

standard

contents

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

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Wanted Vacant and

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1. Sloane 8266 **IHVE** Institution of Heating and Ventilating Engineers. 49, Cadogan Square. Sloane 1601/3158

IIBDID Incorporated Institute of British Decorators and Interior Designers

100 Park Street, Grosvenor Square, W.I.
Institute of Landscape Architects. 12, Gower Street, W.C.1.
Institute of Arbitrators. Hastings House, 10, Norfolk Street, Mayfair 7086 ILA I of Arb Museum 1783

Strand W.C.2. Temple Bar 4071 IOB Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197 Institute of Builders. 48, Bedford Square, W.C.I.
Institute of Quantity Surveyors, 98, Gloucester Place, W.1.

Welbeck 1859
Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851
Institute of Registered Architects. 47, Victoria Street, S.W.1.
Institute of Structural Engineers. 11, Upper Belgrave Street, S.W.1.

Lead Development Association. Eagle House, Jermyn Street, S.W.1.

Whitehall 7264/4175 IQS IR IRA

ISE LDA

London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891 Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1.
Whitehall 7264/4175 LMBA LSPC

MAFF Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1 Trafalgar 7711

MARS

Modern Architectural Research Group (English Branch of CIAM).

Trafalgar 7711

Secretary:

Welbeck 4713

MOE

Ministry of Education. Curzon Street House, Curzon Street, W.1.

MoHLG

MoHLG

Ministry of Health. 23, Savile Row, W.1.

MoHLG

MOS

MOS

Ministry of Labour and National Service. 8, St. James' Square, S.W.1.

Moministry of Supply. Shell Mex House, W.C.2

MoS

MoS

Ministry of Supply. Shell Mex House, Berkeley Square, S.W.1.

MoW

Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.

NAMMC

National Asphalte Mine Owners and Manufacturers Council.

94/98, Petty France, S.W.1.

Abbey 1010

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National Association of Shopfitters. 9, Victoria Street, S.W.1.

National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1.

Welbeck 4713

Mayfair 9400

Regent 8411

Whitehall 4200

Gerrard 6933

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Abbey 1010

National Association of Shopfitters. 9, Victoria Street, S.W.1.

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Gerrard 6933

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Abbey 1011

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NFBTE

National Federation of Building Trades Employers. 82, New Cavendish Street,

NFBTE National Federation of Building Trades Employers. 82, New Cavendish Street W.1. Langham 4041/ Langham 4041/4054

NFBTO National Federation of Building Trades Operatives. Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4
National Federation of Housing Societies 12, Suffolk St., S.W.1. Whitehall 10
National House Builders Registration Council. 82, New Cavendish Street, W.1. Macaulay 4451 Whitehall 1693 NFHS

NHBRC Langham 4341 Molesey 1380

NPL NSAS National Physical Laboratory. Head Office, Teddington. National Smoke Abatement Society. Palace Chambers, Bridge Street, S.W.1. Trafalgar 6838 NT

National Trust for Places of Historic Interest or Natural Beauty.

42, Queen Anne's Gate, S.W.1.

Political and Economic Planning.
Reinforced Concrete Association.

94, Petty France, S.W.1. Whitehall 0211 PEP Whitehall 7245 Abbey 4504

Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Fountainbridge 7631 RIAS

Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721
Royal Institution of Chartered Surveyors: 12, Great George St., S.W.1.
Whitehall 5322/9242 RIBA RICS

Royal Fine Art Commission. 5, Old Palace Yard, S.W.1.
Royal Society. Burlington House, Piccadilly, W.1.
Royal Society of Arts. 6, John Adam Street, W.C.2.
Royal Society of Health. 90, Buckingham Palace Road, S.W.1.
Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. RFAC Whitehall 3935 RS RSA Regent 3335 Trafalgar 2366 Sloane 5134

RSH Wimbledon 5101 **SBPM** Society of British Paint Manufacturers. Grosvenor Gardens House,

Grosvenor Gardens, S.W.1. Victoria 2186
Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244
School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. SE **SFMA** Mansion House 3921

SIA Society of Industrial Artists. 7, Woburn Square, London, W.C.1. Langham 1984/5 SIA SNHTPC

Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616
Scottish National Housing. Town Planning Council.
Hon. Sec., Robert Pollock, Town Clerk, Rutherglen. Scottish National Housing. SPAB

Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1. Holborn 2646 **TCPA**

Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.
Temple Bar 5006 TDA City 4771 TPI Victoria 8815

Timber Development Association. 21, College Hill, E.C.4. Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 75, Cannon Street, E.C.4. War Damage Commission. 6, Carlton House Terrace, S.W.1. TTF City 5040 Whitehall 4341 WDC Zinc Development Association. 34, Berkeley Square, W.1. Grosvenor 6636



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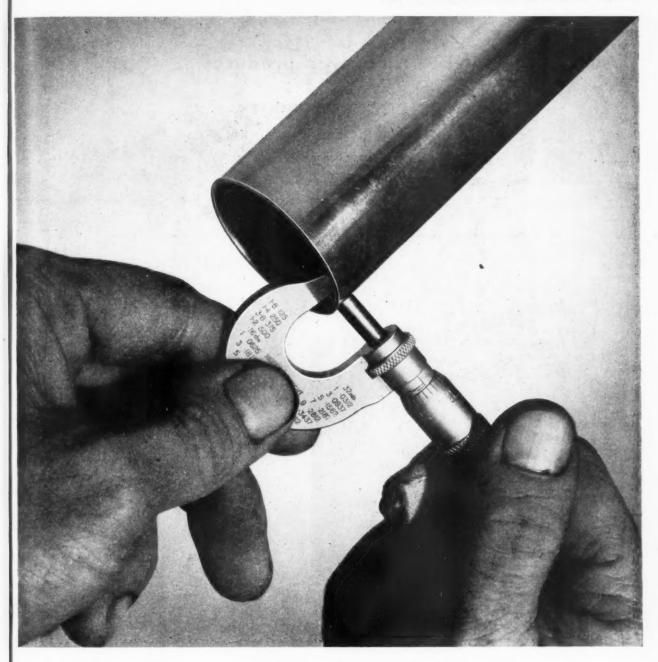
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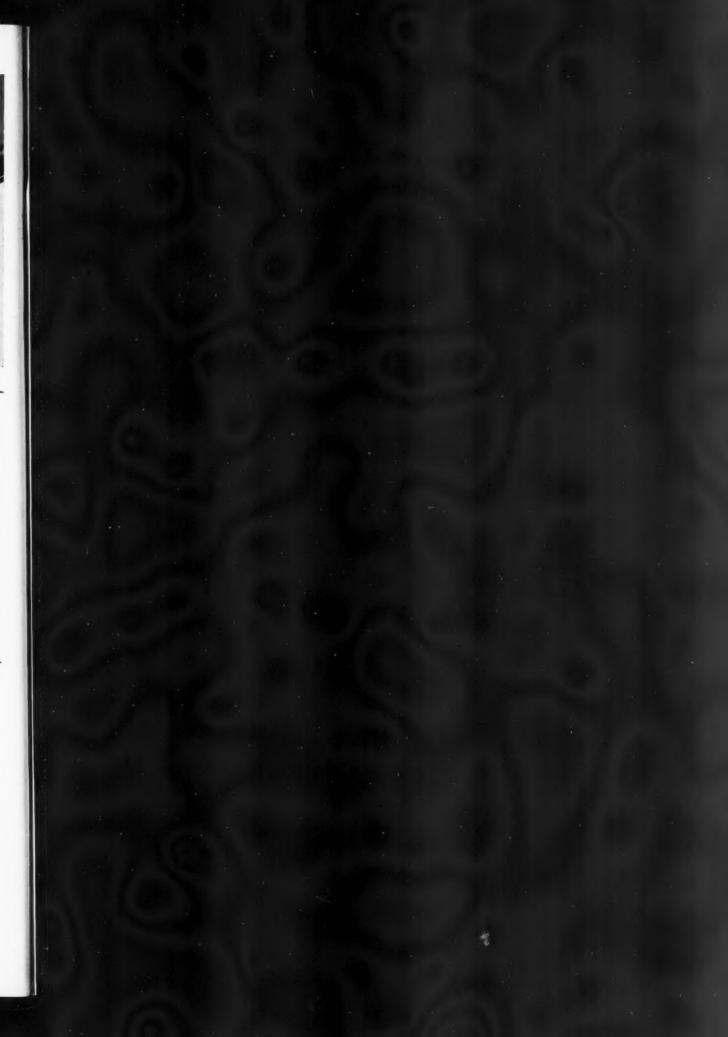
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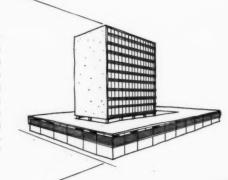


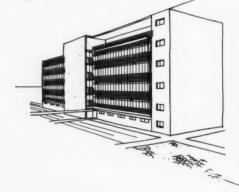
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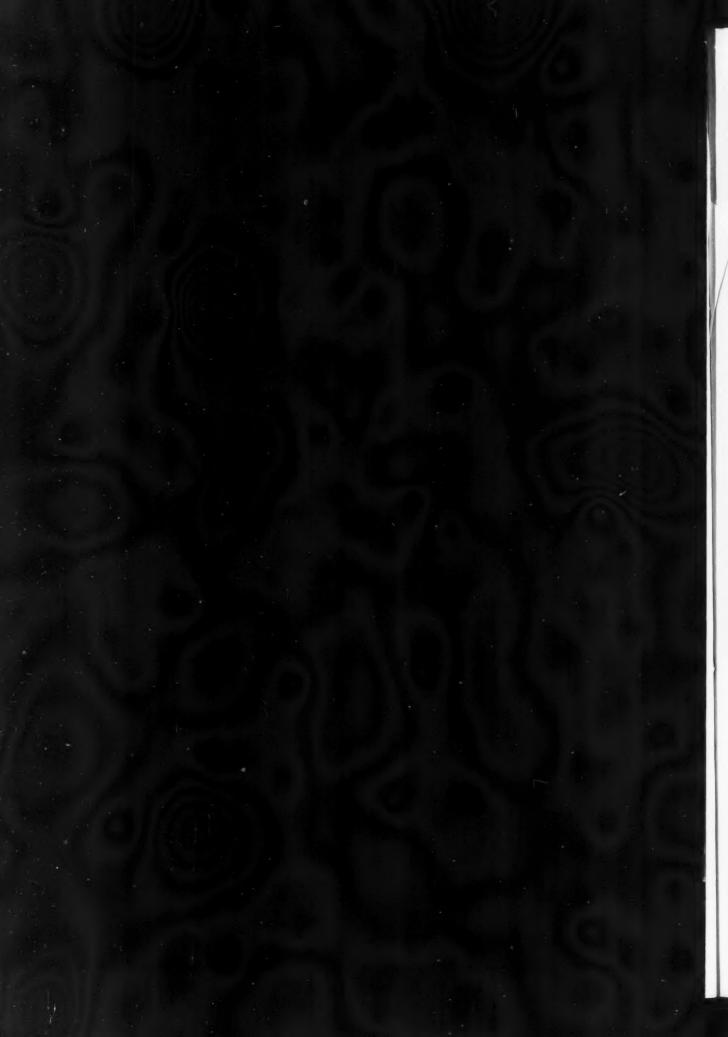
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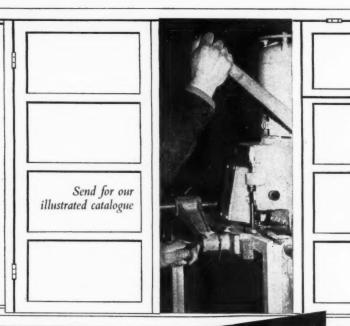


