical buildings, one week basking on the Mediterranean shore, one week on the mountain roads of the French Alps.

The Channel crossing; Newhaven-Dieppe, is a most convenient one. It will cost about £20-£25 for the car and four passengers to Dieppe, and back. From Dieppe to Clermont Ferrand by way of Rouen, Chartres, Orléans and Bourges, a wealth of cathedral architecture. Then a westerly detour through le Puy and the Gorges du Tarn. The road through the Gorge is not fast and the scenery is very fine. This stretch

should be reckoned at 60 miles a day. Le Puy, with an exciting cathedral standing high on one of several volcanic mounds which are a feature of the valley. From le Puy to Avignon, Arles, Nîmes, the Pont du Gard—some miles out of Nîmes, and one of the two hotels there might well provide a quiet night's rest. It is a short run from Avignon to Marseilles.

The route from Marseilles to Nice is fine; the red rock coast just east of St. Raphael is attractive. The Grand Hotel de la Baumette at Agay is very comfortable, in a moderately expensive but fairly quiet class. An attraction is a



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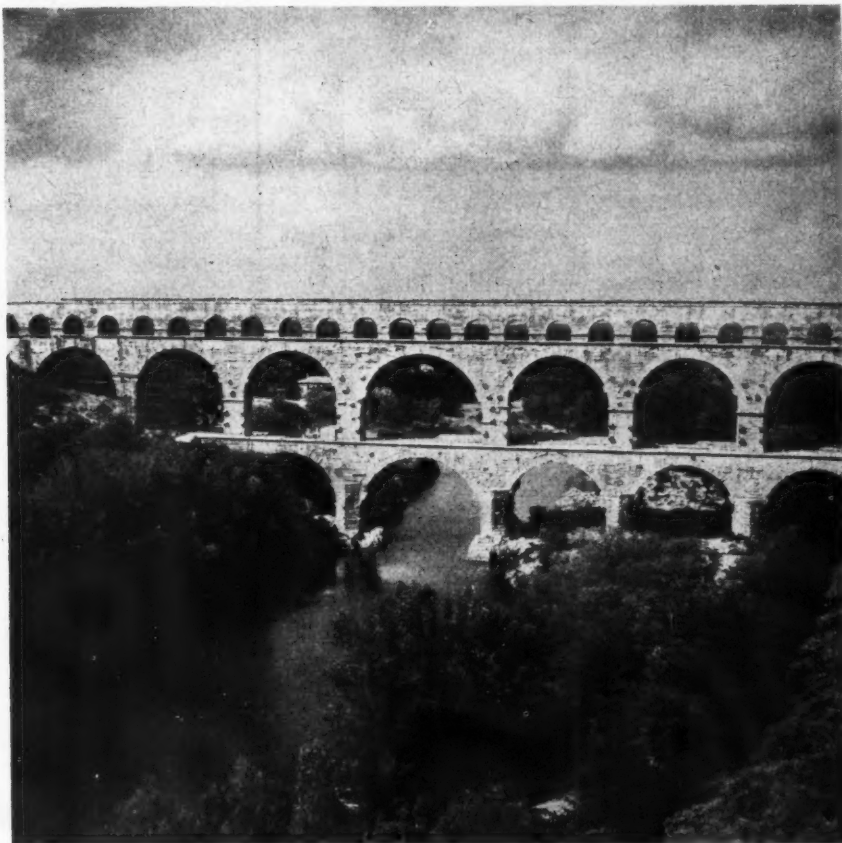
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*The Pont du Gard,
Nîmes.*

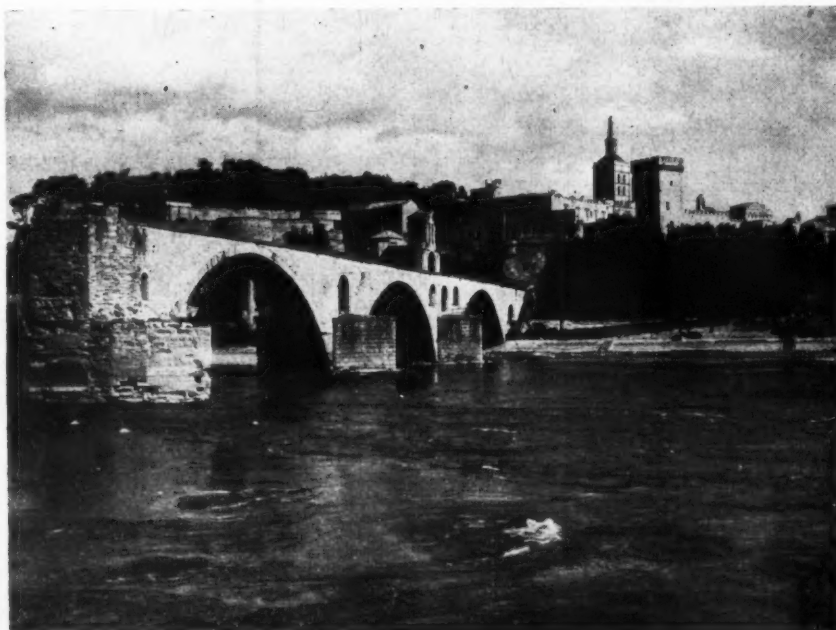


fourth floor dining terrace with fine views over the sea and also toward inland mountains. For the rich the Roches Fleuris at Aiguebelle Plage; food is excellent.

From Nice the Grandes Routes des Alps via Barcelonnette, Briançon and St. Jean-de-Maurienne provides all the

scenery one could wish for. Gradients are not very steep, but the road several times climbs to about 8,000 feet and in places the surface is poor, and there are stretches of fairly exciting narrow roads with innumerable hairpin bends with no protection between the road and the drop to valleys some thousands of feet

*The Saint Bene
Bridge at Avignon.*



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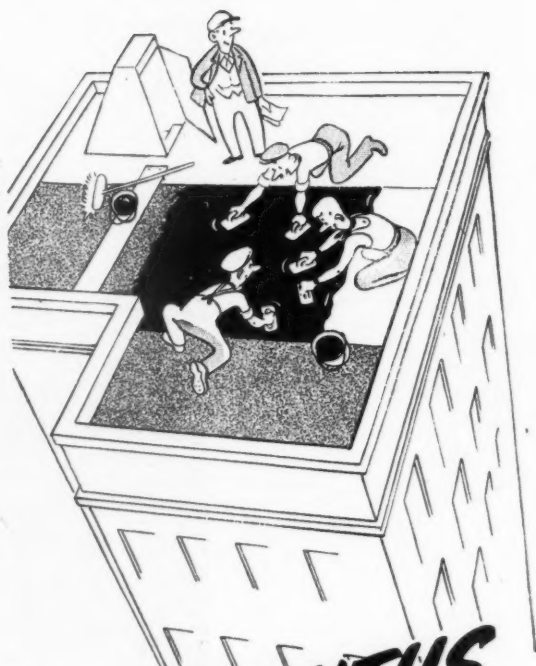
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below. Good tyres are essential and bad weather driving on this route should be attempted only by those with good nerves. The Col d'Izard route from Barcelonnette to Briançon is the most exciting part of the journey. The route passes various towns fortified by Vauban; and Colmar and Entrevaux are especially worth seeing with Briançon as a place to stop a night.

A tour of this kind should on no account be made without the aid of the Michelin Guide. This has good detail maps of all towns, and information about hotels and food. The *Hotellerie du Moulin des Ruats*, a small and quiet hotel two or three miles from Avallon; chicken in burgundy, and snails, if you happen to like them. Fontainbleu, a visit to the small *Filet de Sole* restaurant will improve one's impression of this town.

A holiday of this kind could be done on the foreign travel allowance in reasonable comfort. This assumes modest hotels most nights *en route* with good ones every third or fourth night, and a moderately expensive one while on the coast. While touring it will be found more convenient, and much cheaper, to avoid hotels and restaurants for lunch and to rely largely on picnic meals. Casual stops for tea and pastries prove expensive. A double room in a reasonable hotel in the smaller towns costs 350-500 francs for the two persons. A private bathroom, where available, would put the cost up to 500-800

francs. Except in very small towns, the hotels in this class will have running water in bedrooms, but the hot tap is unreliable. Meals could cost anything from 250 francs per person, but for a good meal and a moderate "bottle" about 400 should be allowed. Hotels along the Mediterranean coast are considerably more expensive. Accommoda-

tion during the end of August and early September is never difficult and the temperature in the south at that time is just hot enough to justify doing nothing but eat, drink, sleep and bathe.

The signposting of roads is almost always excellent and road surfaces generally are good, except in towns.



Announcements

Surveys of economic and commercial conditions in Denmark (price 2s. net), Mexico (price 1s. 3d. net) and Portuguese West Africa (price 1s. net) have been published by H.M. Stationery Office. These are the latest volumes in the series of Overseas Economic Surveys issued by the Commercial Relations and Exports Department of the Board of Trade.

Mr. T. J. Rushton, F.R.I.B.A., partner of the late Sir Charles Nicholson, Bt., M.A., F.R.I.B.A., has taken into partnership his son, Mr. H. T. Rushton, L.R.I.B.A. The practice will continue under the style of Nicholson and Rushton, 2, New Square, Lincoln's Inn, London, W.C.2 (tel.: Holborn 6229).

Mr. Hulme Chadwick A.R.C.A., has moved his offices to 26, Eccleston Street, Victoria, London, S.W.1 (tel.: Sloane 3219 and 5849.)

Sir Ernest Oppenheimer, Chairman of the Anglo-American Corporation of South Africa, Rhokhana Corporation and other companies, and Mr. Robert C. Stanley, Chairman of the International Nickel Company of Canada, have joined Lord McGowan and Mr. A. Chester Beatty as Honorary Presidents of the Copper Development Association.

The Ministry of Works Pre-stressed Concrete Exhibition opened in Manchester on Tuesday at Marks and Spencer's, Oldham Street. The Exhibition will remain in Manchester until Tuesday, January 24.

The United Kingdom expect again to import from Sweden considerable quantities of timber, pulp, paper and iron ore, and provision has also been made for allowing the import of various manufactured goods. It is estimated that Swedish exports to the United Kingdom in 1950 may be to the value of about £60 million.

"Armourplate" and Toughened Glass film.—"Armourplate" is the name given to Pilkington's fully toughened polished plate glass. The film shows that when a piece of ordinary polished plate glass is bent it breaks as soon as sufficient weight is applied to produce the comparatively low limiting tensile stress in the surface. The secret of toughened glass goes back to the old laboratory experiment known as Rupert's Drops, where drops of molten glass are made to fall into water. The resulting pear-shaped pieces are highly resistant to impact, but when the tail is nipped off the Rupert's Drop is shattered. The same principle has been applied in manufacturing toughened glass by heating polished plate glass in a furnace, withdrawing it, and allowing jets of cold air to play on it. Under the rapid cooling the exterior zones contract, then, more slowly, the centre, as it cools, also tries to contract. This action set up compressive zones near the two surfaces and holds the centre in tension. It is because the centre is held in tension that "Armourplate" glass must not be cut or worked when once processed.

The Minister of Town and Country Planning has decided to extend by twelve months the period within which local planning authorities have to consider applications under the Town and Country Planning (General Development) Order, 1948, relating to certain existing mineral workings. In a circular letter to local authorities explaining this decision it is pointed out that in certain cases a good deal more information has to be collected than is at present available, and the Ministry is arranging with various associations and mineral undertakings for its compilation. The importance to certain mineral undertakings of having an early settlement of their application is, however, stressed, and local planning authorities are asked to deal with such applications as promptly as possible.

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

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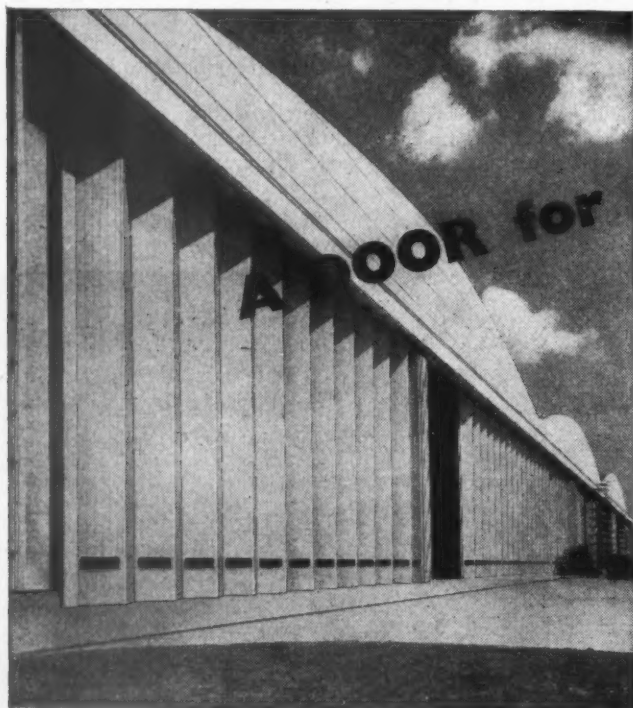
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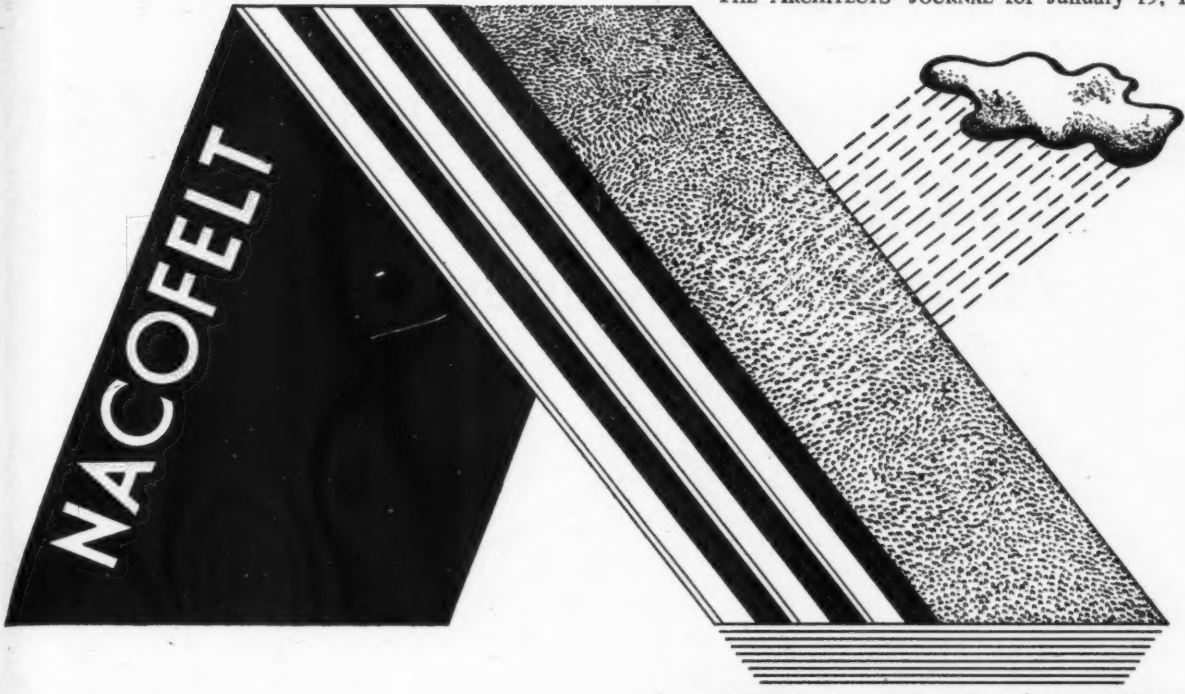
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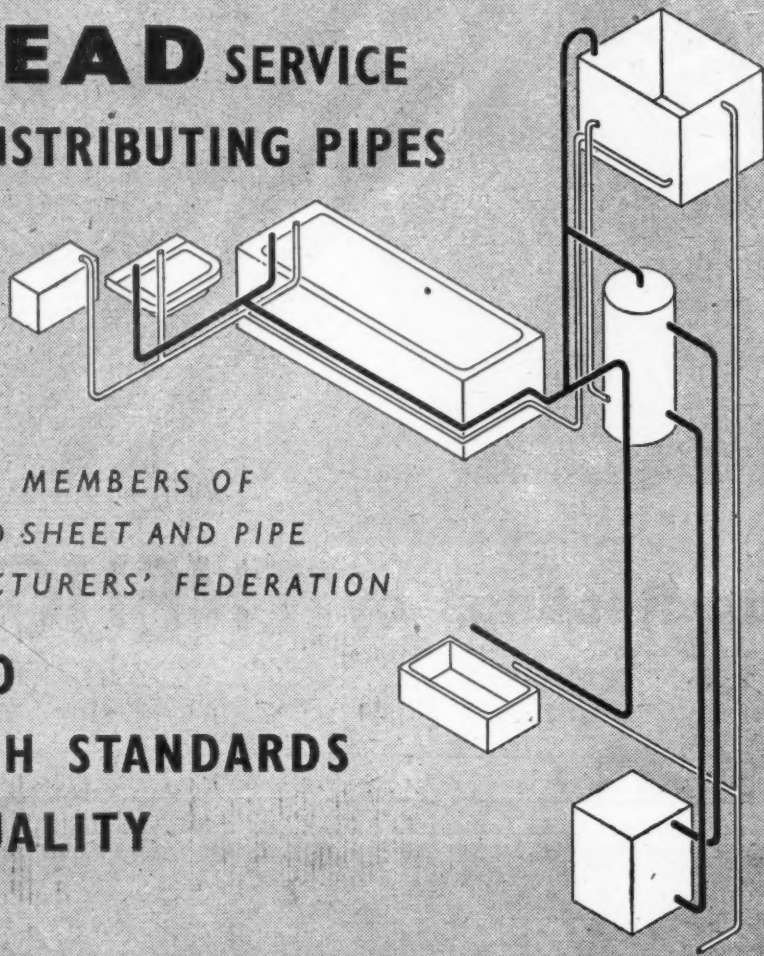
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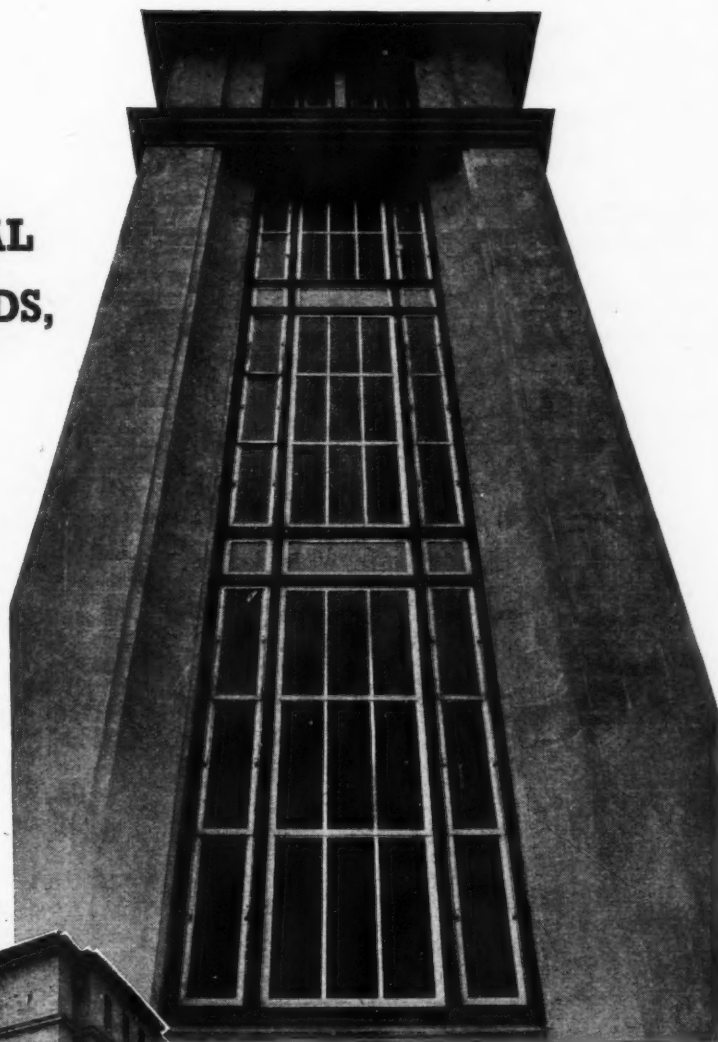
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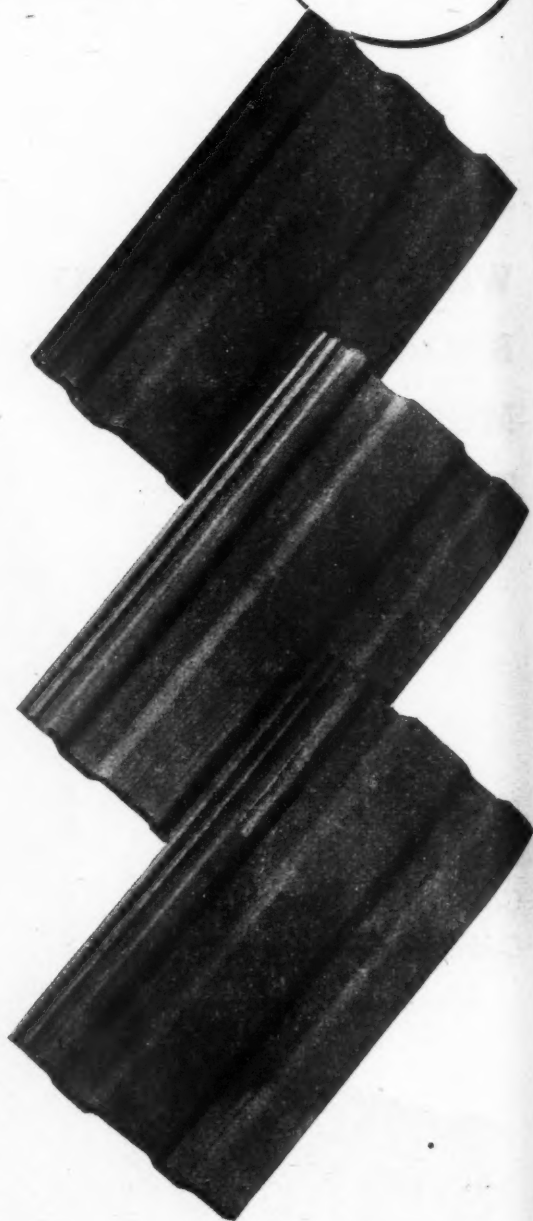
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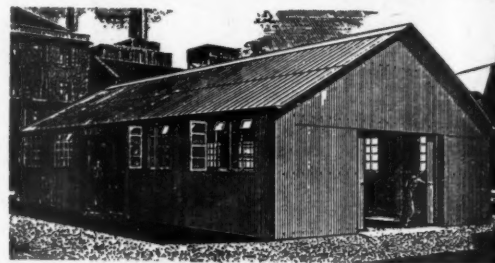
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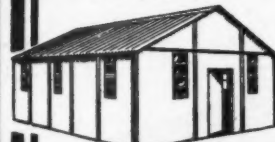
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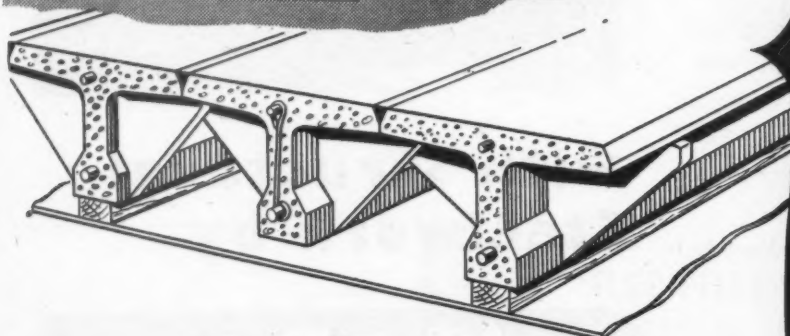
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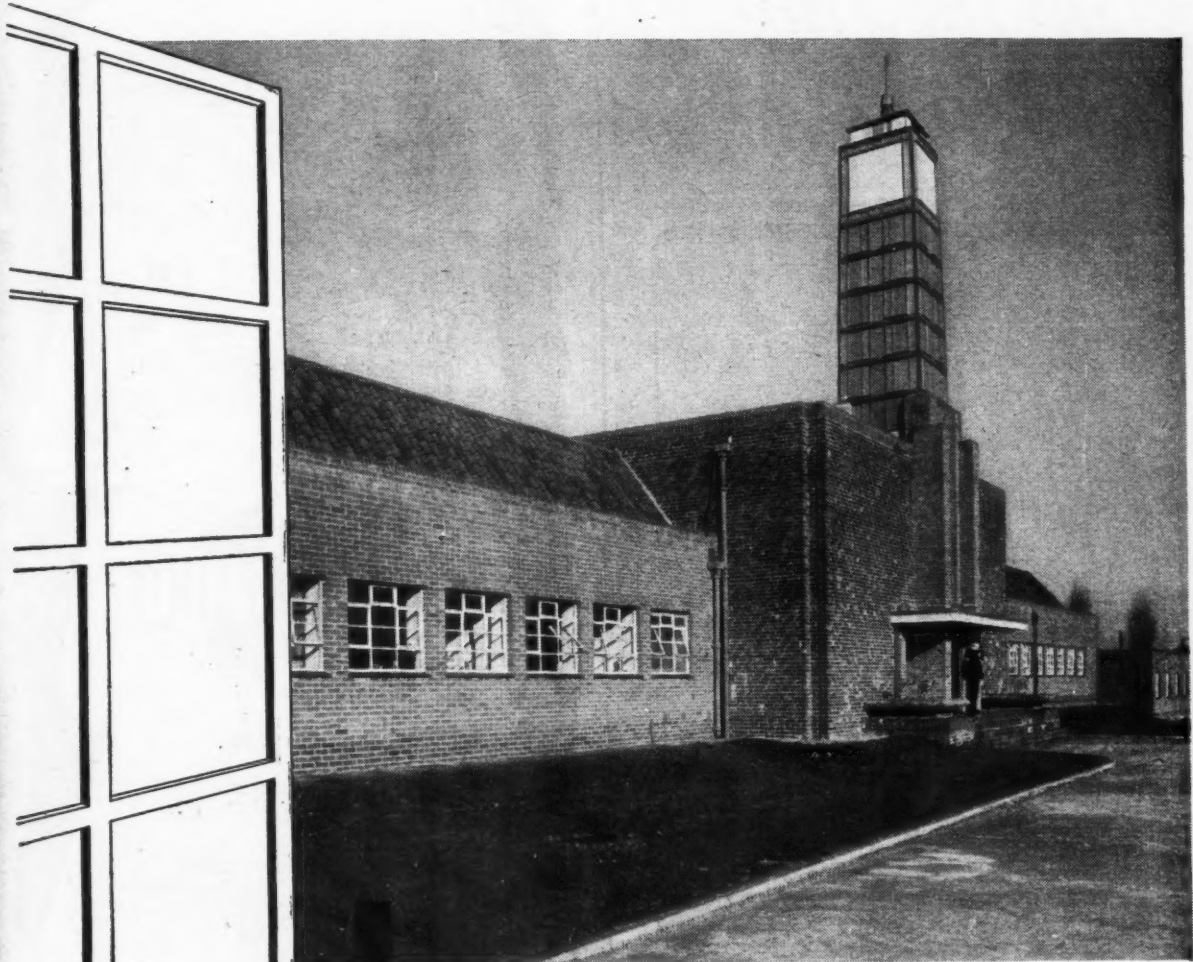
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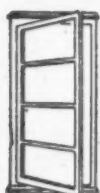
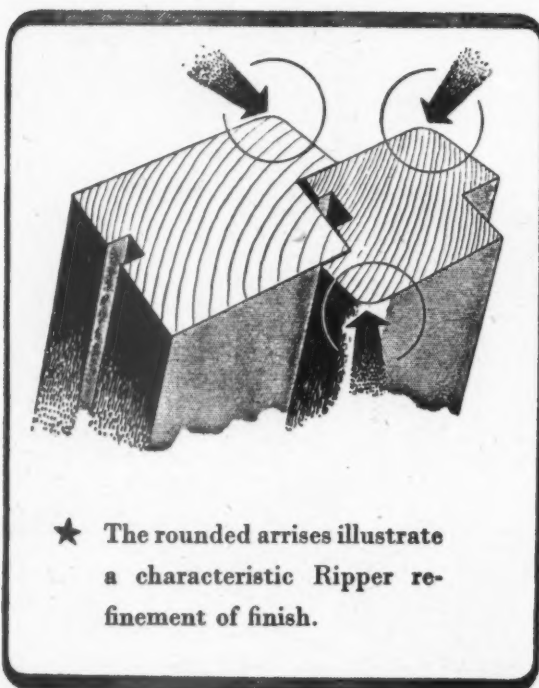
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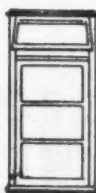