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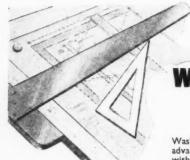
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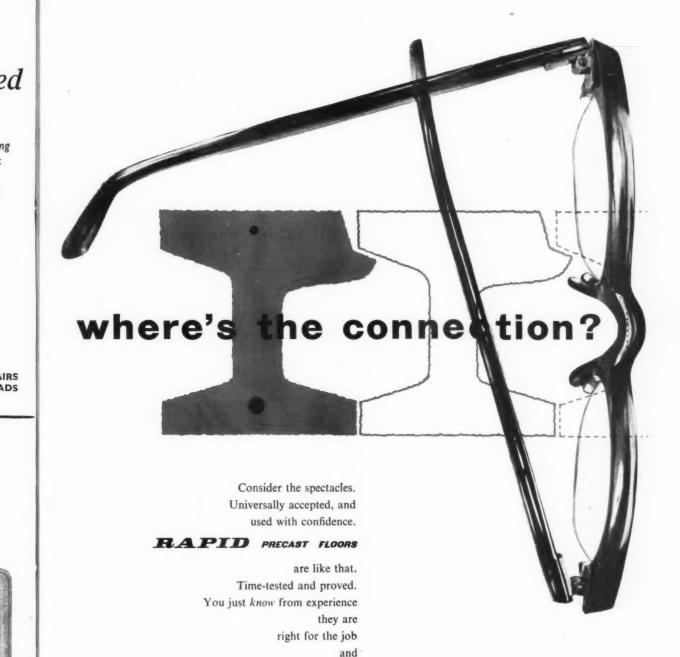
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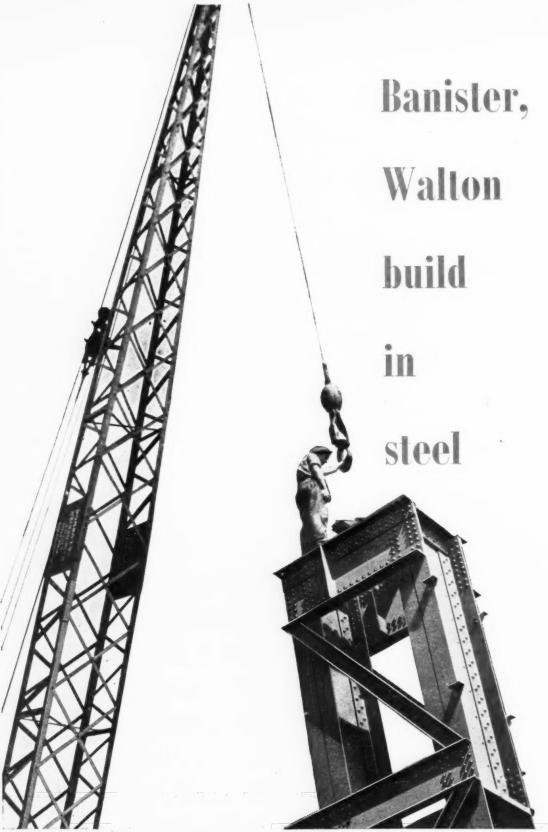




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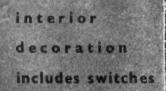


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They are silent in operation, yet have positive action; quality built; superbly styled. The units shown—switch and plate combined—have 2½" centres, are simple to install, and accommodate either one or two gangs covering any variation of control—l-way, 2-way, intermediate or bell push

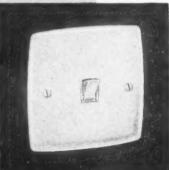


PLATE & SWITCH assemblies

made by the House of



Write for leaflet LA.1973 to:

Simplex Electric Co Ltd Oldbury Birmingham & Branches

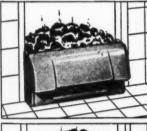
A TO COMPANY



The No. 50 LOWBURN

continuous burning fire with boiler flue set

Choice of two detachable extension pieces



I. Standard. With extension piece down, the fire burns more efficiently and with less trouble than any ordinary open fire.

With extension piece up, the fire will stay alight for ten hours or more. It can be left to burn unattended and no live fuel can possibly fall out on to the hearth.



Trivet. If desired the combined hook-on trivet and extension piece, as illustrated, can be supplied instead of the standard fitment.

The combined hook-on trivet and extension piece is shown in position for overnight burning.

If the boiler is not used to provide domestic hot water, 45 sq. ft. of radiation surface (including unlagged piping) can be heated.

Hot Water System. The recommended size of cylinder is 30 gallons (direct or indirect).

The No. 25 Lowburn, a continuous burning fire without boiler, is also available. For further information about the No. 50 or 25 Lowburn Fires, write to the Housing Division of:

NOTES:

2 inches lower than average continuous burning fire of this type—and very pleasing to the eye. Low costs—to buy, to install, to run.

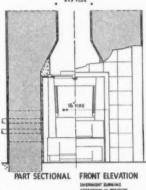
The No. 50 Lowburn Fire is an approved appliance. It burns for 10 hours without attention on all recommended fuels, including coke.

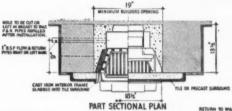
INSTALLATION DETAILS

The difference the low front makes

The maximum radiant heat is directed at the lowest possible level.

It is economical because a few lumps of fuel—not a whole scuttle full—are enough to give a cheerful blaze.





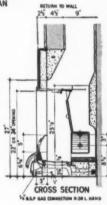
SPECIFICATION:

Vitreous enamel cast iron front with extension for overnight burning. Firebrick lined fire box, removable bottom grate and adjustable air inlet in fire front.

Wrought welded or copper boiler with I in. side tappings right or left hand, and cast iron self-contained boiler flue and damper. Operating tool and mild steel ashpan. With or without gas ignition burner.

The unit can be supplied prepared for, but without boiler.

Colours. — Cream Mottle or Black, Alisheen Black, Bramble, Bronze or Copper.



Gas Ignition Burner Connections: $\frac{1}{4}$ in. B.S.P. on either hand. Fuel Consumption:

Average figures are :—
Winter Conditions
Spring and Autumn to I cwt. per week
Minimum or overnight rate to 2 lb. per hour

Space Heating Capacity: Full heating up to 1,500 cu. ft.

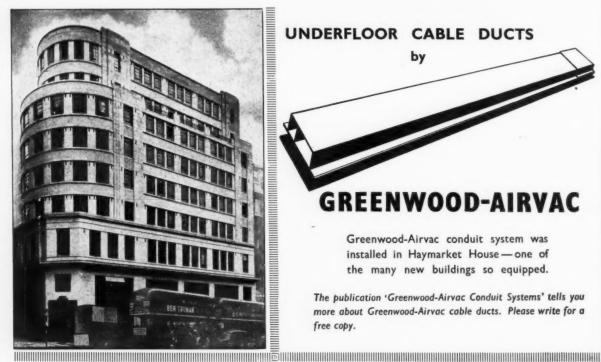
Boiler Output: Maintainable maximum 9,000 B.Th.U. per hour. Provided the system is compact the boiler can heat a towel rail in addition to supplying domestic hot water.

ALLIED IRONFOUNDERS LTD

Makers of cookers, boilers, fires and baths

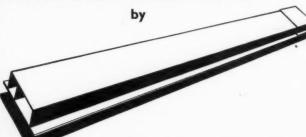
28 Brook Street, London, W.1.





HAYMARKET HOUSE . HAYMARKET . LONDON . S.W.I Architects: E. A. Stone, Toms & Partners, London, W. I.
Contractors: Geo. Wimpey & Co., Ltd., London, W. 6.
Electrical Contractors: Berkeley Electrical Engineering Co., Ltd.,
London, S.W. I.

UNDERFLOOR CABLE DUCTS



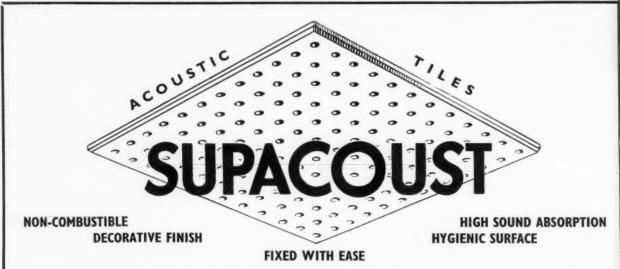
GREENWOOD-AIRVAC

Greenwood-Airvac conduit system was installed in Haymarket House - one of the many new buildings so equipped.

The publication 'Greenwood-Airvac Conduit Systems' tells you more about Greenwood-Airvac cable ducts. Please write for a free copy.

GREENWOOD'S AND AIRVAC VENTILATING CO. BEACON HOUSE . KINGSWAY . LONDON . W.C.2. CHANCERY 8135 (4 lines) AIRVAC-LONDON

 $30'' \times 15'' \times \frac{5}{4}''$



"SUPACOUST" Tiles are manufactured from "Superplaster" (a fine Gypsum plaster) admixed with "Superite", the Plaster Hardener.

> STOCK SIZES. $24'' \times 24'' \times \frac{5}{8}''$ $24'' \times 12'' \times \frac{5''}{8}$ (Agents and Stockists wanted in U.K.)

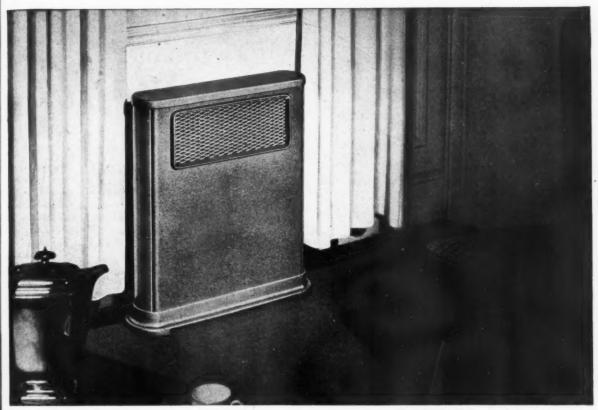
> > LET US QUOTE FOR YOUR NEXT PROJECT.

PETRADENE LIMITED

23/39 BENDON VALLEY, WANDSWORTH, LONDON, S.W.18.