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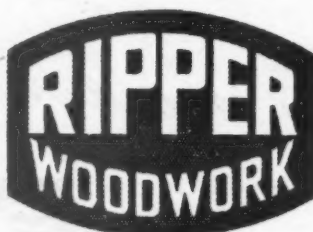
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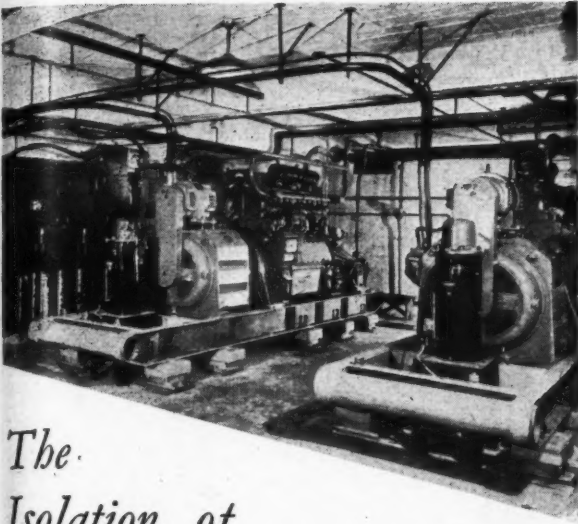
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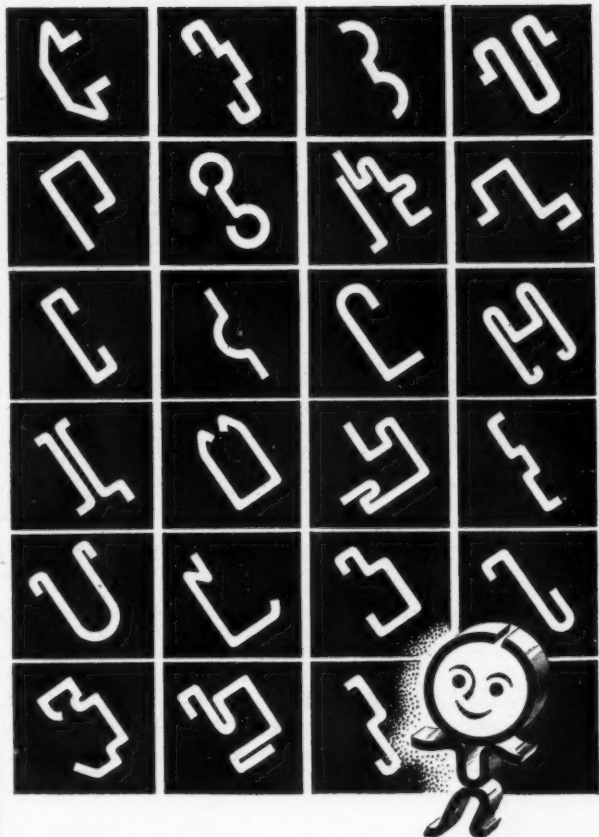
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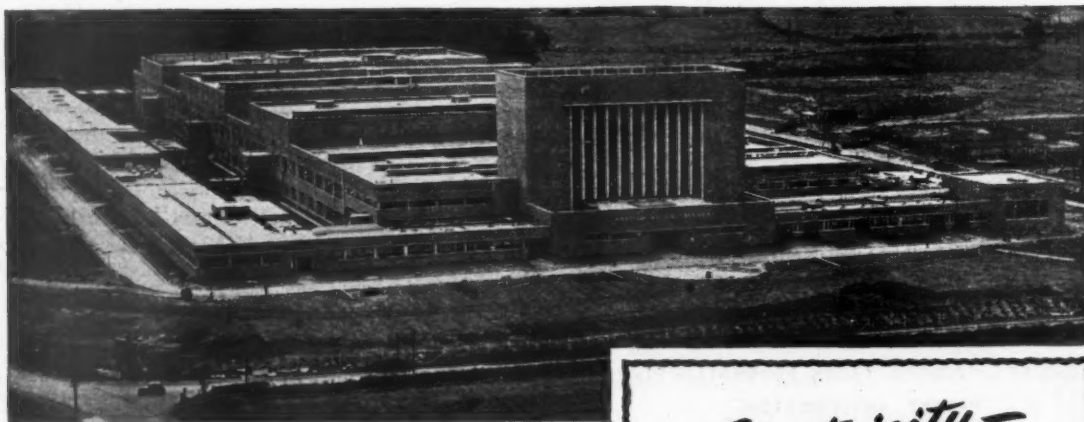
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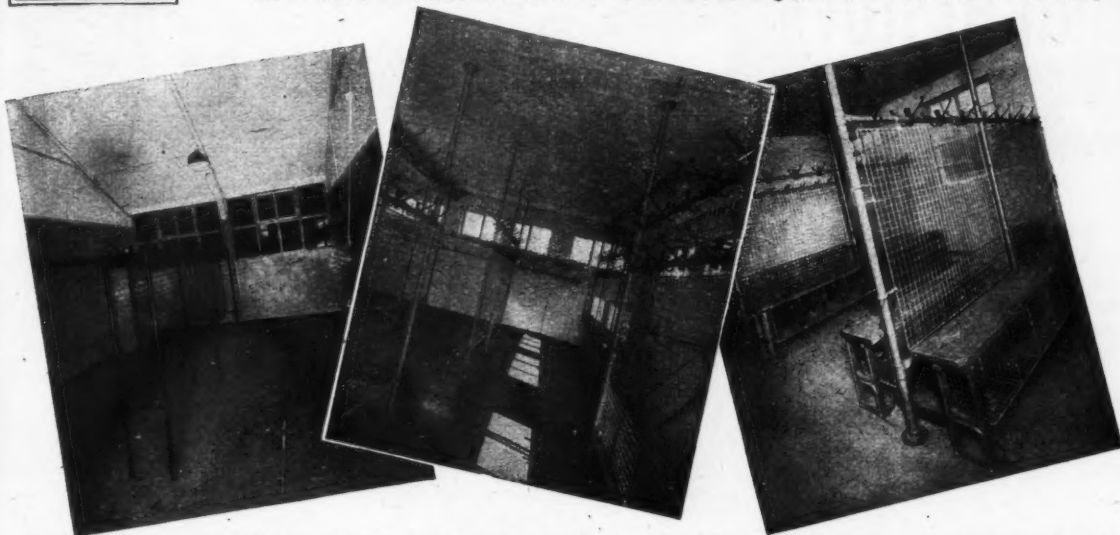
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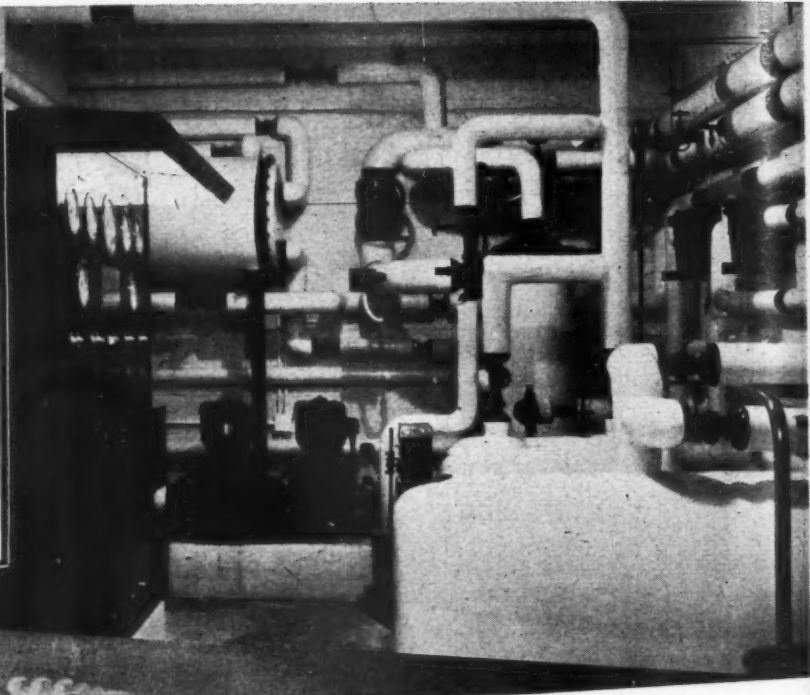
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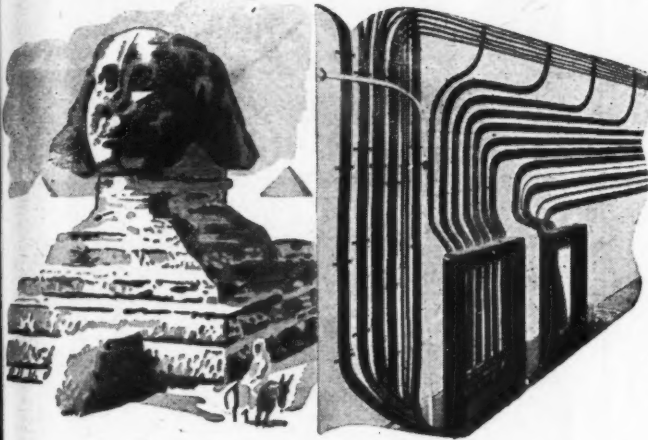
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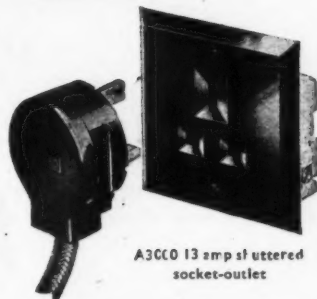
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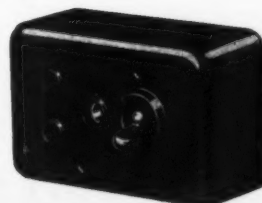
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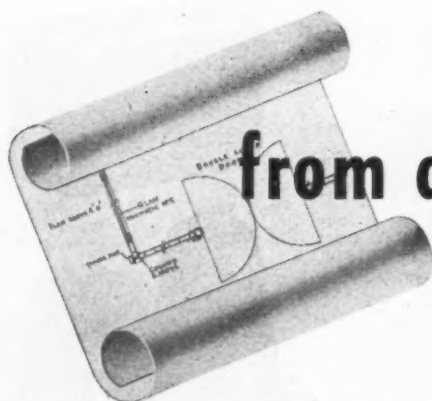
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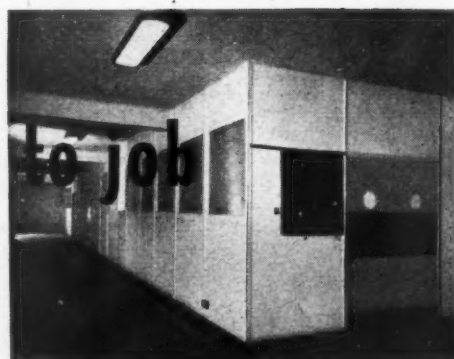
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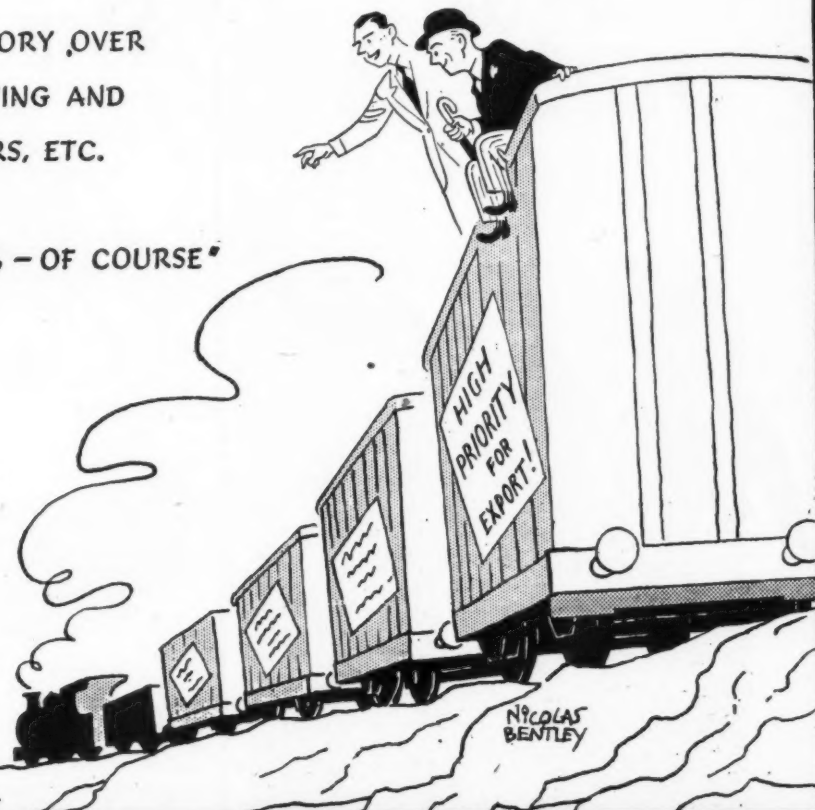
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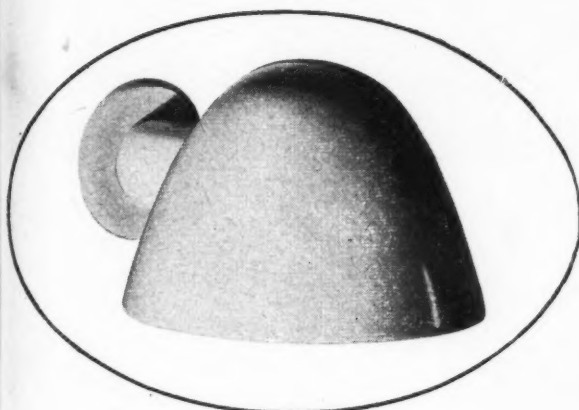
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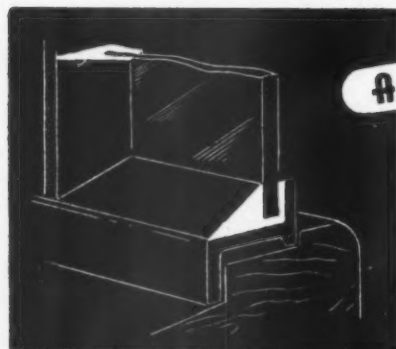


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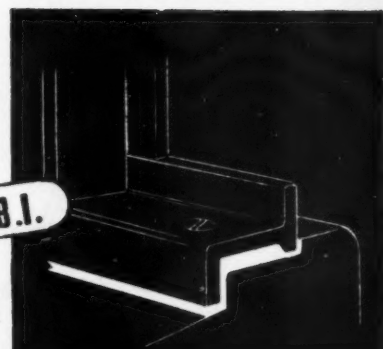


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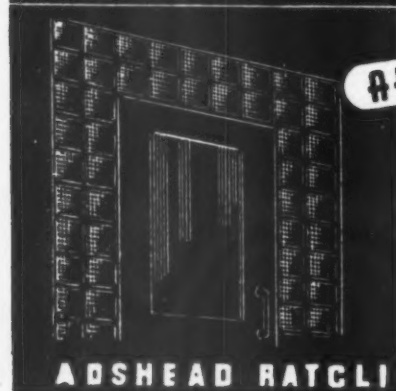
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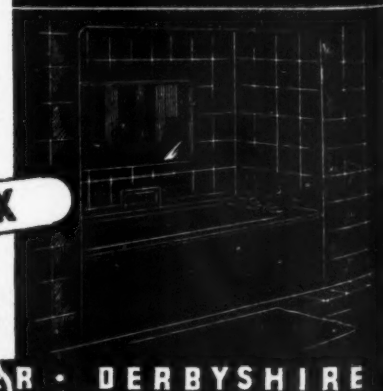
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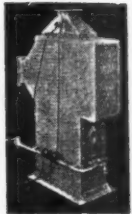
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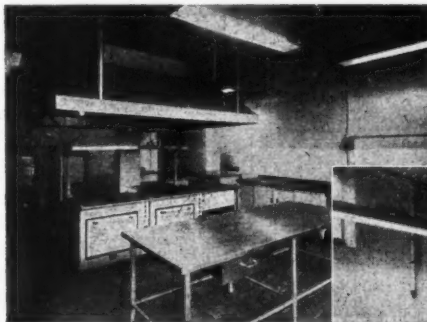
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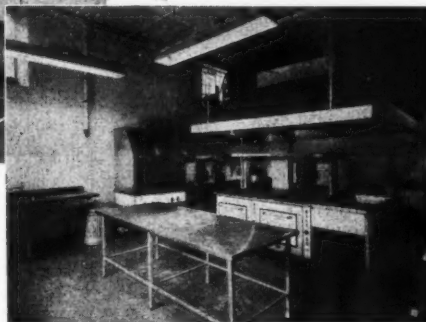
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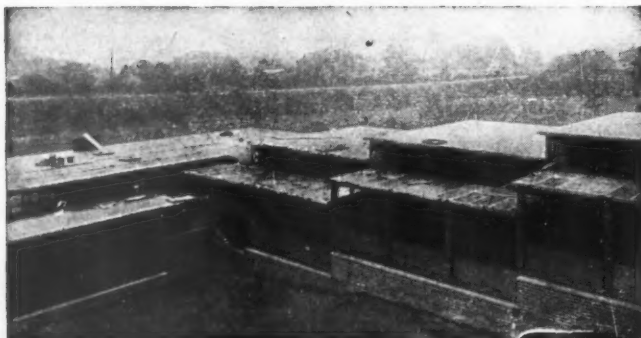
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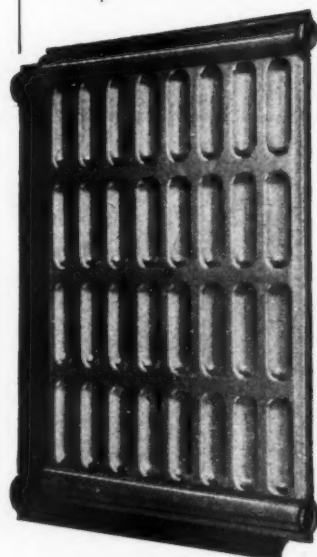
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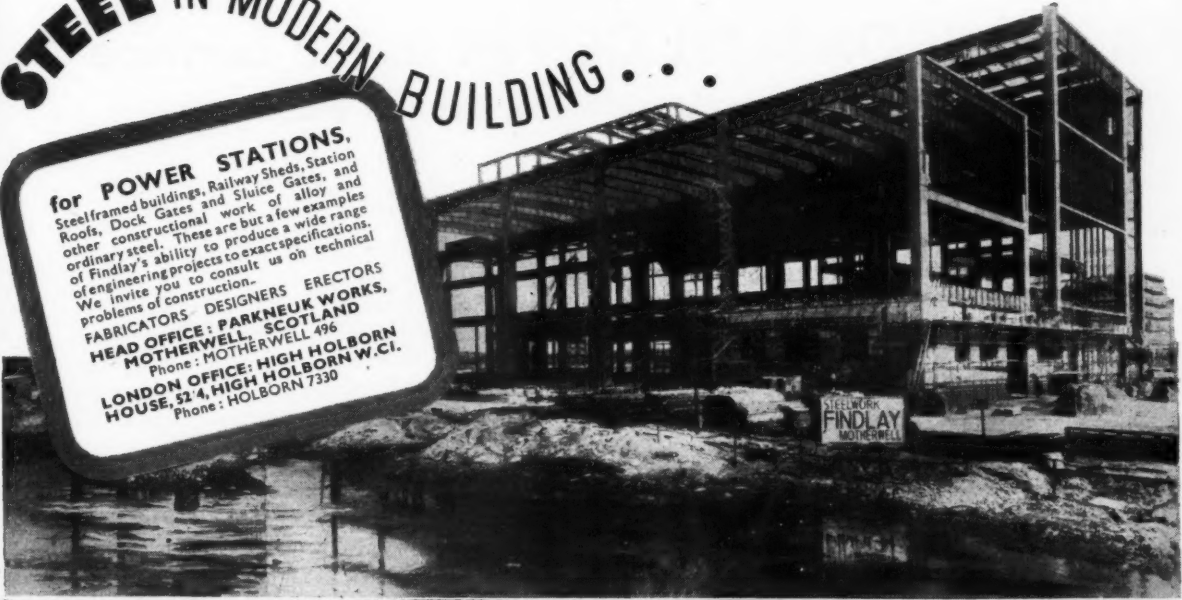
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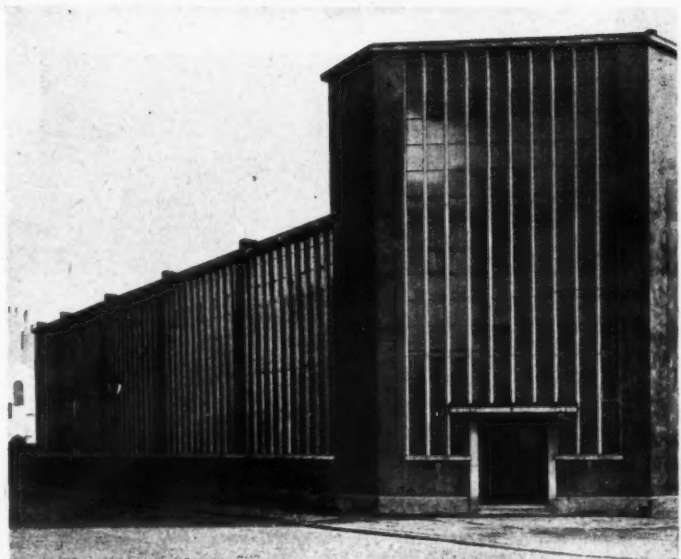
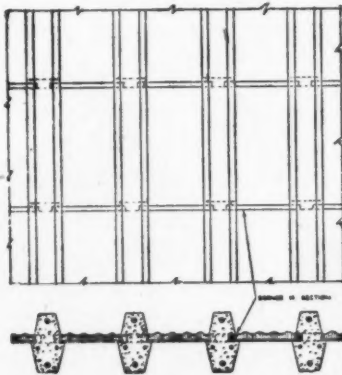
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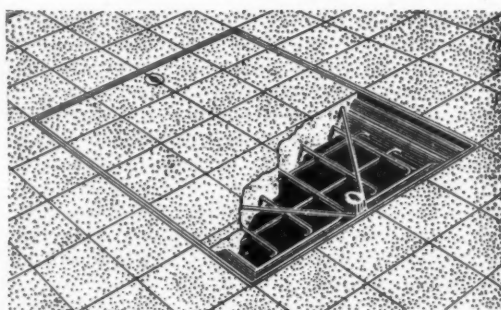
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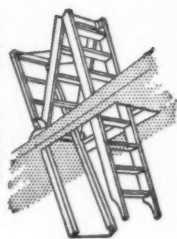
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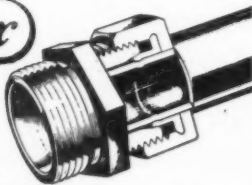
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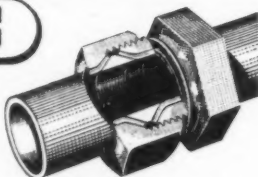
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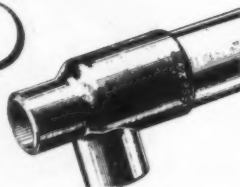
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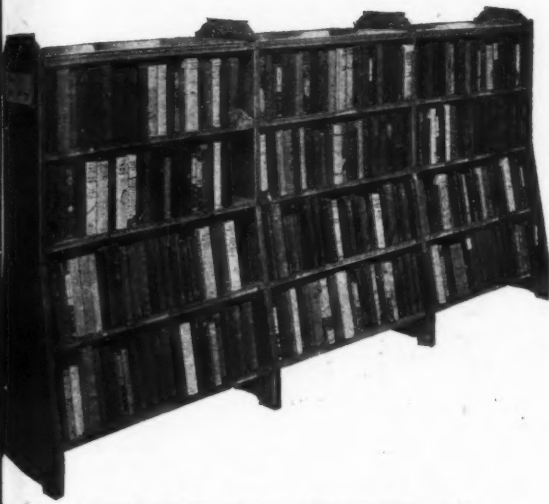
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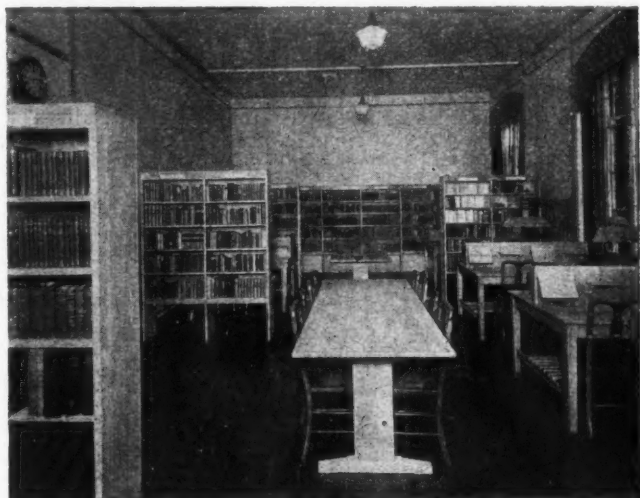
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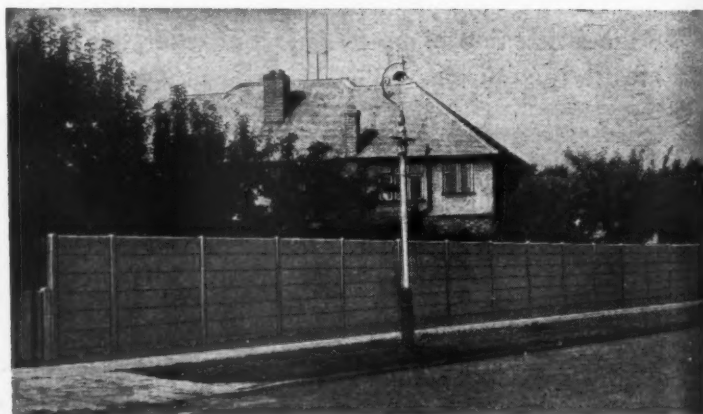
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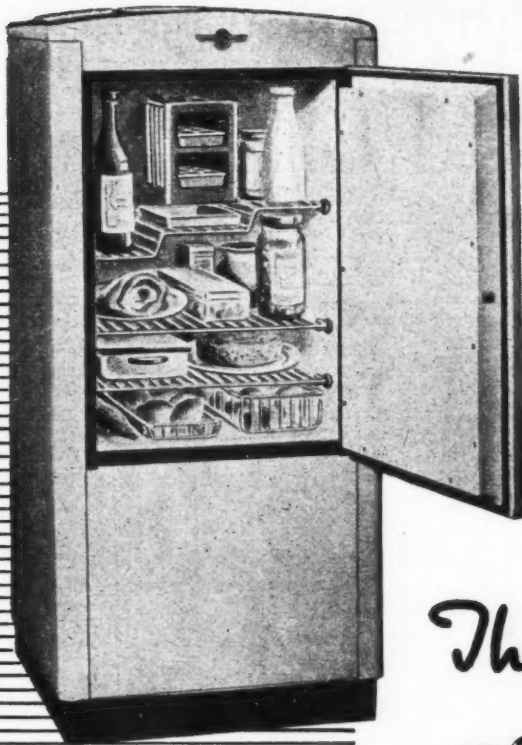
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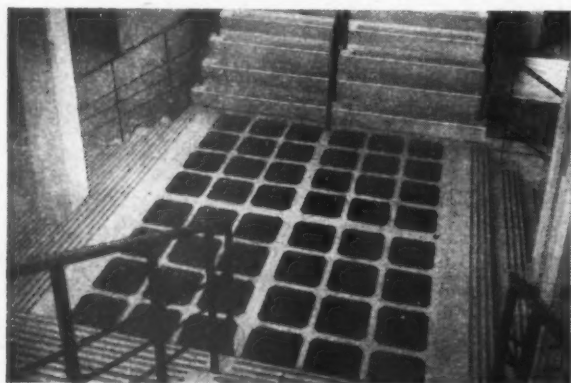
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	12	2 1/2" x 2 1/2" x 1/4"	6' 3 1/4"	
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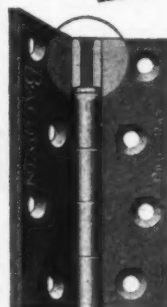


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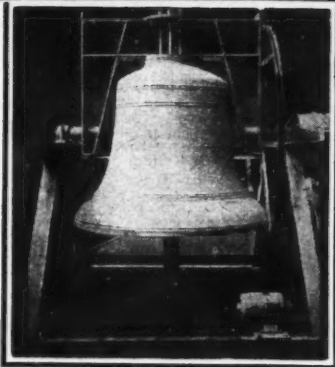
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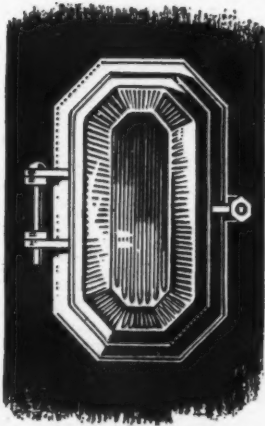
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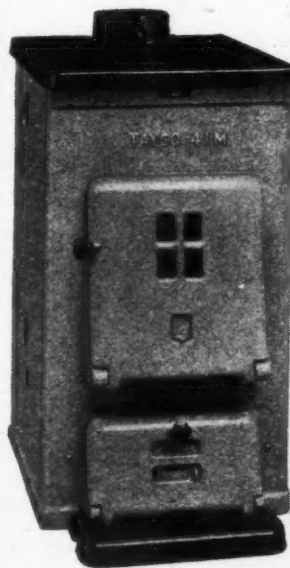
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CLASSIFIED ADVERTISEMENTS

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

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

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

MINISTRY OF WORKS.

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognized training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing. Similar vacancies also exist for ASSISTANTS, with specialized knowledge and experience in stonemasonry, particularly in detailing and jointing of ashlar and carved stonework.

Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a deduction is made in the Provinces.

Although these are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.C.10/T, Ministry of Works, Abell House, London, S.W.1. 2055

LONDON COUNTY COUNCIL.

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

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

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

COUNTY BOROUGH OF CARLISLE.

CITY ENGINEER'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment on the permanent staff at a salary of £595-£660 (A.P.T., Grade VI).

Applicants must be Members of the Royal Institute of British Architects.

Housing accommodation will be provided for the successful applicant if required.

Forms of application and conditions of employment may be obtained from the City Engineer, 18, Fisher Street, Carlisle, to whom applications should be returned not later than Monday, 30th January, 1950.

H. D. A. ROBERTSON,

Town Clerk.

Town Clerk's Office,

15, Fisher Street, Carlisle.

3140

SOMERSET COUNTY COUNCIL.

COUNTY PLANNING COMMITTEE.

Applications are invited for the appointment of a DEPUTY COUNTY PLANNING OFFICER, at a salary of £1,000 per annum, rising by annual increments of £50 to £1,200 per annum.

The appointment is subject to the Provisions of the Local Government Superannuation Act, 1937.

Applicants must be Members or Associate Members of the Town Planning Institute, have had extensive experience in town and country planning, including experience in a County Planning Department, and must have administrative ability.

Additional qualifications and experience in architecture, engineering or surveying would be an advantage.

Applications must be made on forms obtainable from the undersigned, and must be completed and returned not later than Tuesday, 7th February, 1950.

R. W. DALE,

County Planning Officer.

41, Upper High Street, Taunton, Somerset. 3188

BOROUGH OF WILLESSEN. APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

The Council invite applications for the appointment of three Third Class Architectural Assistants on the permanent staff of the Borough Engineer and Surveyor's Department. The salary attaching to the post will be Administrative, Professional and Technical, Grade III, of the National Salary Scales, namely, £450 per annum, rising by £15 per annum to £495 per annum, plus London weighting.

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, giving age, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Friday, 3rd February, 1950.

It will be necessary for the successful candidate to provide his own housing accommodation as the Council is not in a position to assist.

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

(Sgd.) R. S. FORSTER.

Town Clerk.

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

3134

Amended Advertisement.

CARDIGANSHIRE COUNTY COUNCIL.

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

(a) QUANTITY SURVEYOR. A.P.T., Grade VIII.

(b) ARCHITECTURAL ASSISTANT. A.P.T., Grade VI.

(c) ARCHITECTURAL ASSISTANT. A.P.T., Grade V.

Applicants for (a) should have experience in taking off, abstracting, billing, measuring up, and settling final accounts for school buildings, and should be an Associate R.I.C.S. (Quantities).

Applicants for (b) should have experience in the preparation of general and specialist specifications and in the preparation of Bills of Quantities, measuring up work, estimating and valuing, and the preparation of small water and sewage schemes. Preference will be given to applicants with qualification of the R.I.C.S.

Applicants for (c) should have experience in the design and construction of post-war schools, and preference will be given to applicants with R.I.B.A. qualifications.

The Council is unable to provide housing accommodation.

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

Applications, stating age, qualifications, experience, present appointment and salary, together with two recent testimonials and, suitably endorsed, are to be delivered to the undersigned, not later than 24th January, 1950.

ERIC CARSON,

Clerk to the Cardiganshire County Council.

Cambrian Chambers, Aberystwyth.

3112

COUNTY OF LINCOLN—PARTS OF

LINDSEY.

COUNTY ARCHITECT'S DEPARTMENT.

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

(a) ONE SENIOR ARCHITECT, Grade VI, £595 to £660 per annum.

(b) TWO ASSISTANT ARCHITECTS, Grade IV, £490 to £525 per annum.

A subsistence allowance will be paid to married men finding it necessary to obtain lodgings in Lincoln whilst maintaining their homes outside Lincoln, of 25s. per week for six months, plus third-class railway fare to their home each two months.

Applicants need not have had previous Local Government experience, but preference will be given for appointment (a) to Associates of the R.I.B.A.

Applications, stating age, experience, qualifications, and accompanied by two recent testimonials, should be sent to the undersigned not later than the 23rd January, 1950.

A. RONALD CLARK, A.R.I.B.A.,

A.M.T.P.I.,

County Architect.

County Offices, Lincoln.

3090

BOROUGH OF FOLKESTONE.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the established post of Senior Architectural Assistant in the Borough Engineer's Department. Salary within Grade A.P.T., VI (£595-£660).

Terms and conditions of the appointment and forms of application, which are returnable not later than Tuesday, 31st January, 1950, may be obtained from the Borough Engineer, Municipal Offices, Folkestone.

C. F. NICHOLSON,

Town Clerk.

Town Clerk's Office, Folkestone.

5th January, 1950.

3222

COUNTY BOROUGH OF WEST HAM. Applications are invited for appointment of DEPUTY BOROUGH ARCHITECT and PLANNING OFFICER. Salary £1,200 x £50-£1,300 per annum, inclusive.

Appointees subject to three month's notice in writing on either side, to the Local Government Superannuation Acts, and to the Council's Conditions of Service.

Preference given to applicants with Local Government Service and those with experience in redevelopment of "blighted" areas.

Details, together with application form, which should be returned not later than 6th February, 1950, obtainable from Borough Architect and Planning Officer, Thomas E. North, F.R.I.B.A., 70, West Ham Lane, Stratford, E.15.

G. E. SMITH,

Town Clerk.

West Ham Town Hall, Stratford, E.15. 3125

BARNET URBAN DISTRICT COUNCIL.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, at a salary in accordance with Grade A.P.T., V, of the National Scheme (£520-£570 per annum), plus the appropriate London weighting.