Telephone: BATtersea 2497/8/9

Here's a handsome way to solve the heating problem **MEMVAIR CONVECTORS**



The MEMVAIR Convector looks right in any room.



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THE CIRCULAIR

An inexpensive easy-to-carry convector. Use this new cylindrical convector wherever an economical easy-to-carry heater is required in small rooms, landings and during cold spells. Low running costs—rated at 1 kW.

WHEREVER you want the latest in heating for shop, office or home see what Memvair convectors offer you. First you get all the comfort and convenience of central heating at the touch of a switch. Memvair convectors set up gentle currents of warm air which reach every corner of the room. They are handsome yet unobtrusive and harmonise with all good styles of decoration in business or domestic premises. Here, at a glance, are some of the other attractive features.

- Substantial construction.
- Very small floor area.
- Smooth unbroken surfaces for easy cleaning.
- Attractive finish in bronze with burnished copper surround to protective grille.

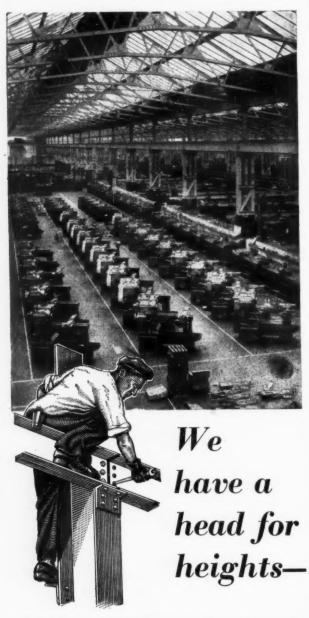
Send for MEM Convector Folder. (Z)

- Appearance enhanced by internal illumination when in use.
- With or without thermostat control.
- Made in 3 ratings—1 kW, 1½ kW and 2 kW.

MIDLAND ELECTRIC
MANUFACTURING COMPANY LTD.

TYSELEY, BIRMINGHAM. Branches in London and Manchester.





..but keep our feet on the ground!

Even if the job puts our heads in the clouds sometimes, we have a solid, rock-bottom way of getting down to it. We do take pride in our craftsmanship-in seeing a job well done. And nearly 90 years spent in the design, fabrication and erection of steelwork hasn't damped our enthusiasm for tackling any sort of job-high or low, big or small, home or overseas.

WALKER BROS

Why not see us about your structural steel-

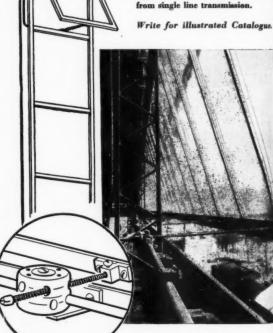
Photograph by kind per-mission of H. W. Ward & Co. Ltd., Selly Oak, B'ham

Structural Engineers men in steel

London Office: 66, Victoria St., S.W.I. Tel: VIC 3926

VEXATION

TELEFLEX Remote Control is simple, inexpensive, and dependate method of operating 'out-of-read windows and ventilators, dampers, ir ducts, shutters and similar units is means of a positive push-pull actin Contained within a neat, rigid condu it operates effectively in both tensi and compression, without distortion TELEFLEX Cable ensures compl flexibility with accuracy through a directional changes. It also allo simultaneous multi-point operati from single line transmission.



TELEFLEX REMOTE CONTROL

> TELEFLEX PRODUCTS LTD. BASILDON . ESSEX

> > Telephone: Basildon 22861



You know the answer to all their troubles as well as we do. Inter-line that corrugated roof with inexpensive, easily-applied, everlasting Fibreglass heat insulation. Then Fred will stop perishin', Bert will stop beefing and the 'Guvnor' will stop biting. What's more, the installation of Fibreglass will pay for itself in less than three years!



Meet Perishin' Fred!

Very fond of a grouse is Fred. Doesn't have to look far either. 'Like the perishin' North Pole in this perishin' factory', growls Fred. But at least he stays on the job; half the girls are away with the sniffles.

Now meet Bert - of the boiler'ouse

'It's no good them coming grousing to me,' glowers Bert, 'radiators are full on (or nearly), and the Guvnor's always bitin' my 'ead off about the fuel bills.'



wrap that factory in

FIBREGLASS

FIBREGLASS LIMITED, RAVENHEAD, ST. HELENS, LANCS. (ST. HELENS 4224). FACTORIES AT ST. HELENS, LANCS. AND POSSILPARK, GLASGOW



Introduced many years ago, 'Sirapite' Plaster rapidly established itself as a first-class product. Consistently developed and improved, it is now generally recognised as the ideal finishing plaster. The following supplementary 'Sirapite' products are manufactured to the same high standard:



'SIRAPITE' BROWNING

(Retarded Hemi-hydrate) Class B, type 'a'. The quick-setting undercoat plaster. Specially produced to enable surfaces to be rendered and set in one day. High covering capacity.

capacity.
Good insulating and fireresisting properties.

'SIRAPITE' BOARD FINISH

(Retarded Hemi - hydrate) Class B, type 'b'. For use as a single coat on plaster board, fibre and other wallboards.

Full technical service available, including consultation on site.

SPECIFICATION BOOKLET free on request.

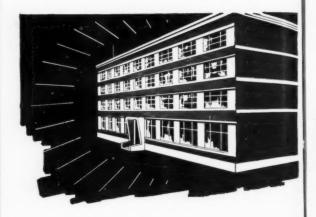
Sirapite PRODUCTS

THE GYPSUM MINES LTD

MOUNTFIELD · ROBERTSBRIDGE · SUSSEX

Phone: Robertsbridge 80.

And at Kingston-on-Soar, Nottinghan



Daytime Heating...

cheaper

at night!

Panelec Embedded Electric Low Temperature Radiant Floor Warming provides efficient heating at a cost which is always comparable with, and often less than any available alternative form of heating...

- * Consumes current only at night, taking full advantage of OFF-PEAK tariff.
- * Saves space and simplifies building design.
- * Reduces dust-carrying convection currents and banishes "Cold spots."
- * Extends the life of furnishings and interior decorations.
- ★ It is clean, healthy, safe and automatic—providing constant temperature control irrespective of external conditions.

There are many applications of the Panelec Floor Warming System. If you have a heating problem, the chances are that Panelec can provide an effective and economical answer. Why not investigate the possibilities of using Panelec?—write for publication No. PAN.655C or discuss the matter with Panelec Technical Advisory Service. Our engineers will be pleased to help you.



N.B. "Panelec" is the original, registered trade name for this patented warming system, and can only be obtained from the address, shown here.

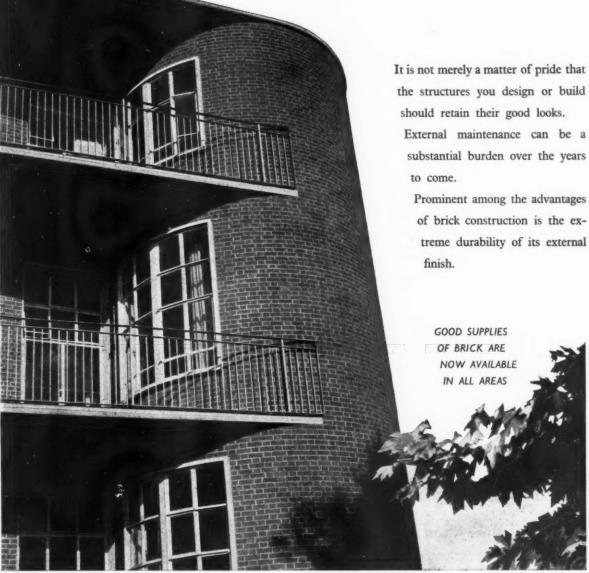
REGISTERED TRADE MARK

PANELEC (GREAT, BRITAIN) LTD .
Telephone: REDHILL 3451 (5 lines) PBX.

27 Hatchlands Road, Redhill, Surrey Telegrams: MURELEC, REDHILL

Safeguarding

EXTERNAL APPEARANCE



Extension to St. Andrew's Hospital, Dollis Hill, London, N.W.2. Architect: H. H. Clark, F.R.I.B.A.

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original, his patan only , shown

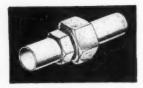
Surrey REDHILL

BRICK Saves Maintenance

ISSUED BY THE NATIONAL FEDERATION OF CLAY INDUSTRIES, DRAYTON HOUSE, LONDON, W.C.I



FERRANTI RESEARCH LABORATORY Crewe Toll, Edinburgh. Architects:-Fairbrother Hall & Hedges, 27, Rutland Square, Edinburgh.



They made sure . . . The designers and sub-contractors on this project wanted a plumbing system that did them full justice. They specified "SECUREX" Solderless Compression Joints because they knew that only "SECUREX" cuts costs and guarantees maximum efficiency. Send to-day for catalogue which illustrates a "SECUREX" Joint for every purpose.

AMES LAMONT

ENGINEERS - BRASSFOUNDERS

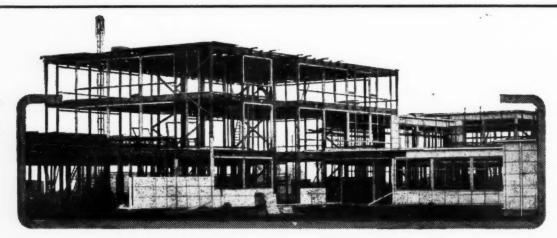
GYLEMUIR WORKS, CORSTORPHINE, EDINBURGH 12, SCOTLAND

Telephone: Corstorphine 2241-2

Telegrams: "Solderless, Edinburgh"

LONDON OFFICE: NORFOLK HOUSE, LAURENCE POUNTNEY HILL, E.C.4 Telephone: Mansion House 5700

Telegrams: "Yutaka Cannon, London"



brockhouse structures

Brockhouse Steel Frames are manufactured from prefabricated cold rolled steel sections for the construction of schools, office blocks, etc.

* Sandon Secondary Modern School. Architect: H. CONOLLY, Esq., F.R.I.B.A., Essex County Architect

BROCKHOUSE STEEL STRUCTURES LTD., 25, HANOVER SQUARE, LONDON, W.1 . Telephone: MAYfair 8783

AJ/IA

Spruce

A Canadian wood, creamy white in colour and sometimes tinged with red, that has a wide range of uses.

TYPICAL USES

Light and medium construction, agricultural implements, windows and doors, shelves and general carpentry

Scaffolding, ladders, kitchen furniture

Wagon boxes, concrete forms, pumps, tanks and silos

Oars and paddles, organ pipes, sounding boards for musical instruments

Pulp and paper, rayon pulp and cellophane

Good containers, butter and cheese boxes, cooperage

SPECIAL ADVANTAGES

Strong for its weight, yet comparatively soft and very resilient

Seasons readily and uniformly

Easily worked, takes smooth satiny finish

Takes paints, varnishes and enamels well

Minimizes "wood tainting" in packaging of foods, butter,

Takes nails without splitting and holds them well.