Applicants should have sound experience of housing work, the preparation of working drawings, and the supervision of work under construction, and preference will be given to Associate Members of the R.I.B.A.

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.

The Council may be in a position to assist the successful candidate in obtaining housing accommodation within the district.

Applications, stating age, qualifications, and particulars of present and previous appointments, together with copies of three recent testimonials, should be sent to the Borough Engineer and Surveyor, Ravenscroft House, Wood Street, Barnet, Herts. on or before the 28th January, 1950.

ALFRED S. MAYES,

Clerk of the Council.

Clerk's Department, Municipal Offices, Wood Street, Barnet. 3097

LONDON COUNTY COUNCIL.

Architect to the Council: ROBERT H. MATTHEW, A.R.I.B.A.

Deputy Architect: J. L. MARTIN, M.A., D.Phil., F.R.I.B.A.

ARCHITECTS FOR HOUSING DIVISION.

The following are required for a newly-created Housing Division of the Architect's Department, which will ultimately be responsible for the design and erection of all the Council's housing:—

ARCHITECT, PRINCIPAL ASSISTANT (Professional) (£950-£1,100).

ARCHITECT, Grade I (£840-£960).

ARCHITECTS, Grade II (£700-£840).

ARCHITECTS, Grade III (£550-£700).

TECHNICAL ASSISTANTS. Salaries up to £580.

SITE ORGANISER (£1,000).

QUANTITY SURVEYOR, Grade I (£840-£960).

This staff is required as soon as possible for preparatory work and for the immediate taking over of new schemes. The Site Organiser's function will be to collate information in regard to sites, act as co-ordinating clerk of works, and assist on the sites in maintaining smooth and rapid production. Some experience of programmed work would be a desirable qualification.

Those appointed will be required to contribute to the Council's Superannuation and Provident Fund.

Form of application obtainable from the Architect to the Council, the County Hall, Westminster Bridge, London, S.E.1. Stamped addressed foolscap envelope necessary. Applications, marked AR/P/H, must be returned to the Architect. Canvassing disqualified. (1465) 3146

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Architect to the Council: ROBERT H. MATTHEW, A.R.I.B.A.

Deputy Architect: J. L. MARTIN, M.A., D.Phil., F.R.I.B.A.

APPOINTMENT OF PRINCIPAL HOUSING ARCHITECT AND ASSISTANT HOUSING ARCHITECT.

Following the Council's recent decision to place upon the Architect to the Council the responsibility for the design and erection of all new housing schemes, applications are invited for the following newly-created positions in the Architect's Department:—

PRINCIPAL HOUSING ARCHITECT (£1,500 x £1,700). To be responsible to the Architect for a new Housing Division, which will ultimately be responsible for the design and erection of all the Council's housing, and will immediately accept responsibility for new schemes.

ASSISTANT HOUSING ARCHITECT (£1,250 x £1,550).

The Principal Housing Architect must be able to organise, lead, and inspire a large division. The Assistant Housing Architect will assist the Principal mainly in the sphere of design.

No age limit. Experience of public architecture not essential.

Form of application obtainable from the Architect to the Council, The County Hall, Westminster Bridge, London, S.E.1. Stamped addressed foolscap envelope necessary. Applications, marked AR/P/H, must be returned not later than 31st January, 1950. Canvassing disqualified. (1464) 3144

BOROUGH OF CHELTENHAM.

APPOINTMENT OF ARCHITECTURAL AND QUANTITY SURVEYING ASSISTANTS.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:

- (a) SENIOR ARCHITECTURAL ASSISTANT. A.P.T., Grade VII (£535-£710 p.a.).
 (b) ARCHITECTURAL ASSISTANT. A.P.T., Grade VI (£520-£570 p.a.).
 (c) JUNIOR ARCHITECTURAL ASSISTANTS (TWO). A.P.T., Grade I (£390-£435 p.a.).
 (d) ASSISTANT QUANTITY SURVEYOR. A.P.T., Grade V (£520-£570 p.a.).
 (e) WORKER-UP (Quantity Surveyors' Section). Temporary Scale, Grade A, Class III (£330 ls.-£353 ls. p.a.).

Candidates should fulfil the following conditions:-

Posts (a) and (b) should be Registered Architects and have had good professional training, experience of housing schemes, the layout of estates and general architectural design. Preference will be given to Associates of the R.I.B.A.

Post (c) must have been architecturally trained, be preparing for the R.I.B.A. Examinations, and have had good general experience.

Post (d) must be experienced in preparing Bills of Quantities for Housing and other building works, measuring works in progress for interim and final accounts, and preference will be given to Associates of the R.I.C.S.

Post (e) should have a knowledge of Building Construction, squaring dimensions, checking variations in costs of labour and materials, and similar duties in connection with large Housing Contracts.

All appointments will be subject to the provisions of the National Scheme of Conditions of Service: to successful applicants passing medical examinations, and contributing to the Council's Superannuation Fund; and to one month's notice in writing on either side.

Applications, stating age, training, qualifications, experience and previous appointments, and accompanied by two recent testimonials, should reach the Borough Engineer, Municipal Offices, Cheltenham, not later than Monday, 23rd January, 1950.

The Council will be prepared, in appropriate cases, to consider giving assistance in the provision of housing accommodation.

F. D. LITTLEWOOD.

Town Clerk.

Municipal Offices, Cheltenham.

30th December, 1949.

3127

CITY OF STOKES-ON-TRENT.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from suitably qualified persons for the following appointments to the permanent staff:-

- (a) SENIOR ASSISTANT ARCHITECTS. Salary A.P.T. Div., Grade VI, £595-£660.
 (b) ASSISTANT ARCHITECTS. Salary A.P.T. Div., Grade V, £550-£570.
 (c) ARCHITECTURAL ASSISTANTS. Salary A.P.T. Div., Grade I, £390-£435.

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

Previous experience of Local Government work is not essential.

Suitable housing accommodation can be made available to the successful candidates for the appointments of Senior Assistant Architects.

Applications, giving date of birth, particulars of training, experience, etc., with copies of two recent testimonials, should be received by J. R. Pigott, F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, endorsed with the title of the appointment applied for, not later than Tuesday, 31st January, 1950.

HARRY TAYLOR.

Town Clerk.

Town Hall, Stoke-on-Trent.

3rd January, 1950.

3110

ST. PANCRAS BOROUGH COUNCIL.

APPOINTMENT OF TEMPORARY ASSISTANT ARCHITECTS.

Applications are invited for the undermentioned temporary appointments:-

- (a) SENIOR ASSISTANT ARCHITECT (Grade VI, £595-£660).
 (b) ASSISTANT ARCHITECT (Grade VA, £550-£570).
 (c) ASSISTANT ARCHITECT (Grades IV-V, £480-£570).
 (d) JUNIOR TRAINEE (General Division, £135-£385, according to age).

London weighting, according to age, is payable in addition to the above scales.

In the case of (a), (b) and (c), candidates must be suitably qualified, and should have had good experience in the design and detailing of municipal housing schemes and the construction of flats. The commencing salary may be varied, according to qualifications and experience.

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

Applications by letter, stating age, training, qualifications, experience, past and present engagements, together with copies of three recent testimonials, must be delivered to the undersigned not later than the 10th February, 1950.

R. C. E. AUSTIN.

Town Clerk.

St. Pancras Town Hall, Euston Road,

London, N.W.1.

4th January, 1950.

3151

BEDFORDSHIRE COUNTY COUNCIL.

Applications are invited for the following appointments on the established staff of the County Architect:-

- (a) CHIEF QUANTITY SURVEYOR. A.P.T., Grade VIII. Salary £685-£760 per annum.
 Applicants should be experienced in the preparation of Bills of Quantities, Specifications, detailed approximate estimates, valuation and measurement for interim certificates, and settlement of final accounts.

- (b) ENGINEERING ASSISTANT (HEATING). A.P.T., Grade VI. Salary £595-£660 per annum.

Applicants should be experienced in the preparation of scheme, estimates and Specifications for heating and hot water services, including inspection.

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

The County Council has decided to provide living accommodation for staff, but this may not be available for some time.

Married officers who are living in the district but are maintaining their families in another home away from Bedford, may claim a special allowance of 25s. per week until they obtain accommodation.

Application forms can be obtained from the undersigned on receipt of a stamped addressed envelope, and must be returned not later than 28th January, 1950.

J. B. GRAHAM.

Shire Hall, Bedford.

3174

COUNTY BOROUGH OF SOUTHPORT.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR, on the permanent staff of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade V of the A.P.T. Division of the National Joint Council Scale of Salaries (£520-£570 per annum). The commencing salary within the Grade will be determined according to the candidate's qualifications and experience.

Applicants should be experienced in the preparation of bills of quantities, the checking of interim valuations, and the settlement of final accounts. Experience with a local authority is not essential, and preference will be given to Corporate Members of the Royal Institute of Chartered Surveyors (Quantity Surveyors' Section).

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

Applications, endorsed "Quantity Surveyor," stating age, with full particulars of qualifications and experience, accompanied by copies of three recent testimonials, must be delivered to the Borough Engineer, Town Hall, Southport, not later than Monday, 6th February, 1950.

R. EDGAR PERRINS.

Town Clerk.

Town Hall, Southport.

January, 1950.

3170

CITY AND ROYAL BURGH OF EDINBURGH.

TOWN PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments:-

- (a) ONE SENIOR AREA PLANNING OFFICER (£800-£900).
 (b) TWO PLANNING ASSISTANTS, A.P.T., Grade V (£520-£610).
 (c) TWO SENIOR DRAUGHTSMEN, A.P.T., (£395-£440).

Qualifications and experience of candidates should be as below:-

Appointment (a): Corporate Membership of the Town Planning Institute is essential, together with an additional qualification in Architecture. The successful candidate will be responsible for examining planning applications under the Act, and advising the Town Planning Officer. His responsibilities will also include the preparation of detailed layout plans, street elevations and contributing advice upon architectural developments from time to time in connection with these duties.

Appointment (b): Corporate Membership of the Town Planning Institute desirable, together with an additional qualification in Architecture, Engineering or Surveying. Intermediate examination certificate of a recognised school essential and final examination standard desirable. Experience in a town planning office desirable, but not essential. Duties will include preparation of detailed layout plans, site inspection and other work connected with statutory development and drawings for public exhibition.

Appointment (c): Training and experience in Architecture, Engineering or Surveying at least up to Intermediate standard at a recognised school essential. Candidates should be good draughtsmen and will prepare fair copies of layout plans connected with statutory development, and copies for public exhibition. Skilled perspective drawing an added advantage.

Applications, stating age, present and previous appointments and present salary, qualifications and experience, should be forwarded to:- The Town Planning Officer, City Chambers, Edinburgh, 1, not later than 28th January, 1950.

J. STORRAR.

Town Clerk.

6th January, 1950.

3226

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

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

- (a) ONE SENIOR ASSISTANT ARCHITECT, Grade VIII. Salary £685-£760.

Applicants must be Associate R.I.B.A., with a good knowledge of work undertaken by a Local Authority, preferably with experience in School work.

- (b) ONE SENIOR ASSISTANT ARCHITECT, Grade VII. Salary £635-£710.

Applicants must be Associate R.I.B.A., with a good knowledge of work undertaken by a Local Authority.

- (c) ONE ASSISTANT ARCHITECT, Grade III, IV and V. Salary £450-£570.

Applicants should be of R.I.B.A. Intermediate Examination standard, and have had good architectural experience.

The appointments will be subject to one month's notice in writing on either side and to the terms of the National Joint Council's Scheme of Conditions of Service and the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, the County House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 6th February, 1950.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS.

Town Clerk.

3205

QUANTITY SURVEYORS required by British Railways (L.M.R.) in London, for Architectural Building Works; sound working knowledge, preferably trained in professional office. Capable of dealing with Site Measurements, Interim Valuations, Approximate Estimates and "Taking Off" under supervision in accordance with S.M.M.

Salary £510, rising to £575.

SENIOR QUANTITY SURVEYOR also required.

Salary £600, rising to £630.

Apply, stating age, qualifications and experience, to Box 3216.

BOROUGH OF KEIGHLEY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointment on the permanent staff. Conditions of Service and salary are in accordance with the National Joint Council Scheme for Local Authorities.

- ASSISTANT ARCHITECT, Grade V. Salary scale £520 to £570.

Preference will be given to applicants who are Associate Members of the R.I.B.A. possessing general experience in an Architectural office or department.

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

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by the names of three referees, not later than Friday, 3rd February, 1950.

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

Borough Architect.

Borough Architect's Department,

College Street, Keighley.

3204

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

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

Canvassing disqualifies. (13)

3155

COUNTY BOROUGH OF WEST HARTLEPOOL.

Applications are invited for the appointment of TWO ASSISTANT ARCHITECTS, Grade A.P.T., VI (£595-£660), in the Borough Architectural Department.

The appointments are subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (with the exception of paragraph 39), and the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass a medical examination.

Applicants should be Associate Members of the R.I.B.A. and have good knowledge and experience of schools.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of three recent testimonials, are to be sent to S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Saturday, 4th February, 1950.

The Council are prepared to consider the allocation of housing accommodation to the successful applicants if required.

ERIC J. WAGGOTT.

Town Clerk.

Municipal Buildings, West Hartlepool.

January, 1950.

3180

BOROUGH OF WIMBLEDON.

ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of a General Architectural Assistant, on Grade A.P.T. IV, on the established staff of the Borough Engineer and Surveyor's Department.

Commencing salary is £480 per annum, rising by three annual increments of £15 to a maximum of £525. London weighting according to age is paid in addition to the salary. Applicants must have had experience in municipal architectural and housing work, and must have passed Intermediate Examination of R.I.B.A.

The appointment is in accordance with the National Scheme of Conditions of Service, and is subject to the provisions of the Local Government Superannuation Acts, also to satisfactory medical examination.

Applications, endorsed "Architectural Assistant," stating age, qualifications, past and present experience in detail, all former local government service, present and previous appointments, length of notice required to terminate present appointment, and the names and addresses of three persons as referees, must be forwarded to the Borough Engineer and Surveyor, Town Hall, Wimbledon, S.W.19, by 28th January, 1950. Candidates must disclose in writing to the undersigned whether to their knowledge they are related to any member or senior official of the Council.

EDWIN M. NEAVE, Town Clerk.

Town Hall, Wimbledon, S.W.19 3171

COUNTY BOROUGH OF MIDDLESBROUGH.

EDUCATION COMMITTEE.

ARCHITECT'S DEPARTMENT.

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

- (a) ONE ASSISTANT ARCHITECT. A.P.T., Division VI (salary £595-£660 per annum).
- (b) TWO ASSISTANT ARCHITECTS. A.P.T., Division V (salary £520-£570 per annum).
- (c) ONE ASSISTANT INSPECTOR OF SCHOOL BUILDINGS (salary A.P.T., Division I, £390-£435 per annum).

In respect of appointment (a) housing accommodation is being made available, and can, if necessary, be provided by the authority for the successful applicant.

Applicants for appointment (a) must be Associates of the Royal Institute of British Architects, with experience in the design and construction of school buildings and capable of carrying out large contracts.

Applicants for appointment (b) should preferably be fully qualified architects, with experience in the design and construction of school buildings.

Applications for appointment (c) must be experienced in the repair and maintenance of Buildings and Playgrounds, and be able to prepare reports, specifications and estimates.

Forms of application and conditions of service may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom applications should be returned not later than 9 a.m. on Friday, 27th January, 1950.

E. C. PARR, Town Clerk.

BOROUGH OF ROMFORD.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

- (a) ARCHITECTURAL ASSISTANT. Grade VI, £595, rising to £660.
- (b) ARCHITECTURAL ASSISTANT. Grade V, £520 to £570.
- (c) ASSISTANT BUILDING INSPECTOR. Grade II, £420-£465.

The provision of housing accommodation will be considered for posts (a) and (b).

Applicants for post (a) must be Chartered Architects and possess a knowledge of design and construction of public buildings, housing, etc., and have had experience of dealing with contracts, preparation of estimates and specifications for repairs, and administrative experience in conducting correspondence, examining accounts, and supervising labour.

Applicants for post (b) must be Registered Architects, possessing a thorough knowledge of design and construction, and have had Municipal experience.

For post (c) applicants should have had previous experience in a similar capacity, and preference will be given to candidates holding a Building Surveyor's Diploma of the R.I.B.A. or the Building Inspector's Certificate of the Institution of Municipal Engineers. This post carries a travelling allowance in accordance with the National Scheme, which affords a minimum payment of £84 p.a. for the use of a car.

Each appointment is subject to (a) the National Scheme of Conditions of Service, (b) the Local Government Superannuation Act, 1937, (c) one month's notice on either side, (d) satisfactory passing of a medical examination.

Applications, appropriately endorsed and clearly stating post sought, candidate's age, present position, salary and qualifications, and details of previous experience, together with the names of two referees of whom enquiry may be made as to character and ability, must reach me not later than Monday, 6th February, 1950.

J. TWINN, Town Clerk.

Town Hall, Romford, January, 1950. 3189

NORTH THAMES GAS BOARD.

ARCHITECTURAL ASSISTANTS required, preferably experienced in the design, alteration and maintenance of Industrial buildings, and capable of preparing surveys, working drawings, details and specifications. Salary range £480-£650 per annum, according to age and qualifications. The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

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

COUNTY BOROUGH OF DERRY.

APPOINTMENT OF ARTIST-DRAUGHTSMAN.

Applications are invited for the appointment of an Artist-Draughtsman, on the permanent staff of the Planning Department of the Borough Engineer and Surveyor, at a salary in accordance with Grade III of the A.P.T. Division (£450-£495).

Applicants should have experience of perspective drawing and the various projections. Ability in freehand sketching and practical experience of exhibition work would be an advantage, and preference will be given to candidates who have had previous experience of this kind of work in the planning department of a local authority.

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

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

Applications, appropriately endorsed, together with copies of two recent testimonials or names of two persons from whom references may be obtained, should be sent to M. L. Francis, F.R.I.C.S., M.I.Mun.E., M.Inst.R.A., Borough Engineer and Surveyor, The Council House, Corporation Street, Derby, to reach him not later than Monday, the 30th January, 1950.

Canvassing, directly or indirectly, will be a disqualification, and candidates are required to say whether they are related to any member or senior official of the Council.

E. H. NICHOLS, Town Clerk.

January, 1950. 3181

METROPOLITAN BOROUGH OF BERMONDSEY.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the following permanent appointment in the Council Architect's Department:—

ASSISTANT ARCHITECT, Grade IV, thence to V A.P.T. Division of the N.J.C. Scale of Salaries (£480-£570 per annum, plus London weighting up to £30).

The commencing salary within the grades above mentioned will be according to age and experience, but preference will be given to candidates who are Members of the R.I.B.A. (or hold equivalent qualifications), in which case the commencing salary will be within A.P.T. V. If the successful candidate has passed only the R.I.B.A. Intermediate Examination or its equivalent, the commencing salary will be within A.P.T. IV, and will progress to A.P.T. V, upon the candidate becoming a Registered Architect.

Candidates, who should not be over 45 years of age, should have experience in the design and detailing of flats and the planning of housing estates, and a knowledge of Town Planning will be an advantage.

The successful candidate will be required to pass satisfactorily a medical examination, and the salary will be subject to deductions under the Council's Superannuation Acts. The appointment will be subject to the N.J.C. Scheme of Conditions of Service.

Applications, on forms to be obtained from the undersigned, and completed in the candidate's handwriting, must be delivered to me not later than Tuesday, 28th February, 1950.

S. E. FREEMAN, Town Clerk.

Municipal Offices, Spa Road, S.E.16. 3183

GLENROTHES DEVELOPMENT CORPORATION.

Applications are invited from suitably qualified persons (under 45 years of age) in respect of two appointments:—

JUNIOR ASSISTANT ARCHITECT. Salary £400×£220 to £520 per annum.

Applicants should have passed at least the Intermediate Examination of the R.I.B.A.

The posts will be supernumerary under the Local Government (Scotland) Act, 1937, and successful candidates will be required to pass a medical examination.

Particulars of the assistance which the Corporation will give in securing housing accommodation will be given at the time of interview.

Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the undersigned not later than 7th February, 1950.

J. N. ROGER, Secretary.

Auchmuty House, Markinch, 6th January, 1950. 3163

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT—PLANNING STAFF.

Applications are invited for positions of PLANNING OFFICER, Grade I (£240-£260), Grade II (£270-£290), and Grade III (£350-£370), and TECHNICAL ASSISTANT (up to £360). The positions are supernumerary.

Candidates for Grade I positions should have architectural and town planning qualifications, and will be engaged on Reconstruction Areas and Detailed Planning. Candidates for Grade II and III positions should have architectural or surveying qualifications with town planning qualification in addition, and will be engaged on Development Plan, Development Applications and Detailed Planning. Technical Assistants are required for work on Development Applications and Detailed Planning.

Particulars and application forms from the Architect (AR/P/P), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (11) 3154

BOROUGH OF FOLKESTONE.

JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the established post of Junior Architectural Assistant in the Borough Engineer's Department. Salary within Grade A.P.T. III (£430-£495).

Terms and conditions of the appointment and forms of application, which are returnable not later than Tuesday, 31st January, 1950, may be obtained from the Borough Engineer, Municipal Offices, Folkestone.

C. F. NICHOLSON, Town Clerk.

Town Clerk's Office, Folkestone. 3223

NATIONAL COAL BOARD—SOUTH-WESTERN DIVISION.

Applications are invited for the following posts in the Divisional Architect's Department, National Coal Board, South-Western Division, Cambrian Buildings, Mount Stuart Square, Cardiff:—

(a) SENIOR QUANTITY SURVEYORS. Salary £850×£35-£1,150 per annum.

Applicants should be Fellow or Associate Members of the Royal Institute of Chartered Surveyors (Quantities Section), and with considerable experience in the preparation of estimates, bills of quantities, measuring up and adjustment of final accounts.

(b) QUANTITY SURVEYORS, Grade I.

QUANTITY SURVEYORS, Grade II.

Salaries: Grade I, £700×£25-£875 per annum.

Grade II, £450×£25-£700 per annum.

Applicants should be Associate Members of the Royal Institute of Chartered Surveyors (Quantities Section), with experience in the preparation of estimates, bills of quantities, measuring up and adjustment of final accounts.

(c) QUANTITY SURVEYING ASSISTANTS, Grade I.

QUANTITY SURVEYING ASSISTANTS, Grade II.

Salaries: Grade I, £410×£20-£550 per annum.

Grade II, £300×£20-£440 per annum.

Applicants should have passed the Intermediate Examination of the Royal Institute of Chartered Surveyors, and those applying for Grade I vacancies should have had at least five years' office experience.

The appointments are subject to the provisions of the Board's Superannuation Scheme.

Applications in writing, stating age, education, qualifications, experience, previous and present appointments, and present salary, and submitting the names of two referees, should be delivered to the Divisional Establishment Officer, National Coal Board, South-Western Division, Cambrian Buildings, Mount Stuart Square, Cardiff, not later than the 31st January, 1950.

Applicants should state clearly the appointment for which application is made. 3162

GELLYGAER URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited from persons who have passed the R.I.B.A. Intermediate Examination or its equivalent for the permanent appointment of Architectural Assistant, at a salary within A.P.T., Grades II to IV, depending upon experience.

Applications, stating all relevant information and the names of two persons from whom references can be obtained, must be received by me not later than 4th February, 1950.

Canvassing in any form will disqualify.

D. W. C. MORGAN, Clerk.

Council Offices, Hengoed, Glam. 3167

MIDDLESEX COUNTY COUNCIL.

THREE CHIEF PLANNING ASSISTANTS.

(A.P.T., VII, £665, rising to £740 p.a.; car allowance normally granted.) Should possess good experience of planning practice, be Corporate Members of Town Planning Institute, and hold present posts not less than 2 years. Preference given to candidates with qualification in architecture, surveying, engineering or economics.

Established, pensionable, subject to medical examination, and prescribed conditions of service. Written applications, stating age, experience, qualifications, etc., with copies of three recent testimonials to the undersigned by the 4th February, 1950 (quoting G.497 A.J.). Canvassing disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Middlesex Guildhall, S.W.1. 3167

COUNTY OF LINCOLN—PARTS OF
KESTIVEN.ERECTOR OF NORTH HYKEHAM
SECONDARY MODERN SCHOOL.

Applications are invited for the appointment of a CLERK OF WORKS, to supervise the works in connection with the erection of a Secondary Modern School at North Hykeham, near Lincoln. The salary to be offered is £8 to £9 per week inclusive, according to qualifications and experience. Subject to satisfactory service the appointment will be for the duration of the contract.

Applicants should have a practical knowledge of the main building trades, and experience on buildings with reinforced concrete framed structure will be an advantage. Applicants should also have had experience as Clerk of Works.

Forms of application may be obtained from the undersigned, to whom completed forms should be submitted not later than the 31st January, 1950.

J. E. BLOW,

Clerk of the County Council.

County Offices, Skeaford, Lincs.

10th January, 1950.

3217

COUNTY BOROUGH OF BURY.

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

The appointment is subject to the Local Government Superannuation Act, 1937, and to medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two referees, must reach me not later than the 30th January, 1950.

EDWARD S. SMITH,

Town Clerk.

Municipal Offices, Bank Street, Bury.

14th January, 1950.

3199

BOROUGH OF HORNSEY.

APPOINTMENT OF TEMPORARY CLERK OF
WORKS.ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the post of Temporary Clerk of Works, at the salary of £10 10s. per week, to supervise, under the direction of the Borough Engineer and Surveyor, the erection of Flats and Houses to be built in the Borough of Hornsey.

Applications, giving full details of age, experience, qualifications, and the names and addresses of three referees, must be delivered to J. H. Melville Richards, Esq., A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Hornsey Town Hall, not later than Monday, 23rd January, 1950. Canvassing, either directly or indirectly, will disqualify.

H. BEDALE,

Town Clerk.

Town Hall, Crouch End Broadway, N.8.

3109

COUNTY COUNCIL OF NORTHAMPTON.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for posts of ASSISTANT ARCHITECT, A.P.T., Grade V (consolidated salary £520 per annum, rising to £570 per annum) on the permanent staff of the Department. The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications and previous experience, accompanied by recent testimonials, should be forwarded to the County Architect, County Hall, Newcastle-upon-Tyne, not later than 28th January, 1950.

7th January, 1950.

3178

THE RURAL DISTRICT COUNCIL OF
GODSTONE.ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary A.P.T., Grade III, £450 × £15-£495, and travelling allowance according to the National Scale.

Preference will be given to those applicants who have obtained the qualification of the R.I.B.A.

Applications, stating age, qualifications and experience, together with copies of not more than two testimonials, should be delivered immediately.

F. W. WALPOLE,

Clerk.

Council Offices, Oxted, Surrey.

9th January, 1950.

3190

CITY OF GLOUCESTER.

CITY ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of an ASSISTANT ARCHITECT. Salary A.P.T., Grade V (£520-£570 per annum).

Preference will be given to Associate Members of the R.I.B.A., and the appointment is subject to the Local Government Superannuation Act, 1937.

Applications, stating age, whether married or single, training, qualifications, experience, previous appointments and present position, together with copies of recent testimonials, should reach the undersigned not later than Friday, the 3rd February, 1950.

A. MORGAN, L.R.I.B.A.,

City Architect.

Suffolk House, Greffrirs, Gloucester.

24 January, 1950.

3218

DERBYSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments on the technical staff—

(1) SENIOR ASSISTANT (RESEARCH). A.P.T., Grade VII (£635-£710).

Candidates should possess a University Honours Degree in Geology and subsidiary subjects and experience of the practical application of this specialist knowledge to problems of mineral extraction. Previous experience of research work will be an advantage. This vacancy is at Derby.

(2) SENIOR PLANNING ASSISTANT. A.P.T., Grade VI (£595-£660).

Candidates should have or be eligible for Associate Membership of the Town Planning Institute, and should have had training and experience in the work of statutory planning in the local or government service. Experience of the control of development under the Town and Country Planning Act, 1947, would be an advantage. This vacancy is at the County Area Planning Office at Bakewell. A motor car allowance in accordance with the Council's scale is attached to the post.

(3) JUNIOR PLANNING ASSISTANT. A.P.T., Grade II (£420-£465).

Candidates should have taken the Intermediate Examination of the Town Planning Institute or one of the allied professional institutions, or hold a University Degree or Diploma, or may offer specialist knowledge and experience in model making, relief maps and perspective drawing. This vacancy may be at Derby or at the County Area Offices at Chesterfield, Bakewell, or Belper.

These appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, the Council's Conditions of Service and medical examination, and the posts are such as could be undertaken by suitable registered disabled persons. The appointments may be filled at a commencing salary within the range of the grade indicated according to qualification and experience.

Canvassing, either directly or indirectly, will be a disqualification, and candidates should state whether they are, to their knowledge, related to any member of the Council or to any senior official.

Applications, stating age, qualifications and experience, accompanied by one recent testimonial and the names of two persons to whom reference can be made, should reach the undersigned at 84, Bold Lane, Derby, not later than 30th January, 1950.

MAURICE J. HELLIER,

County Planning Officer.

3177

MIDDLESEX COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

JUNIOR PLANNING ASSISTANTS required, on Grades A.P.T., I, II and III (commencing salaries £390, £420 and £450 o.a. respectively, plus London weighting, £20-£30, according to age). Duties will include survey, drafting of maps and general planning work. Experience of town planning desirable, but related experience considered. Established, pensionable, subject to medical examination, prescribed conditions of service. Applications, stating age, experience, two recent testimonials (to the undersigned by 11th February, 1950 (quoting GS26 A.J.)). Canvassing disqualifies.

C. W. RADCLIFFE,

Clerk of the County Council.

Middlesex Guildhall, S.W.1.

3213

BOROUGH OF ILFORD.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.APPOINTMENT OF ARCHITECTURAL
STAFF.

Applications are invited for the following appointments on the staff of the Borough Engineer—

(a) ARCHITECTURAL ASSISTANT (Permanent). Salary in accordance with Grade VII of the A.P.T. Division, viz., £635 × £25-£710 per annum, plus London weighting.

Applicants should be Chartered Architects and Corporate Members of the Royal Institute of British Architects and have a thorough knowledge of architectural works, with practical experience in design and development of public buildings of all types, housing schemes, particularly multi-storey flats, etc., the preparation of specifications, and be capable of supervising and controlling contracts.

The Council is prepared to consider, if necessary, the question of housing accommodation in connection with this appointment.

(b) ARCHITECTURAL ASSISTANT (Temporary). Salary in accordance with Grade V of the A.P.T. Division, viz., £520-£570 per annum, plus London weighting.

Candidates for this appointment should possess approved qualifications and be capable of preparing working drawings in connection with Council flats, etc.

The appointments, which are whole-time (private practice being prohibited), will be subject to one month's notice on either side, to the provisions of the Local Government Superannuation Act, 1937, the National Conditions of Service, and to medical examination.

Forms of application, obtainable from the Borough Engineer, Town Hall, Ilford, should be returned to the undersigned not later than the 28th January, 1950.

K. F. B. NICHOLLS,

Town Clerk.

Town Hall, Ilford, Essex.

January, 1950.

3153

BOROUGH OF GUILDFORD.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the above-mentioned appointment in accordance with the National Scheme of Conditions of Service, Grade III (£456 by £15 to £495). Applicants should have had a good training in design and construction in relation to public buildings and housing schemes, and other factors being equal, preference will be given to those having passed the Intermediate Examination of the R.I.B.A.

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

Applications, stating full particulars as to age, qualifications, experience, together with copies of three recent testimonials, must be delivered to the undersigned not later than Friday, 3rd February, 1950, and should state whether the applicant is related to any member of the Council or a holder of any senior office under the Council.

Canvassing, either directly or indirectly, will disqualify an applicant for the appointment.

HERBERT C. WELER,

Town Clerk.

Municipal Offices, Guildford.

9th January, 1950.

3176

COUNTY BOROUGH OF NORTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

(a) CLERK OF WORKS. A.P.T., IV-V (£480-£570).