FOR FURTHER INFORMATION concerning Canadian woods contact The Commercial Counsellor (Timber), Canada House, Trafalgar



WOOD IS NATURE'S BEST BUILDING MATERIAL

Reproduced here is figure of Canadian Spruce.

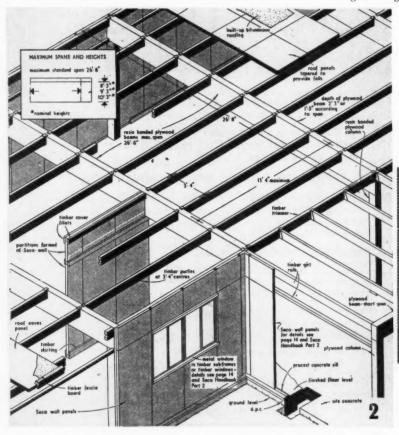
This advertisement is one of a series featuring Canadian Douglas Fir, Red Pine, White Pine, Western Red Cedar and Pacific Coast Hemlock.



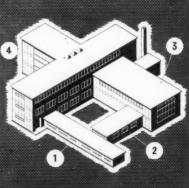
SECO SINGLE STOREY PLYWOOD-FRAMED CONSTRUCTION...

is one of four integrated systems

in the SECO Mark VIII form of construction



- 1 SINGLE STOREY
 CELLULAR CONSTRUCTION
 - 2 SINGLE STOREY PLYWOOD-FRAMED CONSTRUCTION



- 3 SINGLE STOREY STEEL-FRAMED CONSTRUCTION
- 4 MULTI-STOREY STEEL-FRAMED CONSTRUCTION
- The seco Mark VIII System of Construction has been designed to provide permanent buildings to suit a variety of needs such as Schools, Industrial and Commercial buildings.

The four systems of construction can be used individually, or they can be integrated in one building. This allows the most economical construction to be used that is consistent with the function of each section of the building.

Based on a 4" module, the four systems of construction conform to a standard 40" planning grid. Other planning grids can be used, provided they are multiples of the 4" module.

The SECO panels which form the walls and roofs in SECO construction provide excellent thermal insulation, resulting in considerable fuel economy. The panels also possess outstanding fire protection properties.

Illustrated above is a system of construction suitable for buildings with spans up to 26' 8". The frame consists of resin-bonded plywood beams and columns which provide a neat internal finish. No false ceilings or beam casings are required as in the case of the corresponding steel framed system.

Full details are contained in our booklet— SECO Mark VIII Construction, Part I, a copy of which will gladly be supplied upon request.

SEGU CONSTRUCTION is particularly suitable for schools, factories, offices, canteens

SECO LIMITED . 11 UPPER BROOK STREET . LONDON . WI . Telephone MAYFAIR 9080

















Lighting Engineers and Manufacturers of lighting fittings for all industrial, commercial and decorative purposes.



91 FARRINGDON ROAD, LONDON, E.C.1 and Branches Telephone: HOLborn 7654

London Showrooms: 20/22 MOUNT STREET, PARK LANE, W.1
Telephone: MAYfair 5671/2



The Peregrine Falcon, which from the dark bluish-grey of its upper plumage is called the Blue Hawk, is generally hailed as the most perfect combination of strength, health, speed, variety of flight and courage of all birds; and it has often been declared by falconers that it would not be advantageous to alter in any degree or proportion those admirable qualities that make the female in particular the favourite hunting bird the world over. Moreover, another important fact adds to the unique position of this falcon in the realms of sport: she is found in nearly every part of the earth, a true cosmopolitan.

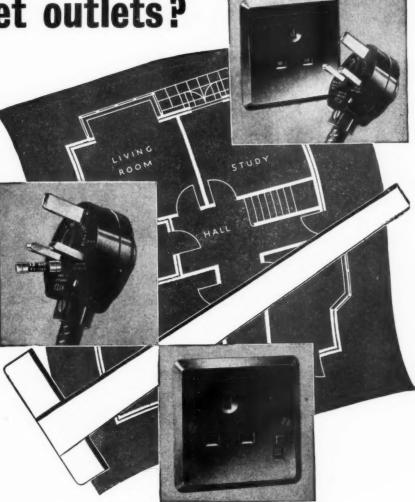
The 'Blue Hawk', once supreme in the sporting field, is now to represent the supreme in another field—Building Materials

Look for the 'Blue Hawk'



how many socket outlets?

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For an efficient and well-planned job make sure there are adequate numbers of Socket Outlets in each room, and remember to specify the Windsor range of Ediswan Accessories. These are quality Accessories at competitive prices, and the range includes all types of 13-amp. socket outlets, switch socket outlets and rectangular pin fused plugs for normal installations. The Ediswan plug that can be re-fused in 15 seconds, without the use of tools, is also available.

EDISWAN ELECTRICAL ACCESSORIES

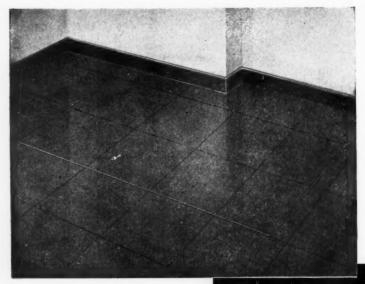
THE EDISON SWAN ELECTRIC COMPANY LIMITED

155 Charing Cross Road, London, W.C.2 and Branches

Telephone: Gerrard 8660

Member of the A.E.I. Group of Companies

Telegrams: Ediswan, Wescent, London



BROADSTEL COVERS

After a period of acute shortage of sheet steel the BROADSTEL COVER is now readily available for prompt delivery.

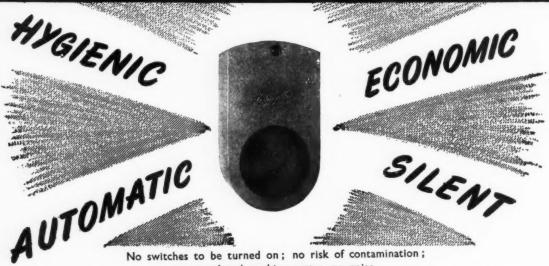
Designed for filling on site to match the surrounding floor or paving. Highly resilient to impact and almost invisible when installed.

Detailed Brochure sent on request.

for paved surfaces

MANUFACTURING CO. LTD. 4 SOUTH WHARF, PADDINGTON, LONDON, W.2 . Tel: PAD 7061 (20 lines)

PAIRS OF HANDS FOR ONE PENN



No switches to be turned on; no risk of contamination;

no towel and washing costs; no noise.

Wet hands are placed inside the aperture, the dryer starts automatically and in a matter of seconds the hands are dry. Removal of the hands stops the dryer. Can be fitted flush with walls when required.

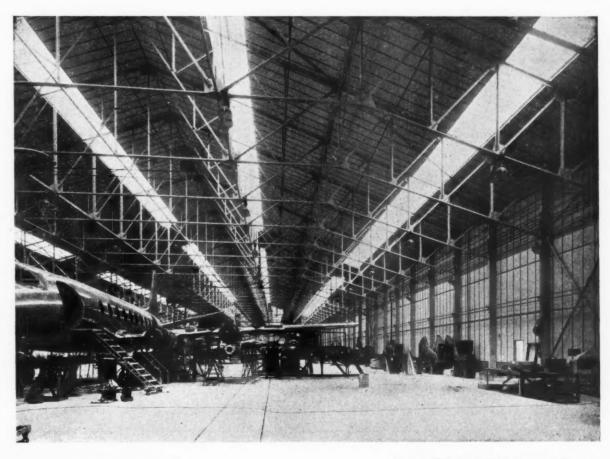
WHEREVER THERE IS A WASH BASIN THERE SHOULD BE A

BROUGHTON

ELECTRONICALLY

J. BROUGHTON & SON, (Engineers) LTD., SECURITY WORKS, FACTORY CENTRE, BIRMINGHAM 30 Telephone: KINGS NORTON 3305/6/7 Telegrams: AUTOGARD, BIRMINGHAM

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Hangars at Hurn Airport, Vickers-Armstrongs Ltd. Architects: Messrs. Ley, Colbeck & Partners, FF.R.I.B.A. Main Contractors: Galbraith Bros. Ltd.

200,000 FT. SUPER OF THERMAL INSULATION

he above is an outstanding example of the work which the Anderson Organisation is doing to bring the benefits of Thermal Insulation to all sections of industry.

Approximately 200,000 ft. super of 1 in. Asbestolux were fixed by means of AND steel tee sections.

Now recognised as an essential service to industry, thermal insulation reduces fuel consumption, improves working conditions and increases productivity. A.C.C. has been responsible for many of the most important installations in the country and will be pleased to place its specialised technical knowledge, unrivalled experience and resources at your disposal.

Through its Contracting Agents in strategic centres, the Company is organised to give prompt and competent service in any part of the country. Please ask for literature.

A·C·C ANDERSON CONSTRUCTION CO. LTD.

CLIFTON HOUSE EUSTON ROAD LONDON N.W.I

EUSTON 7465

CONTRACTING AGENTS

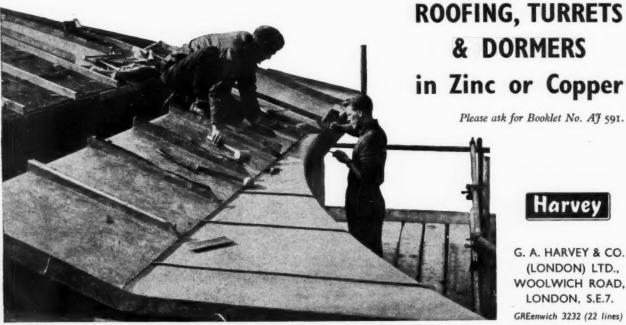
ANDERSON CONSTRUCTION CO. AND GIBSON LTD. Thornton's Chambers, 57 The Headrow, Leeds 1. BEAUMONTS (MANCHESTER) LTD. Head Office: Victoria Park, Manchester 14. JOHN BLAND & CO. LTD. Head Office: East Moors, Cardiff (and Branches).

Wm. GIBSON & CO. (BUILDERS) LTD. Head Office: St. James Street, Paisley. HALL & CO. LTD. Head Office: Victoria Wharf, Croydon (and Branches). JENKINS & SONS LTD.
Head Office: Laverton House,
4, Millbrook Road, Southampton (and Branches). RUDDERS & PAYNES LTD. Head Office: Aston, Birmingham 6 (and Branches).

Combating the Elements

The satisfactory fixing of Zinc or Copper Roofing demands wide experience and craftsmanship of a high order.