(b) ASSISTANT CLERK OF WORKS. A.P.T., III-IV (£450-£525).

(c) ASSISTANT CLERK OF WORKS (£8 per week).

Applications for the above posts, stating age, qualifications and experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving names of two persons to whom reference can be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, Guildhall, Northampton, not later than 27th January, 1950.

Applicants should state clearly the appointment for which application is being made.

Canvassing will disqualify.

The appointments are temporary in the first instance, but may become permanent on satisfactory service being given.

Applicants for appointment (a) should have first-class practical knowledge of the building trade and experience of supervision of major building works in progress. The successful applicant will be required to supervise the erection of houses, flats and shops, and will have Assistant Clerks of Works working under him thereon.

Applicants for appointments (b) and (c) should have a thorough practical knowledge of the building trade and have experience of supervision of works in progress.

C. E. VIVIAN BOWE,

Town Clerk.

3175

BOROUGH OF POOLE.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT (Education Section), A.P.T., Grade I (£405-£450).

The appointment is on the permanent establishment, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications, giving the names of three referees, must be submitted to the undersigned, in an envelope suitably endorsed, not later than Saturday, the 28th January, 1950.

WILSON KENYON,

Town Clerk.

Poole.

3172

COUNTY BOROUGH OF BURNLEY.

BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.

Applications are invited for the appointment of—

(a) SENIOR PLANNING ASSISTANT. Grade VI (£595-£660 per annum).

(b) ARCHITECTURAL ASSISTANT. Grade IV (£480-£525 per annum).

Applicants for appointment (a) should be Associate Members of the Town Planning Institute and the holding of other qualifications will be an advantage. Experience in a similar capacity in a planning office is essential.

Applicants for appointment (b) should have passed the R.I.B.A. Intermediate Examination or its equivalent and have had good general experience in an architectural office.

Conditions of service are those formulated by the National Joint Council, and the appointments are on the established staff and subject to the provisions of the Local Government Superannuation Act, 1937, the successful applicants being required to pass a medical examination. The appointments are terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidates, and any relationship to a member or senior officer of the Council must be clearly stated in the applications.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than 12 noon on Saturday, 4th February, 1950.

C. V. THORNTON,

Town Clerk.

Town Hall, Burnley

January, 1950.

3200

**BOROUGH OF WORTHING.
BOROUGH ENGINEER'S DEPARTMENT.
QUANTITY SURVEYOR.**

Applications are invited for the above appointment on A.P.T., Grade VI (£595-£660 per annum). Applicants should have passed the Final Examination of the Royal Institution of Chartered Surveyors or should hold other equivalent qualifications, and should have good experience in estimating for new works, taking off, abstracting and billing Quantities, and measuring up and settling final accounts.

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 National Conditions of Service, and the successful applicant will be required to pass a medical examination.

The Council will assist in finding housing accommodation for the successful applicant if required.

Applications, stating age, qualifications and experience, and accompanied by copies of two references, should be sent to the Borough Engineer, Town Hall, Worthing, endorsed "Quantity Surveyor," and received by him within 14 days of the publication of this advertisement.

ERNEST G. TOWNSEND, Town Clerk.

Town Hall, Worthing. 3225
11th January, 1950.

**COUNTY BOROUGH OF WALLASEY.
APPOINTMENT OF PLANNING ASSISTANTS.**

Applications are invited for the following appointments:—

(a) PLANNING ASSISTANT. A.P.T., Grade III.

(b) JUNIOR PLANNING ASSISTANT. A.P.T., Grade II.

The appointments are established posts under the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. Application forms may be obtained from the Borough Surveyor, Town Hall, Wallasey, to whom they should be returned not later than the 14th February, 1950.

EMERYS EVANS, Town Clerk.

**COUNTY BOROUGH OF EAST HAM.
HOUSING DEPARTMENT.**

Applications are invited for the following appointment:—

CHIEF TECHNICAL ASSISTANT. Grade VIII (£685-£760 per annum), plus appropriate London weighting. Applicants should be Associate Members of the Royal Institute of British Architects, and have had experience in design of modern housing and areas of housing development. The possession of a town planning qualification will be an advantage.

Full particulars of the duties, terms and conditions of appointment and form of application, which must be returned by noon on Monday, the 6th February, 1950, can be obtained from the undersigned.

H. A. EDWARDS, Town Clerk.

Town Hall, East Ham, E.6. 3206
January, 1950.

Tenders for Contracts

**WREXHAM, POWYS AND MAWDDACH
HOSPITAL MANAGEMENT COMMITTEE.**

TENDERS FOR BUILDING WORKS.
Tenders will be required from time to time for Building Works of Alterations, Extensions, New Buildings, etc. to the various hospitals and hospital properties managed by the above-named Committee, and situated at Barmouth, Chirk, Dolgellau, Llangollen, Mold, Penrynford, Rhydallty, Wrexham and Welshpool.

Building Contractors who wish to be considered, at appropriate times, for an invitation to tender for contemplated works should apply immediately to H. Anthony Clark, F. C. Roberts & Partners, of 41, Regent Street, Wrexham.

Applicants should state whether they wish to

tender for works in any particular or in all of the above-mentioned localities, and whether they wish to be considered for works costing between £1,000 and £5,000, or over £5,000, or both.

Applications must be accompanied by particulars of recent contracts completed, and the name and addresses of Architects and Engineers under whose direction and supervision works have been carried out and to whom reference may be made.

(Sgd.) WILLIAM JONES, Secretary.

Wrexham, Powys and Mawddach Hospital Management Committee. 3173

**ROYAL BURGH OF KIRKCALDY.
NEW MUNICIPAL BUILDINGS.**

KIRKCALDY TOWN COUNCIL invite TENDERS for the following works required for the ERECTION OF NEW MUNICIPAL BUILDINGS AT WEMYSSFIELD, KIRKCALDY, namely:—

1. Steelwork.
2. Excavator, Mason and Brickwork.
3. Carpenter and Joiner.
4. Plumber.
5. Plaster and Terrazzo.
6. Roof Asphalt.
7. Glazier.
8. Painter.
9. Reinforced Concrete Floors.
10. Boiler House Plant, Central Heating, etc.
11. Electric Light and Power Installation.

Applications for Forms of Tender and Schedules of Quantities relative thereto should be made to the undersigned addresses, where Plans and Conditions of Contract will be available for inspection during normal business hours.

Works 1-8: Messrs. James Gentes & Son, Quantity Surveyors, Kirkcaldy address: Central Chambers; Edinburgh address: 18, Hanover Street.

Works 9: Messrs. Blyth & Blyth, M.I.C.E., Chartered Civil Engineers, 135, George Street, Edinburgh, 2.

Works 10-11: Messrs. Beggs, Peebles & Ross, Consulting Engineers, 27, Rutland Square, Edinburgh.

Plans only may be inspected at the office of the Architects, Messrs. Carr & Howard, F.R.I.B.A., 110, Old Brompton Road, London, S.W.7. Forms of Tender and Schedules will be issued to applicants as and when available. Sealed Tenders, in special envelopes, to be marked "Municipal Buildings—Tender for Work," are to be delivered to the undersigned not later than the date indicated in the Instructions to Tenderers. The date for the lodging of Tenders will be approximately 4 weeks from the date on which tenders are available.

CHARLES D. CHAPMAN, Town Clerk.

Stanley Park, Kirkcaldy. 3149
5th January, 1950.

Architectural Appointments Vacant

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

ARCHITECTURAL ASSISTANTS required immediately for varied practice; experience in factory work an advantage; salaries from £400-£450, graded according to experience and ability. Box 2904.

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS with Industrial and Housing experience, required in North-West London office; Juniors up to Intermediate standard, salary £250-£400; Seniors over Intermediate standard, salary £400-£700, according to qualifications and experience. Apply Sydney Greenwood, A.R.I.B.A., 33, Bunns Lane, Mill Hill, N.W.7. 3065

ARCHITECT'S EXPERIENCED ASSISTANT, for busy Country Practice in small town near coast, North Midlands; salary £500 upwards (with bonus), according to qualifications and ability; must be experienced, properly trained, able to carry out all duties; car driver preferred; housing experience and quantity surveying an advantage. Box 3068.

ESTABLISHED Midland Architect (A.R.I.B.A.) requires part-time help, F.A.R.I.B.A., on competition work; must be very good draughtsman and designer, preferably competition winner; good remuneration and prospects for the right person. Reply immediately, in confidence, giving details and enclosing two projects (returnable), Box 3071.

JUNIOR ASSISTANTS required in Company Architects' Office in London; must be accurate draughtsmen, with a good knowledge of construction. Applicants should state age, training, experience, and salary required, to Box 3006.

WANTED, in January, ARCHITECT'S ASSISTANT; interesting work and considerable responsibility; accommodation available; salary according to qualifications and experience. Gotch, Saunders & Surridge, 61, High Street, Kettering. Telephone Kettering 3165/6. 3040

ARCHITECT'S ASSISTANT required for permanent position, London office; competent preparation of working drawings for large schemes; open to Lady Assistant; good salary and prospects, those desiring change. Apply W. Braxton Sinclair & Partners, 45, Whitehall, S.W.1. 3014

ARCHITECTURAL ASSISTANT required in N.E. London; experienced in war damage and conversions of both domestic/commercial nature, to include flats, offices and industrial buildings; interest in contemporary design. Apply Box 3026.

ASSISTANT ARCHITECT. APPLICATIONS are invited for a fully qualified Assistant Architect, with experience in Urban and Rural District Council housing and industrial work.

Salary offered £750/£800 per annum, subject to qualifications and experience. Candidates about to take the Final R.I.B.A. Examination will be considered.

Full details in writing to Husband & Company, Chartered Civil Engineers and Architect 388, Glossop Road, Sheffield, 10. 3027

ASSISTANT ARCHITECT required by a well-known firm of Contractors in a rapidly expanding world-wide business; great scope for originality; permanency and good prospects for the right man; commencing salary £800; applicants must be Associate Members of the Royal Institute of British Architects. Write, stating age, experience, etc., to Box 3031.

ARCHITECTURAL ASSISTANTS, R.I.B.A., required in progressive modern office to deal with interesting industrial and commercial works at home and overseas; excellent opportunities for suitable applicants, with facilities for further studies, and widening of experience; salaries in accordance with R.I.B.A. scale. Applications to: Company Architect, Dunlop Rubber Co., Ltd., Birmingham, 24. 3038

CONTRACTS MANAGER required by well-known Architectural Woodwork and Furniture Managers, to organise and build up Contract Department; experience estimating and control essential; excellent opportunity for man of administrative ability. Box 3121.

ARCHITECTS and Surveyor's ASSISTANTS required by important Institution in London; applicants should be Associates of R.I.B.A., age 30-35, with good general experience, and capable of making building surveys; salary up to £600, according to age and experience. Write only to Box G721, c/o Streets, 110, Old Broad Street, E.C.2. 3120

ARCHITECT requires ASSISTANT; passed Intermediate, with office experience; must be speedy draughtsman, with flair for good contemporary design; good prospects; salary up to £500, according to experience. Write Sidwell, A.R.I.B.A., 27, Union Street, Coventry. 3121

WANTED, in a London Architect's office, capable JUNIOR ASSISTANT. Please send full details of capabilities to Box 3159.

reliable

LIFTS
by

over 40 years' experience in the erection and maintenance of electric passenger, goods and service lifts.

PORN & DUNWOODY LTD

UNION WORKS, BEAR GARDENS, LONDON, S.E.1.

ASSISTANT ARCHITECTS required for work of great variety; applicants should be qualified, preferably school trained, with office experience, and able to assume responsibility for all stages of work. Write, stating age, experience, and salary required, to T. P. Bennett & Son, 43, Bloomsbury Square, W.C.1. 3119

SENIOR ARCHITECTURAL ASSISTANT required immediately; must be capable of handling jobs to completion; experience in school buildings an advantage, but not essential; salary up to £700 p.a., according to ability and experience; Chartered Architect preferred. Apply to J. Kennedy Hawkes, A.R.I.B.A. (Escher 1142). 3091

BOOTS PURE DRUG CO., LTD., NOTTINGHAM.

ARCHITECTURAL ASSISTANT required for the permanent staff of this Department. Progressive appointment for the right man. Work of a very varied character, including Factories, Laboratories, Retail Premises, Farms, Housing, etc., in all parts of the British Isles.

The Company operates a 5-day week and a pension scheme and the successful applicant will be required to pass a medical examination.

Write, stating age, qualifications, training, details of experience, and salary required, with a copy of two recent testimonials, to:

CHIEF ARCHITECT,
Boots Pure Drug Co., Ltd.,
Station Street, Nottingham. 3096

WEST RIDING Architects require **ASSISTANT**, for busy general practice; good prospects for reliable man. Box 3129.

ARCHITECTURAL ASSISTANT required in private office; Westminster area; good draughtsman essential, with constructional and designing ability; salary by arrangement. Box 3201.

ARCHITECTURAL ASSISTANT required of Intermediate R.I.B.A. standard and with some previous experience in an Architect's office; salary according to ability. Write, stating age and experience to Staff Officer, Handley Page, Ltd., Cricklewood, N.W.2. 3099

CAPABLE ARCHITECTURAL ASSISTANT required for progressive modern practice; please write, giving full details of training, experience, qualifications, and age; commencing salary £450 per annum. Edward Narracott, A.R.I.B.A., 48, Torwood Street, Torquay. 3157

An opportunity occurs in a London Architect's office for one capable **SENIOR ASSISTANT**. Please send full details of capabilities to Box 3158.

LAVENDER, TWENTYMAN & PERCY, F.A.R.I.B.A., of 2, Waterloo Road, Wolverhampton, require a **SENIOR ASSISTANT**; interested in good quality building and contemporary design; salary according to experience. 3161

E. MAY, Architect and Town Planner, formerly of Frankfurt-on-Main, requires for the beginning of April **ONE or TWO ARCHITECTURAL ASSISTANTS**, with practical experience in Architect's offices; applicants must be healthy (doctor's certificate required) talented young men, preferably unattached.

Further required experienced **DRAUGHTSMAN**. Applications to state age and to include samples of work, references, photograph, and hand written summary of qualifications and previous experience.

Starting salary for Architectural Assistants £50 per month or more, according to ability. Share in profits from second year onwards.

Draughtsman's starting salary £40. Passage out will be paid and cost of postage for applications refunded.

Applications by airmail to: E. May, P.O. Box 1010, Nairobi, Kenya Colony. 3164

ARCHITECTURAL ASSISTANT wanted in Southampton; minimum standard R.I.B.A. Inter. Full particulars, salary required, etc., to Gutteridge & Gutteridge, 45, Westwood Road, Southampton. 3166

SENIOR and Intermediate ARCHITECTURAL ASSISTANTS required; preferably with experience of commercial and city practice; interesting and varied work; 5-day week; good salaries. Please apply in writing, Lewis Solomon & Son, 21, Moorsbury Way, W.C.1. 3169

ARCHITECTURAL ASSISTANT required for General Practice surveys, working drawings and specifications. Write, stating age, previous experience and salary required, Henry C. Smart & Partners, L.R.I.B.A., 120, Moorgate, E.C.2. 2981

ARCHITECTURAL ASSISTANT, Intermediate or higher standard; London office; housing, schools and industrial experience; salary by arrangement. Write, with full particulars, to Box 3185.

ARCHITECT'S ASSISTANT required for permanent and pensionable appointment in London office of commercial company's Chief Architect; applicants should be neat draughtsmen, and capable of preparing sketch plans, working drawings, and details under supervision; position offers good scope for advancement. Write full details of age, training, experience, and commencing salary required, to Box 3168.