Harveys have been engaged on important work of this nature for over seventy years and will be pleased to advise upon and to undertake contracts for



Harver

G. A. HARVEY & CO. (LONDON) LTD., WOOLWICH ROAD, LONDON, S.E.7.

GREenwich 3232 (22 lines)



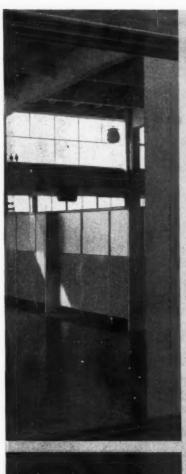
just published: the revised edition of

The Modern SHOP

by Bryan and Norman Westwood

THIS NEW EDITION of The Modern Shop (first published 1952) has been revised and brought up to date still further, particularly by the inclusion of a considerable number of new illustrations and the addition of a further 8 pages of plates. The book is written by two outstandingly successful shop-architects, and is concerned with the planning, design and equipment of the smaller retail shop. Although the main emphasis is on the smaller shop the principles which the authors enunciate are equally applicable to the large shop and department store. The text of the book is practical, comprehensive and up-to-date; it includes chapters dealing with the site, the plan, the façade, the self-service shop, fixtures and fittings, lighting, heating, costs, etc. It is very carefully illustrated with well over 300 drawings and photographs which include several interesting and important very recent examples from overseas. Size $9\frac{1}{2}$ in. by $7\frac{1}{2}$ in. 191 pages with over 300 line and half-tone illustrations, bibliography and index. Price 30s. net. Postage 8d.

THE ARCHITECTURAL PRESS, 9-13 QUEEN ANNE'S GATE, S.W.1



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591.

CO. D., AD,

nes)



British European Airways, Staff Catering Block, London Airport.

It's well worth looking into

- Medium price high quality contemporary style
- Speed of erection and dismantling with complete adaptability to unusual layouts and high recovery value
- Tough, consistent, infra-red dried SaR-ReZ plastic surface, factory finished in standard colours
- Excellent heat and sound insulation from thick, continuous cork core which eliminates drumming
- Many optional features such as double glazing, concealed wiring or decorative wood veneer faces
- Rigidity with light weight

MEDINO PARTITIONING





SARO LAMINATED WOOD PRODUCTS LTD.

EAST COWES, ISLE OF WIGHT. Telephone: COWES 704-9
LONDON OFFICE: 45 PARLIAMENT STREET, S.W.I. Telephone: 1RA 6291

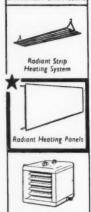
London Transport Road Services Factory, Aldenham.
"Copperad" Radiant Heating Panels operating on
L.T. and H.T.H.W. are employed throughout this
depot. View shaws L.T. Panels in the Preparation Shop.



on the question of



HEATING



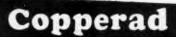
Fan Convectors or Fan Coolers

Jetstream Unit Heaters

CREE, SERR

Grilles

Architects and Engineers do not always see eye to eye on the burning question of temperature and air movement. But we at Copperad are most flexible in our ideas on Architecture—inflexible only in our claims for the quality of our products. COPPERAD Heating and Ventilating Equipment combines sound engineering practice, attractive styling, highest-quality materials. If you want the best, you want Copperad—there's no difference of opinion about that.



the first name in heating and ventilating

Copperad Limited

Head Office & Works:
Colnbrook, Bucks Tel.: Colnbrook 203 (5 lines)
LONDON:
I York St., Baker St., W.I Tel.: WELbeck 1226/7

I York St., Baker St., W.I Tel.: WELbeck 1226/7

EDINBURGH:
30 Rutland Square Tel.: FOUntainbridge 6067

BIRMINGHAM:
1/7 Corporation Street
Tel.: FOUntainbridge 606/
Tel.: MIDland 1553

BRISTOL:
Chesterfield Chambers, Westbourne Place,
Queens Road, Clifton, Bristol 8
Tel.: Bristol 3'3883

Queens Road, Clifton, Bristol 8
Tel.: Bristol 3:3883
REPRESENTATIVES AT: BELFAST LEEDS
MANCHESTER NOTTINGHAM





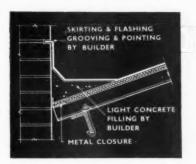


Use also Venus Soft Pencil Erase

VENUS PENCIL CO. LIMITED
LOWER CLAPTON ROAD, LONDON, E.5



TYPICAL DETAILS OF FINISH



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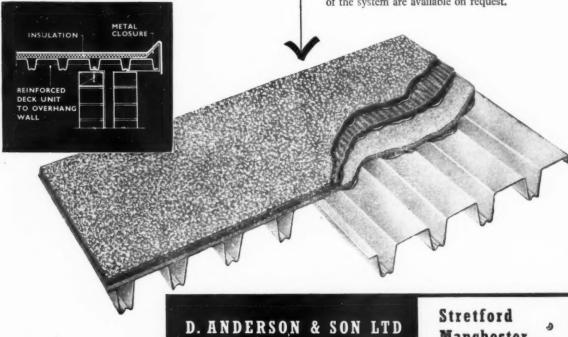
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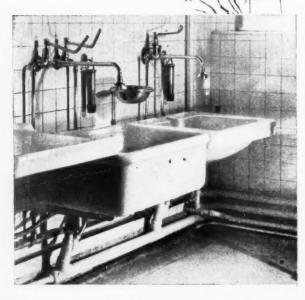
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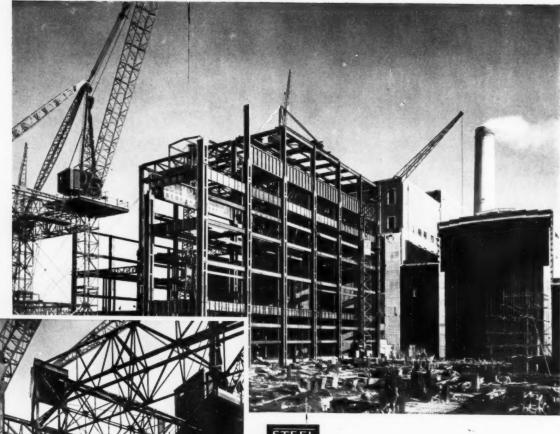




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THANK YOU, ABS

At last we've hit the jackpot. The thought of 1,000 architects dancing at Grosvenor House so excited the Evening Standard's sub-editor that he put them at the top of the "London By Night" column last Friday. With so many members of the profession to choose from, at the annual ball of the ABS, the Standard's reporter had a good chance of picking up some snippets of architectural gossip. But this man knew his job and put first things first. However capable many of the architect-guests might be by day, they just haven't got the imagination to get into night-time news stories. Which of us could compete with Miss Who-wasit, who got a whole sentence to herself

for dropping request notes on to the band from the balcony?

But let me be fair to the Standard. It did give credit to the students who designed the Stone Age backcloths for the ball. It did not, however, comment on the most decorative feature in the ballroom-a feature that was soon destroyed by the guests. From the balcony entrances the tables appeared to be covered with copies of Architectural Design. And although the effect of these neat ranks of gaily-coloured booklets was very pleasing, ASTRAGAL felt for a moment that there are things one just doesn't do. As a matter of fact. one hadn't: the booklets were menus, carrying a cover by Thin Cr by who does the Architectural Design jackets. Yet no credit for this contribution was claimed anywhere in the well-produced menu-cum-advertisers'-romp.

There was a good band, some good competitions, and-of course-plenty of good company at the ball. And the food was as good as it always is at these large-scale affairs where, if you listen carefully, you can almost hear the pistol shot as the waiters sprint into position to change the food around. As for the speeches-well there weren't any; there never are at this function, and that is one reason why ASTRAGAL has such a good time there and seldom says anything about it. But manners have been restored this year, and you, dear reader, have witnessed your correspondent's ability to write a bread and butter letter. Dull? Well, other people's letters usually are.

VOTES FOR STUDENTS

Just how impossible it is to put back

the clock was demonstrated last week when the AA discussed proposals to alter byelaws so that student members might regain the power to vote for members of the AA Council. They lost this power before the war. It was chastening to ASTRAGAL to recall that part of the blame for this loss lies with his own too-hasty reporting. Of course, the power was abused, and under threat of losing an educational grant the vote was taken away. Now, when surely the bulk of the AA membership agree that some of the vital life of the AA school disappeared with the loss of the vote, it is disclosed that, legally, the AA, as an incorporated body, can only give limited powers to the students: they will be able to nominate any member to stand for council, but they can only vote for two members standing for election. Even so, this puts the AA students in a unique position in the country. It is to be hoped that they set an example to the members by a wise use of their new powers.

This is a great achievement on the part of the AA, and Past President Peter Shepheard deserves much of the credit for it. It only remains for members to support his tireless endeavours to put things right by approving the new byelaws.

And then, perhaps, ASTRAGAL might suggest very humbly, that everyone stops talking about student education as though it was something peculiar which developed organically and rather indelicately between late adolescence and maturity, and concentrates for a change on adult education. Isn't it time we made sure that AA architects are producing efficient and pleasing deCREATION WITH CRAFTSMANSHIP



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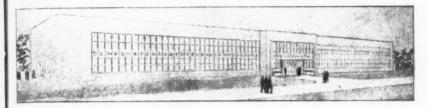
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Two recent designs by Sir Percy Thomas. The top one is for an hotel, offices and a market for Swansea. The other is for a Natural Science Building, University College of Wales, Swansea. See note on this page.

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signs in efficient surroundings and within an efficient set of rules in which to operate? Just so that those prissy little newly-qualifieds don't sneer too openly when they condescend to join us?

SIR PERCY THOMAS, GOLD MEDALLIST

My illustrations this week show two recent designs by Sir Percy Thomas. The more traditional of the two is for a proposed hotel, offices, and market for Swansea. The actual site is shown in this week's frontispiece. A few years ago Sir Percy was acquiring a reputation, with his large industrial work (readers will recall his nylon-spinner's factory, and the Margam steel works) for being an architect with progressive views on design. This was all to the good. As the architect with the largest practice in Wales it was encouraging to find him setting the pace as well. The schemes illustrated here are extraordinarily disappointing, and industrial South Wales, as the frontispiece indicates, is in no state to receive visual shocks of this order.

WHAT MR. DAVIES REALLY SAID

On another page you will see a letter from J. H. V. Davies, replying to ASTRAGAL'S strictures upon him for introducing old-fashioned polemics and faction-warfare into his Third Programme talk on Hallfield School-or rather, you will see that he fails to reply precisely to that very accusation, and concerns himself (as ASTRAGAL must admit to his shame) with misquotation. This was, of course, inexcusable, but you will note that Mr. Davies does not deny responsibility for the word "slaughterhouse," which remains a dastardly term of comparison for anyone to throw at any school.

As for the sense being "completely distorted": well, if you are interested. you should refer to the reprint of Mr. Davies' talk in the Listener for November 17, and see whether or not you think the accusations of factionalism and excess partisanship are justified. You might also like to turn to the JOURNAL for November 24, where you will see that ASTRAGAL'S reference to Hertfordshire schools was followed by a qualifying parenthesis which Mr. Davies has omitted. ASTRAGAL will refer no more to this pot-and-kettle case and wishes Mr. Davies and all readers a very happy Christmas.

ASTRAGAL



Progress In Swansea

Swansea was one of the few blitzed towns whose progress in post-war reconstruction was not described in the Journal's series of articles on the subject. This aerial view shows the extent of the rebuilding in the town centre. A new and improved road pattern is discernible, culminating in an enormous roundabout. It remains to be seen whether the engineer-planner R. D. Moody has estimated accurately the pattern and density of traffic which the centre of this town of 160,000 people will have to carry. The amount

of new building, coupled with the empty sites, indicates the severity of the damage suffered during the war. The occupiers of the various buildings, and the architects of them, are shown by the plan below left, and the key below It will be noted that less than half the architects are Welsh firms, and even fewer are Swansea architects. In the foreground is the site of the present market, the rebuilding of which is referred to this week by ASTRAGAL. (Photo, Aerofilms)

Henry A. Ellis & Son Score for C. & A. Modes. Architects: North & Partners Shop for Parkin. Architect: Marcus Leaver & Co. 33 33

Building for E. Joseph (shops and offices).

than half the architects are Welsh firms, and even fewer are Swansea architects. foreground is the site of the present market, the rebuilding of which is referred week by Astragal. (Photo, Aerofilms)

the engineer-planner R. D. Moody has estimated accurately the pattern and density of traffic which the centre of this town of 160,000 people will have to carry. The amount

Architects: Cook, Ress & Tagholm
36 Building for E. Joseph (shops and offices).
Architect: C. Vaughan
37 Shop for Maypole. Architect: W. H. Waakins
38 Shop for Maypole. Architect: W. F. Brown. Maypole
Dairy Co. Led.
39 Shop for Olivers. Architect: Sir Percy Thomas
40 Shop for Currey's. Architect: Sir Percy Thomas
40 Shop for Currey's. Architect: W. J. Dacombe & Sons
41 Shop for Stead & Simpson. Architect: Hubert Rogers &
Ward 16 Shop for Boots, Architect: C. St. C. Oakes
C.W.S. Led.
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B. Shop for Co-operative Society, Architect: C. H. Reed.
C.W.S. Led.
19 Shop for Morrisons, Architect: Henry Ellis
19 Shop for Bevan & Co. Architect: G. Felix Wilson
20 Building for Clity & Town Builders (shops and offices)
Architect: L. H. Fewster & Partners
21 Shop for Meets, Architect: A. Hughes
22 Shop for Mavenseft, Architect: C. J. Epril
23 Shop for Willerby's, Architect: C. J. Epril
24 Store for Littlewoods, Architects: Littlewoods
Architects' Department
25 Store for Home and Colonial, Architect: F. Greehead
26 Shop for W. H. Smith, E. T. Eynon. Architect:
C. A. Hughes for John Hall. Architect: Vaughan & Ridgewell for Wildings. Architect: E. Edmunds for Langley. Architects: Gratrix & McLennan urant building for Rabbiotti. Architect: C'aughan Showroom and offices for Wales Gas Board. Architect: T. Alwyn Lloyd & Gordon 27 30 30 2 Shop for William. Architect: Henry Budgen
3 Store for Marks & Spencer. Architect: James A. Monro
4 Shop for Town Tailors. Architect: Clifford Vaughan
5 Building for Pearl Insurance (shops and offices).
Architect: Alex. F. French
6 Shop for Westons. Architect: Clifford Vaughan
7 Shop for Darals. Architect: Clifford Vaughan
8 Shop for Darals. Architect: Clifford Vaughan
8 Shop for Revense Architect: D. Hamilton. Wakeford
8 Partners
9 Store for David Evans. Architect: Percy V. Burnett & Partners 10 Shop for Philips. Architect: Cook, Rees & Tagholm Leslie's Store. Architect: Henry Budgen Shop for Cavendish. Architect: North & Partners Shop for Sevingfield. Architect: Ardin & Robbins Building for Ravensfield (shops and offices). Architect: Ardin & Robbins Martin Shop for Burtons. Architect: N.

for Stead & Simpson. Architect: Hubert Rogers &

Ward
4 Score for Lipton's, Architect: W. H. Dark
43 Shop for "Style and Mantle." Architects: Henry
Ellis & Son

Shop for Fanbury's. Architects: Henry Ellis & Son Temporary Post Office building. Architects: MOW Site of Market. Rebuilding by Sir Percy Thomas &

44 Shop 45 Tempo

The Editors

MAINTAINING THE TRADITION

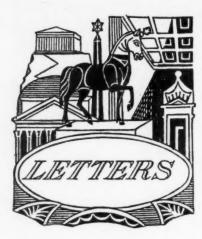
THE rebuilding of London after the blitz has not formed part of the Journal's series of articles on post-war reconstruction because the vastness of the subject precludes it. It is hoped, however, to show in the coming year some of the achievements in the City, in some of the reconstruction areas, and in a typical borough. This week we illustrate one of eleven neighbourhoods in the Stepney-Poplar Reconstruction Area. The scale of the LCC's programme is indicated by the fact that Stepney-Poplar is but one of several Reconstruction or Comprehensive Development Areas formed by Robert Matthew, when Architect to the LCC. The others are: the City (in collaboration with the City Corporation), Bermondsey, South Bank, the Elephant and Castle, Bunhill Fields, Lewisham and Woolwich. Of these, the proposals by the LCC's Reconstruction Area Group for Lansbury, in Stepney, for the Barbican area of the City, and the South Bank are familiar to readers. The proposal illustrated this week for St. Anne's is a worthy, if necessarily more modest, product from the same Group. to see that the tradition of this Group for new development techniques and dynamic planning continues under the ægis of the new Senior Planning Officer, L. W. Lane.

At a time when fundamental planning principles are being doubted or ignored it is salutary to see how the LCC Town Planning Committee, under its enthusiastic and informed chairman, Richard Edmonds, is pressing forward in its endeavours to provide humane and attractive living conditions in these near-derelict parts of London. It is salutary, too, to discover that these praiseworthy schemes for reconstruction and three-dimensional planning result from harmonious team-

work between client, planner and architect.

PLAN THE EXHIBITION

Protests in the JOURNAL that the Building Exhibition should be planned for the visitors' convenience have always been answered by the argument that the various exhibitors would never agree to being grouped with their competitors. deference to the exhibitor, rather than to the visitor, is confirmed this year by no less a person than C. H. Aslin, the President of the RIBA and the Chairman of the Exhibition. His views were expressed in reply to criticisms made by John Eastwick-Field and John Stillman in an article in *The Builder*. When a journal as staid and respected as *The Builder* supports this criticism in a leading article, it is surely time for even the most conservative views to change. Would it be too much to hope that some of the enterprising manufacturers get together and show how keen they are to serve the technical visitor? At the present rate of progress the building exhibition is liable to choke in its own luxurious growth. If the visitor cannot get round the exhibition profitably, and in comfort, he won't come at all.



7. W. Nevill, LL.B. 7. H. V. Davies " Ex-Kings" Ian Morris F. L. Preston, F.R.I.B.A.

J. Evans, A.R.I.B.A. of Easton and Robertson

The Architect and the **Building Contract**

I am not an architect, but I have sufficient interest in and connection with the profession to read your JOURNAL fre-quently. I found the letter by "Inglis" quently. I found the letter by "Inglis" (November 24) interesting and somewhat disturbing

If a building owner fails to settle the contractor's account promptly after the archi-tect has issued his final certificate, that surely is no concern of the architect. It is another matter, however, if, as may be implied by the first paragraph, architects are allowing the issue of the final certificate to be held up or influenced by the financial procedure local authorities

It is part of an architect's professional duty to act judicially as between his client and the contractor in contract matters, as a quotation from Hickman & Co. v. Roberts, decided by the House of Lords in 1913, clearly illus-

"The position of an architect in a build-ing contract is one of great delicacy. He is placed in the position to act judicially when, to the full knowledge of both par-ties, the person who is his master and his paymaster is one of the parties to the contract. It has been affirmed by Courts of Law however that that being the conof Law, however, that that being the case his judicial position must be accepted, and it follows from that that in the peculiarly delicate situation in which such a man stands the Courts of Law must be particu-lar to see that his judicial attitude is maintained."

Moreover, local authorities should realize that their own position, as building owners, be prejudiced if they interfere with the architect's professional judgment:

"The defendants (the building owners) cannot rely upon this certificate . . . as an adjudication binding on the other party.

The architect... placed himself in a position which deprived his certificate of the value which otherwise it would have had."

He (the architect) is no locate of the beautiful to the architect of the second of the beautiful to the architect of the second of the beautiful to the architect of the second of the beautiful to the architect of the second of the beautiful to the architect of the second of the beautiful to the second of the beautiful to the second of the second of the beautiful to the second of the second

He (the architect) is no longer fit to be a judge, because he has been acting in the interests of one of the parties, and by their direction. That taints the whole of his acts, and makes them invalid, whatever subsequent matter his decision is directed

These further quotations emphasize the decision in the case, which was that as the architect had allowed himself to be inarchitect had allowed nimself to be in-fluenced by instructions from the building owner in the issue of a certificate, a matter in which he should have exercised his own professional judgment, the building owners could not rely on his certificate in an action against the builder, notwithstanding the conagainst the contract provision that the decision of the architect should be final.

The architect in the case was in private practice but the principal quite clearly ex-

tends to an architect employed full time by a local authority if he is nominated as "the architect" in a building contract.

J. W. NEVILL.

Mr. Davies Didn't Mean Herts

London.

SIR,—ASTRAGAL'S comments, in your issue for November 24, on my recent broadcast talk contain a number of misrepresentations of a kind that seem to occur fairly regularly or a kind that seem to occur fairly regularly in his column. To take the most obvious example: he cites a passage "in which the children in Hertfordshire schools were referred to as being herded along like cattle in a hygienic slaughterhouse." The passage actually runs: "A school must do more for children than allow them to circulate in the most officient recovery. the most efficient manner like so many cattle in a slaughterhouse." "Herded along" and "hygienic" and "Hertfordshire" are thus ASTRAGAL'S own contributions. The sense is, of course, completely distorted.

The Hertfordshire schools were certainly not in my mind; they had not been mentioned in the previous ten minutes, but why should ASTRAGAL bother about a little thing like that?

Since my talk has been permitted "the permanence of print," anyone can see what I actually did say. I am content to rest on that, but I fancy that those interested in the brawling of architectural factions will find much more to their taste in ASTRAGAL'S column than they will in my talk.

J. H. V. DAVIES.

London. [ASTRAGAL replies on page 827.]

Give The Youngsters Something To Do

SIR,—Why does anyone take up architecture? The answer to this question several years ago might well have been that it was a pleasant occupation, which, if not rewardof the individual to create something of beauty. I would suggest that the answer to this question now is "Heaven only to this question now is

knows why."

Though it is obvious that the young fellow straight from University has a tremendous amount to learn, the very qualities which he possesses are never utilized. For example his enthusiasm and his contemporary approach to design.