ARCHITECTS (A.R.I.B.A.) and ARCHITECTURAL ASSISTANTS, preferably with experience of power station buildings or similar work, required immediately; salary according to experience. Apply, with references, to Sir William Halcrow & Partners, M.M.I.C.E., Consulting Engineers, Alliance House, Caxton Street, Westminster, S.W.1. 3192

JUNIOR ARCHITECTURAL DRAUGHTSMAN required, of a standard approaching Inter. R.I.B.A. Examination, to work under guidance and supervision in Architects' and Surveyors' office in Croydon area. Write, stating age, experience, and approximate salary required, to Box 3198

ARCHITECT'S ASSISTANT required in Worcester; must be experienced in all types of buildings; smart and accurate draughtsman, and fully capable of preparing working drawings and details. Reply, stating previous experience, salary required, age, and qualifications, if any, to Fredk. E. S. Storer, A.R.I.B.A., 24, Foregate Street, Worcester. 3201

ASSISTANT ARCHITECT required in Newcastle-upon-Tyne office; good position for first-class enthusiastic man, capable of working drawings and detailing of quality buildings; 5-day week; salary according to qualifications and experience. Box 3202.

ARCHITECTURAL ASSISTANTS.—Interest in interior design of large stores and of exhibitions essential; must be able to take both design and constructional responsibility; salary from £500 to £800 p.a. Apply in writing to Misha Black, Design Research Unit, 37, Park Street, W.1. 3215

ARCHITECTURAL ASSISTANT required in Chancery Lane office; good draughtsman essential, working details, surveys and specifications; good prospects for keen man. Details of salary, age, experience, to Box 3221.

BIRMINGHAM office, engaged in varied programme of contemporary work, have vacancy for an **ASSISTANT** of Intermediate standard or above. Apply in writing to John B. Surman & Partner, 16, Harborne Road, Edgbaston. 3224

Other Appointments Vacant

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

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

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

ESTIMATORS required; used to Architectural Metalwork. Apply personally or by letter to Morris Singer Co., Ferry Lane Works, Forest Road, Walthamstow, E.17. 2142

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

CONTRACTS MANAGER required by well-known Specialist Building Firm to organise and build up Contract Department; experience estimating and control essential; excellent opportunity for man of technical and administrative ability. Apply in first instance to Box 2775.

QUANTITY SURVEYOR required for busy Country Practice in small town, North-East Midlands; salary £500 upwards (with bonus), according to ability; opportunity for keen man. Box 3069.

FULLY qualified CHARTERED SURVEYOR for preparation of estimates and final measuring in connection with Modern Schools Programme; previous experience with Constructional or Reinforced Concrete Engineering an advantage; long term programme. Reply to Personnel Manager, Hills (West Bromwich), Ltd., Albion Road, West Bromwich, stating age, experience, and salary required. 3087

SANITARY ENGINEER required by London Architects; must be fully experienced all branches, thorough knowledge of by-laws, good draughtsman, and capable of undertaking all classes of work. Write, giving full details of qualifications, experience, age, and salary required, and when available. Box 3120.

ASSISTANT ESTIMATOR for Fencing Department required; experience of Building Trade desirable; state age, experience, and salary required; no Saturdays. All replies treated in strictest confidence, to Secretary, A. J. Binns, Ltd., Harvest Works, 99/107, St. Pauls Road, London, N.1. 3133

SETTER OUT wanted for Architectural Metalwork; good wages and ideal working conditions. Apply The Morris Singer Co., Ltd., Ferry Lane, Forest Road, Walthamstow, E.17. 3143

CAPABLE ARCHITECTURAL DRAUGHTSMAN required immediately; Eastern Counties; permanency; salary according to experience; flat available. Full particulars to Box 3150.

ARCON, Chartered Architects, have vacancies for **SENIOR QUALIFIED DRAUGHTSMEN**, with office experience, at £500-£550 p.a., and for **Intermediate standard DRAUGHTSMEN**, with office experience, £350-£400. Apply to No. 39, Eaton Square, S.W.1. SLOane 4226. 3152

WEST COUNTRY.—Private Company, manufacturing high-class cast-stone, requires **ASSISTANT** to Manager of Technical and Architectural Advisory Department; the duties will include translation of architects' drawings to working details, direction of manufacturing department and assistance in estimating; excellent prospects for capable man prepared to specialise; state professional qualifications and experience. Box 3182.

DESIGNER/DRAUGHTSMAN required for architectural joinery and interior decorative work; North-West London area. Details, etc., to Box 3184.

DESIGNER/DRAUGHTSMAN required for Architectural Woodwork, modern and period furniture and furnishing schemes; must have constructional knowledge and good perspective draughtsmanship. Reply, stating experience and salary required, Box 3146.

ARCHITECTURAL DRAUGHTSMAN/DESIGNER wanted, with long experience of Architectural Metalwork; must have sound knowledge of detailing and construction; only top grade applications will be considered. Apply, giving résumé of experience, to Managing Director, Morris Singer Co., Ltd., 159, John Street, London, E.C.1. 3186

REQUIRED.—**JUNIOR DRAUGHTSMAN** (age 20/25), with general engineering drawing office experience for Buildings and Services Division dealing with Building Layouts, Alterations, Heating, Ventilating, Service Pipework, etc.; salary in accordance with experience. Write, giving age and full particulars, to Staff Division, The Metal Box Co., Ltd., The Langham, Portland Place, W.1, quoting reference BS/10. 3203

BUILDER'S JUNIOR COST CLERK required by Humphreys & Glasgow, Ltd., 22, Carlisle Place, S.W.1; age 22/24; pension scheme and 5-day week. Please apply in writing, giving details of age, experience, and salary required. 3220

Architectural Appointments Wanted

A.R.I.B.A. (43), single, with 5 years' salaried and 10 years' private practice experience, mostly on domestic, church and agricultural work, seeks position in office of London Architects with country connections, or alternatively will look after their country work under their name; small practice of own in Home Counties; competent to make initial survey, report, sketch and working drawings, specification, supervise work, and settle final accounts; will travel anywhere; clean driving licence 26 years, but no car at present. Box 3124.

YOUNG Lady, with 5 years' practical experience in Architect's office, requires position as **JUNIOR ASSISTANT**; in Devonshire, Torquay or Exeter area preferred; Inter. R.I.B.A. taken last November. Box 444.

A.R.I.B.A. desires change; experience site supervision, working drawings, surveys, general office routine; min. salary £675 p.a.; West End or City. Write Box 448.

YOUNG Lady, Inter. standard, requires position; area Portsmouth or Chichester. Box 447.

ARCHITECTURAL ASSISTANT, with 25 years' of wide and varied experience, with special knowledge of theatres, exhibitions and hotels, desires position with progressive private office or Local Authorities in London. Box 451.

ASSOCIATE (age 29), University trained, with general experience, desires post in South-Western Counties. Box 450.

ARCHITECTURAL ASSISTANT (21, female), with R.I.B.A. Intermediate, requires post in Architect's office in London area. Box 452.

SENIOR ARCHITECTURAL AND SURVEYING ASSISTANT desires change, Birmingham; long and thorough all-round experience, including housing, industrial, commercial; responsible and fully competent all duties. Box 454.

FINAL R.I.B.A. seeks responsible position in small general practice in London area; experience in design, working drawings, specifications and supervision of Bungalows, Houses, Flats, Shops, Factories and Garages, etc. Write Box 453.

CHARTERED ARCHITECT, having wide experience in England and overseas, desires responsible appointment. Room 32, 4, Inverness Terrace, W.2. 449

Services Offered

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

MANUFACTURERS of exclusive hand-made Lampshades; architects' contracts carried out. J. & M. Beagley, 51, Great Ormond Street, London, W.C.1. CHANCERY 8965. 2397

ARCHITECTURAL MODELS and Dioramas. Edward J. Ashenden, A.R.C.A., 15, Chenil Studios, 183, Kings Road, S.W.3. Tel.: Flax 6105. 2566

FRENCH POLISHING CONTRACTORS able to undertake work of any description; building work a speciality. J. Taylor, 6, Edwards Place, Korbela Street, E.2. 3114

CHARTERED ARCHITECT (A.R.I.B.A.) offers part-time assistance at own London office; all-round architectural experience, exhibitions and surveys. Box 3136. 2772

FREELANCE Surveyor offers Services to Architects requiring accurate surveys of land and buildings, levelling, contouring, etc.; own car and complete equipment. 2772

A.R.I.B.A. requires part-time work for four days a week in the Manchester area. Box 3179. 3193

COMPLETE Full-time Architectural Assistance offered by two competent Seniors (30); own office and car. S. C. Hahn & R. D. Edwards, 5, Station Parade, Elmers End, Beckenham, Kent. Tel. BEC. 1277. 3193

SPARE-TIME Work undertaken by Architect in preparation of surveys, designs, working drawings, etc.; own car; West England area. Box 3208. 3193

ASSISTANT seeks position to work directly under Principal; Articled pre-war; post-war experience covering factories, housing, estate layout, licensed premises, store and exhibition work; surveys, design and working drawings, site supervision, correspondence, accounts, etc. Box 3211. 3193

ARCHITECTURAL ASSISTANT (33), Scot. with sound technical and administrative experience, energetic and of pleasant personality, at present Senior Assistant with leading London firm, seeks responsible and progressive post in which initiative and drive are required; Partnerships considered; salary by arrangement, min. £900 p.a. Box 3214. 3193

For Sale

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

SECONDHAND STEEL TUBULAR SCAFFOLDING, PULL LOGS and NEW ALUMINIUM TUBULAR SCAFFOLDING, complete with FITTINGS. Can be used for Scaffolding, Cow Pens, Fencing, Railings, Grand Stands, Sports Grounds, Jacking and the like. **FENCING STAKES, TIMBER and ASBESTOS HUTS, LIMBER HUTS, NISSEN HUTS and other HUTS, STEEL BUILDINGS, TARPULINS** (all types, light and heavy), **SCAFFOLD BOARDS, SCAFFOLD POLES, DECORATORS' STEPS and TRESTLES. PAINT** (Hard Gloss and Undercoat), all shades. **WIRE ROPE**, 1 in., on Drums of 6 cwt. **KIMOLO BOARD**, flat and corrugated. **ASBESTOS. PLASTERBOARD. BEDSTRADES**, divan type, folding type, hospital type. **IRON AND STEEL RODS, R.S.J.s, Angle Iron, bars—all sizes. ALUMINIUM SHEETS**, flat and corrugated. **TUBING**, all sizes from 1 in. to 2 in. **CANTEEN TABLES and FORMS. CHAIN LINK FENCING, TRUSSES, CARPETS. DONKEY COATS. OILSKIN COATS and SUITS. DUST SHEETS**, new unbleached calico. **ARMY BLANKETS. MATTRESSES. BOILER SUITS. PROTECTIVE CLOTHING** of all kinds. Write for Price Lists to NORDA (Gt. Britain), Ltd., 162-166, Broadway, Southall, Middlesex. Telephone: Southall 3755 and 3227/8. Grams: "NORDA," Southall. 3086

TO BE CLEARED OWING TO REMOVAL TO NEW PREMISES.

500 POLES. 2 CONCRETE MIXERS. 3 LORRIES. 50 tons Wire. 300 tons IRON and STEEL FLATS, various sizes. 100 tons SHIPS' PLATE. 3 HUTS. 500 tons RODS, 3/16 in. to 2 in. 500 DRAIN PIPES. 50,000 ft. TUBING, various sizes. All lying at our Hayes Depot. For further details apply to NORDA (Gt. Britain), Ltd., 162-166, Broadway, Southall, Middlesex. Telephone: Southall 3755 and 3227/8. Grams: "NORDA," Southall. 3084

WALNUT Panelling from room 23 ft. by 18 ft. by 10½ ft., with one doorway; and one 12 ft. by 10½ ft. window; lying Surrey; offers invited. Box 3209. 3193

FOR SALE.—Four Bays Interlocking Tile Racks; new and unused. Also 6,000 C.I. Interlocking Pallets, single lock; unused. Box 3197. 3193

Miscellaneous

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

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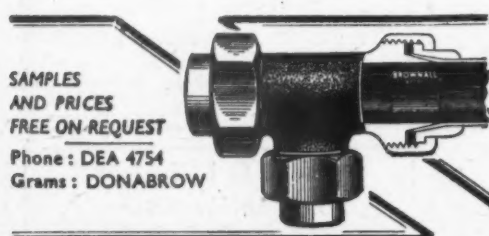
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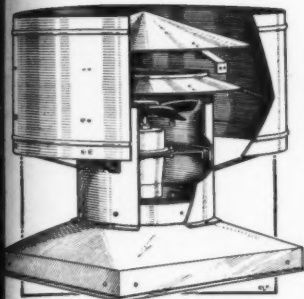
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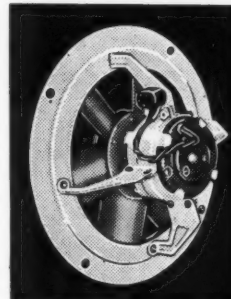
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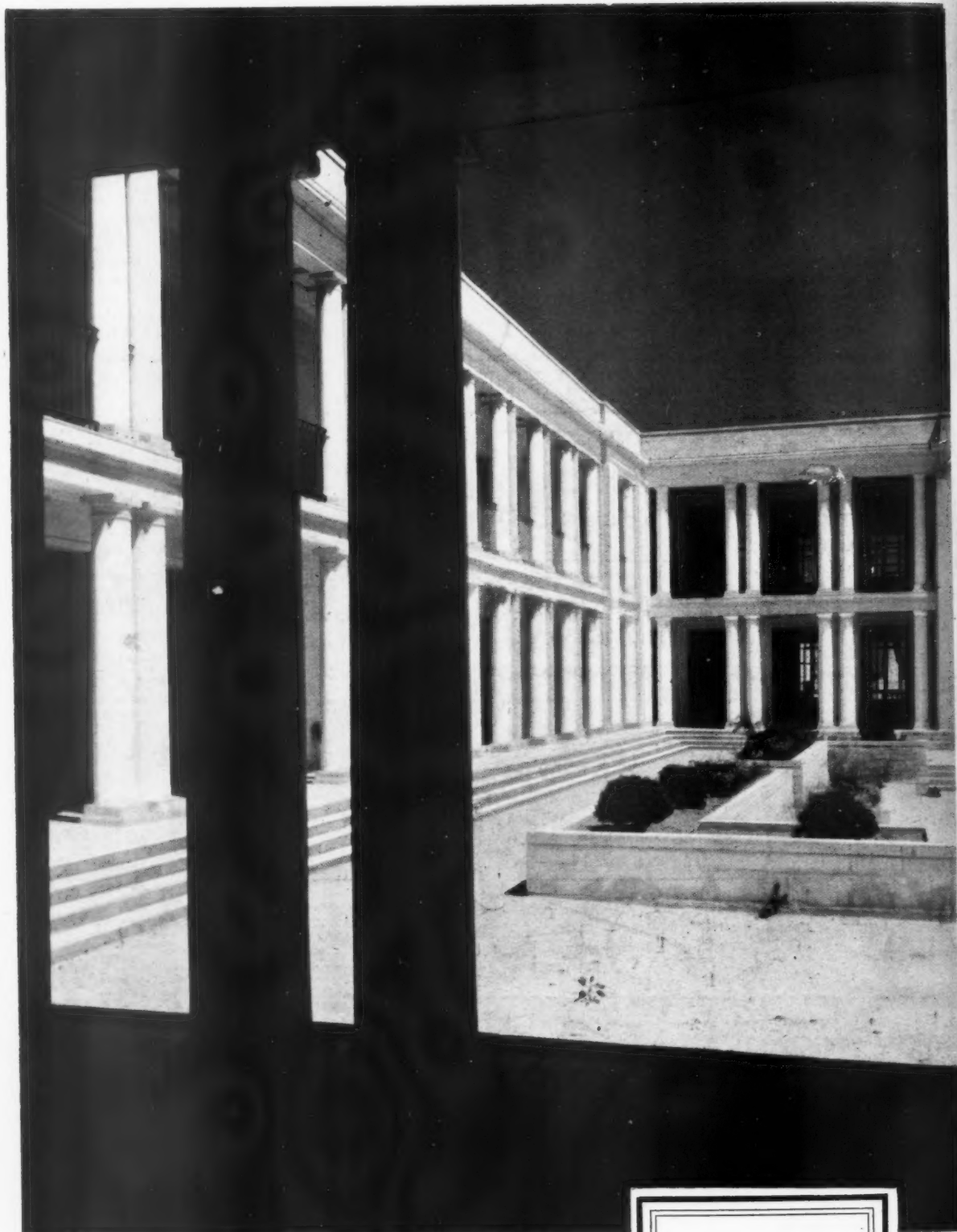
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