Today wherever one goes one finds one's colleagues are frustrated and often bitter people. How can they be otherwise any enthusiasm they show is stamped on as a too forward and pushing approach to life. Chained to the drawing board they are supposed to remain diligent and productive in the particular field of draughting. The aim of their superiors—fellowarchitects-seems always to be never to put architects—seems always to be never to put pencil to tracing paper as long as they live. What temerity to suppose that the junior might help to supervise the job he has designed and draughted; and to visit the site is a thing to be frowned on at all times. I think that it is only fair to say that in

the main my remarks refer to work in local government. It would be very wrong to suggest that the only remedy is to move from local government. The junior archi-

tect has too migratory an instinct anyway! Might I finish with the plea that those in positions where they can change things, give their juniors more responsibility and let them do the job they are clamouring to do, and for which they trained.

EX-KINGS."

Yorkshire.

More About Poaching

SIR,—As a layman, who is not entirely un-connected with building, I venture to ex-press my disgust at the bleatings of those Pecksniffian gentlemen whose letters appear in your columns from time to time, in con-nection with so-called "poaching."

Apparently they cannot bear to think of the underpaid architects employed by certain

local authorities occasionally getting a small

house to design.

I am quite sure that no architect in private practice, who is worthy of his salt, has anything to fear from his brethren in public employment who accept small private commissions now and again.

Not being a member of the RIBA—or a registered architect for that matter—perhaps I am not vitally concerned, but I can only express the hope that, should the above august body ever be so misguided as to lend its support to a revision of the Code of Professional Conduct, whereby publicly em-ployed architects are precluded from adding to their meagre incomes outside office hours, there will be a mass exodus from the Institute, which, after all, derives the bulk of its revenue from the salaried architect.

Incidentally, I have yet to hear of a private architect refusing to accept a commission

from a local authority, for fear of putting the salaried staff out of jobs! What is really wanted is an Act of Parlia-ment making it illegal for any Council to approve plans which have not been prepared by a registered architect.

IAN MORRIS.

London.

A Leakage of Sound

SIR,—Since the audiometry room of the Hospital for Sick Children, Great Ormond Street, W.C.1, was illustrated in the JOURNAL of October 21, 1954, we have found it to of October 21, 1954, we have found it to be unfortunately vulnerable in one part and we have since had to remedy the leakage of sound through the ceiling, by fixing underneath two layers of plaster board to absorb high frequency airborne noises.

We have received a number of enquiries from other architects regarding this room, following your publication of the details, and we should be pleased if you would draw your readers' attention to the correction that it has been necessary to make.

F. L. PRESTON.

London.

Letter From An Exasperated Architect

SIR,-As a younger member of the profession I am exasperated by the attitude of the RIBA. I am often prompted to ask "what use is Portland Place anyway?" It would appear to be ruled by a series of com-mittees made up each year of different people each as stagnant as the last with paid hands hovering protectively in the rear seeing that too much upheaval doesn't take place.

It seems to me that we pay our sub-scriptions for a latent body of tired old gentlemen. I have yet to hear of a fight between the RIBA and any Government body on our behalf; always it is "not yet" or "negotiations are in hand."

Now comes the latest joke under the heading "Architecture by Law." Why is the time not ripe? It really is about time the time not ripe? It really is about time the RIBA realized that there are many more Architects in the country than in London. Of course the time is ripe; if it were not, why are we still getting ribbon development, amateur architects and jerry building, the Town and Country Planning farce—for such it is and one of the biggest wastes of taxpayers' money I can think of; yet the RIBA say the time is not ripe!

London may be an exception, but allow me to assure the Council that the provinces

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London may be an exception, but allow me to assure the Council that the provinces are fed up to the back teeth with having planning committees who know nothing whatever about architecture sit in judgment upon their designs. It just is not funny: it is ridiculous and infuriating. If doctors had to submit their prescriptions to lay committees before action, the BMA would soon do something about it.

One cannot afford either the time or

one cannot afford either the time or money to get on to the RIBA Council until later on in life and by that time it becomes a hobby and a club. I submit that we want younger, more active and more spirited members in the high places. I have heard it said many times that the provinces do not set a look in and that can or the known. get a look in, and that one or two young men on a committee cannot fight the older

men on a committee cannot fight the older dogmatic majority.

I was annoyed at receiving the printed letter of April 25 from the Secretary, asking us to be good boys and not complain! Just who were the mainsprings of that letter? The whole purpose of writing it was to point out that internal division would let the side down as far as the public were concerned. What ridiculous childish nonsense when any member of the public, baker, butcher, or builder can, by getting on an appropriate committee, make a qualion an appropriate committee, make a qualified architect look a complete incompent fool: that hardly seems to help the prestige of the profession

Naturally there is dissatisfaction in the profession and so there will be while our services are not necessary by law and it is time the RIBA made it clear that it takes more than a fool to qualify for the profession, and when once qualified his opinion must be sought before any building is erected.

The lawyers protect themselves right up to the hilt, backed by an active Law Society, so do doctors and dentists, yet our profession is saddled with a lot of muddle-headed, self-satisfied, inactive old boys.

The more often one reads the platitudes and patronizing pleadings of the letter of April 25 the more one realizes it must have been sent as a joke. Certainly remain united been sent as a joke. Certainly remain united by and with some purpose, but let us have some definite dates to work to and a definite programme before us. The longer one gives a Ministry department the longer they will take. It is about time the Council was less polite and more forceful. They could start by refusing to allow architects to be subservient to borough surveyors and to force them to remove the demoralizing "assistant to . . " from the official records.

They could arrange for the RIBA to refuse

They could arrange for the RIBA to refuse to allow members to co-operate with the Town and Country Planning committees until such committees were composed of professional architects and to make a national issue of it. If the public are to be made aware of the duties of the architect, then it is the RIBA's clear and bounden duty to tell the public of the futility and waste of the present Act which does absolutely nothing but create more obstructions and more officials and more dictatorial powers for incompetent and unqualified officials. This may best be done, I submit, by showing the public that we do count after all. They could arrange for the RIBA to refuse after all.

No other top line profession would put up with the treatment that is meted out daily to architects, nor is any other so poorly paid or so little respected: so let the Council

dry its Victorian tears and really do some-thing for the profession as a whole and not the top minority. If it does not, I should be pleased to join a reactionary body, and I believe there is a great deal of room for

J. EVANS.

Torquay.

RIBA

Drawing Technique: A Discussion and Exhibition

On January 17 several architects will lead a discussion, at the RIBA, on drawing office technique. The chairman will be Peter Shepheard. An exhibition of drawings, which will be shown at the same time, will remain on view for the rest of the week. The drawings will be supplied by the chairman and by speakers (A. W. Cleeve Barr, Henry Elder, Richard Sheppard, Gordon Tait), as well as by the Herts CC, Tayler and Green, D. H. McMorran, Sir Thomas Bennett and F. R. S. Yorke.

The subject will be discussed under two headings, Project Drawings and Production Drawings. Each contributor to the exhibition has been asked to show samples of the drawings produced for a single complete project and to indicate the total number of drawings used of each type shown.

The RIBA hopes that this symposium will provide a useful opportunity to review archi-On January 17 several architects will lead a

provide a useful opportunity to review architects' drawings and the way they are produced, and to compare the methods by which the problem outlined above has been approached and surmounted by different types of offices.

The discussion will be opened by Peter

Sir Anthony Eden

Sir Anthony Eden has accepted the Council's nomination for election as an Honorary

Honorary Associates

Sir Thomas Handley Page and Pembroke Wicks, Registrar, ARCUK, have accepted the Council's nomination for election as Honorary Associateships.

Architectural Copyright

An architect who is commissioned to do work for a local authority retains the copyright for that work. The RIBA Council say this is the decision they have reached

after correspondence with the county and city borough architects' societies. They say that any transfer of ownership should be the subject of a separate agreement, or a clause in the main agreement, and should involve some consideration additional to, and separate from, the architects' remuneration for the world as covered by the appropriate Scale of Professional Fees propriate Scale of Professional Fees.

Heating Study

The RIBA has been invited by the Institute of Fuel to join in a study of "domestic heating in the United Kingdom," which will be held in May next year.

Testing of Materials

The RIBA is to become a subscribing member of the Joint Committee on Materials and their Testing. This Committee has undertaken to serve as the UK agent for liaison with the International Conference on Nondestructive Testing of Materials.

FUEL

Storage in Flats

A joint committee of five members of the London Regional Committee of the Coal Utilisation Council, and five from the London Branch of the Institute of Housing

London Branch of the Institute of Housing has been formed to enquire into the problems of fuel delivery and storage in blocks of flats. There is no architect on the committee. The chairman is Lionel G. Locket, who is also chairman of the London Regional Committee of the CUC.

The committee will consider the manual difficulties of getting in and handling the fuel, and the structural problems of design of storage places, lifts, stairs and passageways so that delivery can be effected speedily and cleanly. Both existing dwellings and proposals for future construction will be taken into account. taken into account.

taken into account.

The committee will also explore the possibility of preparing a code of practice which will assist the coal industry, owners, tenants, architects and managers of blocks of flats. They have noted the fact whilst rigid codes of practice must be adhered to before electricity and gas can be received from the coal merchant has no enforces. supplier, the coal merchant has no enforce-able code of practice to ensure that there are proper arrangements for handling and stor-

ing solid fuel.

A report will be prepared and published.

Communications from interested parties which will assist the committee in its work will be welcomed and should be addressed to the Secretary, A. Burton-Stibbon, Coal Utilisation Council (London Region), Artillery House, Artillery Row, London, S.W.1.

IWA

" A Major Triumph"

Only 80 miles of the country's canals are to be abandoned, and not 771 miles as recommended earlier in the year by the Board of Survey which was set up to inves-

tigate the position of our inland waterways. Robert Aickman, the vice-president of the Inland Waterways Association, which op-posed the findings of the Board of Survey, says that "the reduction of the abandonsays that "the reduction of the abandon-ment programme . . represents a major triumph" for the Association, and that it also represents a triumph for "public opinion, and an imaginative outlook over interests that are self-seeking, bureaucratic, and, above all, rooted in the past."

The 80 miles of canal which the British

Transport Commission proposes to abandon includes the Kennet and Avon and

two short sections of the Nottingham and Walsall Canals.

Mr. Aickman says that: "The Commission's proposal to abandon the Kennet and Avon as a navigation is put forward in an ingenious and complicated way, which, among other things, is undoubtedly intended to cause confusion and to make opposition as difficult as possible. The fight for the Kennet and Avon is likely to be a main preoccupation for our Association during the next twelve months.

"It is now almost certain that the Government will now institute a further, and doubtless more independent, inquiry into the future of the inland waterways in general. Our Association considers that the case for a National Waterways Conservancy is unanswerable and already established; and that such an organization should be brought into being forthwith. The efficacy of a further public inquiry will be almost entirely related to the terms of reference and to the

persons making it, "It seems plain that although a major victory has been won, the final achievement lies some distance ahead; and that unremit-ing advocacy of the new Conservancy will be required of us for some to come. We shall need not only ourselves to lay the case before the inquiry, but also to persuade others to support it. All this will require substantial funds, as, of course, will resisting the proposal to abandon the Kennet and Avon."

ARCUK

Architect's Removal from Register.

A. E. McCarthy, of London, has been removed from the Register of ARCUK for disgraceful conduct, and has been disqualified for ten years. The Discipline Committee in their report on the facts state that the Respondent, Mr. McCarthy, acted un-professionally in breach of Principle VIII of the Code of Conduct by assuming a position in which his interest was in conflict with his professional duty, in that on the one hand he purported to act as agent for a firm of builders, Messrs. H. J. Riche & Son Ltd., and to receive a deposit on their behalf but nevertheless claimed a Mr. Key as his client whenever it was convenient to do so and eventually asserted that the deposit received by him ostensibly on behalf of the builders represented professional fees due to him as an architect, no such fees in fact being due to him. The Discipline Committee also state:

The Respondent is also in breach of Principle I of the Code of Conduct in that, claiming Key as his client, he failed to disclaiming Key as his client, he failed to dis-charge his responsibilities, particularly in his failure to convey to Key the information he received in the letter from H. J. Riche & Son Ltd., Builders, on June 24 and at his interview with Evans, a director of the Company, that the Lambeth Borough Council had resolved to make a compulsory purchase order, that negotiations with Dulwich Order, that negotiations with Dulwich College Estates had in consequence been interrupted, and that the builders would have nothing more to do with the job, notwithstanding which the Respondent proceeded to correspond with his client as if nothing had occurred to interfere with the due progress of the work. His concealment of assertial information can only be reasonable by of essential information can only be garded as a deliberate attempt to mislead his client, the gravity of which was enhanced by his subsequent refusal to return the deposit of £240.

The Respondent is also in Breach of Principle II of the Code of Conduct in that while claiming Key as his client he agreed accept payment of his fees by the

builders.

The Respondent, states the Committee's report, has been guilty of conduct disgraceful to him in his capacity as an architect in re-spect of each of the matters set out in the preceding three paragraphs.

TCPA

National Conference

A National Conference was held recently at County Hall, Westminster, on "Changing Britain." Arranged by the Town and Country Planning Association, the object of the conference was to be a forum for exchange of views on how ideas on town and country planning and means of communication could be integrated.

The Conference was in two sections: the first dealt with different methods of trans-port, and the second with the effect of transport on location of industry and popula-

The Conference was opened by the Joint Parliamentary Secretary to the Ministry of Transport and Civil Aviation, T. D. Profumo. In his opening address, Mr. Profumo suggested helicopters are not likely to be of use to crowded Britain for some time, and that he felt that it would be another five years before helicopters would be able to hover and land as required on economical scheduled services. In announcing the pub-"The Design of Roof-top Stations for Single-engined Helicopters," he inferred that single-engined helicopters are uneconomical scheduled services and suggested that roof-top stations should be designed for two-engined machines when they are avail-The main disadvantage of helicopters is noise, and if this cannot be tolerated people will have to endure the delays of present transport systems for at least another five years, by which time it is hoped that an efficient silencing device will have been produced.

The JOURNAL will comment next week on the papers given at the Conference.

COMPETITION

Date Postponed

The closing date for the international competition for architects and engineers which is being organized by the Working Committee of the Sanctuary of the Madonna delle Lacrime, Syracuse, for the construction of the sanctuary and adjoining buildings has been postponed from April 30, 1956 (as announced in the JOURNAL for September 8, 1955) to October 31, 1956. The reason for postponing the date is that discussions are still going on amongst the various bodies concerned regarding the terms of conditions.

HOUSING

Figures for October

In October 27,336 houses were completed in Great Britain. During the same month last year 31,518 houses were built. In the first ten months of 1955, 260,671

houses were completed.

CORRECTION

On page 713 of our issue for November 24, 1955, in the cost analysis for the secondary school, Herne Bay, Kent, the total cost per sq. ft. and the cost of built-in fittings were incorrectly shown. The correct figures are incorrectly shown. The correct fig. 58s, 10.61d, and 3.81d, respectively.

How much are we really in control of the things with which we surround ourselves? In a recent broadcast on the BBC Third Programme, entitled "The Snare of Fashion: Or Watch Your Furniture" which is published below, 7. M. Richards discussed changing fashions and the human tendency to accept them unquestioningly.

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THE SNARE OF FASHION

By J. M. Richards

The other day I overheard a rather eerie snatch of conversation. I was visiting a wallpaper exhibition, and found myself standing next to a voluble lady who was talking to one of the organizers. I distinctly heard her say: "Yes, isn't it remarkable how plain distemper has gone out in the last few years and patterned wall-papers have come in? . . . I've noticed it in my own

This naturally set me wondering how much that sort of thing happens-without our being aware of it, perhaps-to the rest of us; how much we're really in control of the things with which we surround ourselves. Did I buy that Regency sofa I sit on every day in my flat, or did it just come in? Is that lithograph by Graham Sutherland that I know I've had on the walls for a long time but haven't actually looked at lately still there, or has it gone out, without my noticing, and been replaced by something more up-to-date? It set me remembering the number of times I've looked into the windows of one of the smarter departmentstores, or the pages of one of the shinier magazines, and said to myself: "that's a clever design; we'll all be having one of those soon "-imagining I meant that we should consciously set about acquiring one; not realizing that I had unwittingly come near to expressing a profound truth, a truth which the good lady at the wall-paper exhibition hit upon exactly.

We are the victims of changes of taste and fashion, and things come and go, in and out of our lives-and indeed in and out of our flats and houses-whether we like it or not. They use us quite as much as we use them. Take, for example, indoor plants-though really you don't have to take them because they have probably already taken you. Can you honestly recall when and on what occasion you decided to admit these creatures into your home? Of course you can't. Yet there they are, trailing all over the mantelpiece, climbing up and down that bamboo trellis affair, twining themselves round the ivory-coloured telephone and the wickerwork lampshades, simply because they came in. And are you planning to do anything about them? No, because you are perfectly

well aware that one day they will just go out.

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The wheel of fashion, in fact, revolves of its own accord. You can see it revolving fastest, I suppose, in those admirable new coffee-bars that have lately sprung up in such numbers in London-in the West End and Kensington and Chelsea. Architects and decorators may think they design them, but it seems clear that the newest devices in the way of furniture and decoration come into, and go out of, these places more or less as they please: not only the indoor plants-which climb higher and grow faster in coffee-bars than in the most susceptible private apartments-but many other things as well: the legs of all the chairs and tables are suddenly found to terminate in small coloured knobs, old engravings are found imprinted in the table-tops and the same shaggy table-mats and striped pottery sugarbasins appear everywhere. They not only come and go; they follow you around from one coffee-bar to another. So, it often strikes me, do many of the customers, but that's another story.

Now, it's all right for these fashions in furniture and decoration to jump so nimbly from coffee-bar to coffee-bar-that's what has established their rather endearing personality-but what happens when they take to following us home, which they have undoubtedly begun to do? If you don't watch out you'll find them following you into your home. Look now, and see if one or two chairs with shaped plywood seats with a sort of oval aperture where seat meets back haven't already crept in and elbowed aside those plain functional chairs of tubular metal and canvas that you were so proud of when they first came in. And that Italian wine-flask with a tuft of straw in its mouth; isn't it occupying the very place on the sideboard that belongs to the artistic Swedish engraved glass jug that only a few years ago you felt was such a justifiable extravagance to invest in? " A thing of beauty," you only just restrained yourself from observing, "is a joy for ever." But already it has gone out. In fairness I should say that it isn't only from the coffee-bars that these fashionable intruders come. We notice them lying in wait for us there because the coffee-bars are themselves so new that they constitute a kind of shop window of up-to-date ideas. But these intruders come from all kinds of places, probable and improbable-Victorian gardens as well as American departmentstores; the cabins of yachts as well as the studios of Scandinavian craftsmen-the significant thing is that when the magic moment arrives they come under their own power. Fashions take charge without our being really aware that it's happening. The question is whether we ought to feel alarmed about it.

Now there have always been changing fashions-as well as a human tendency to accept them unquestioningly. We can safely assume that our grandparents had much the same experience: a slightly oriental flavour would appear uninvited in their china-cupboards just because that absurd little man Whistler had started a vogue in Chelsea; and at other times it would be heart-shaped

apertures pierced in the backs of chairs and settees, or tapestry cushions with tassels at the corners lying about all over the place. But that didn't seem to prevent the home remaining the citadel of all that was most personal and private, because the new fashions were assimilated cautiously and even more reluctantly discarded. What makes one uneasy nowadays is not that the changes happen, but that they happen so quickly. Things come in and go out again, and don't stay long enough to give us a chance to make them really ours. Instead of our rooms reflecting our personalities, it is we who have to live up to the successive personalities our possessions take it on themselves to display.

But perhaps the conception of the home as a private place in which the individual is sheltered from everyone's world but his own is out-of-date anyway. Has it not already been invalidated by the radio and television, which bring the doings of the world into our very parlours? Perhaps to sit by the fire and watch the variegated world of fashions in furniture, decorations, household goods and household gadgets come and go is but a logical extension of the habit we have already formed of permitting radio entertainers to share the intimacy of our homes and welcoming without surprise all kinds of celebrities to our firesides. We don't expect it to be our choice who comes in and who stays outside. We switch on and see who's there. Ours is now the passive part, and just as our homes are now furnished for us with radio drama and instruction; so by some equally magical process are they also being furnished with solid objects, representing not our taste but somebody else's. They will become our taste one day, as the most outlandish fashions do when we have become accustomed to them. But they're not our choice initially. They're brought quite unasked into our lives and it takes determination and obstinacy to maintain our individuality in the face of them.

Of course we can just refuse to be fashionable: shut off our television sets, cancel our subscriptions to the glossy magazines and live in a world of our own choosing-up to a point. But the situation is complicated by the fact that besides the wheel of fashion that is constantly bringing along new styles and new devices of all kinds, there is another wheel of fashion that is bringing back the only styles and devices we have long ago discarded. These two wheels, placed side by side, constitute what is called the cycle of

Now fashion has always been concerned with revising dead styles as well as promoting new ones, but in the past the revival has taken place only after a decent interval. Lately, this process, too, has been speeded up. The cycle of taste has been made to travel faster and faster. As often as not the revived fashion comes in-at least in sophisticated circles-before the original fashion has gone out in the more conservative circles. While you are still making up your mind to relegate that bamboo table or that fretwork overmantel to the lumber-room, the people across the way are buying pieces very like them from astute furniture-dealers in King's Road, Chelsea. They may not

use them in quite your way; most likely they will enamel them white and stand them against a strongly patterned wallpaper, leaving the remaining walls of their all-purpose living-room plain, or find some other means of giving them the self-conscious air of the period piece.

Nevertheless, it is decidedly confusing when objects are thus cast to play two roles at once-when they not only come in and go out in the self-willed manner I've already described, but when the same things that have once gone out come in again wearing, as it were, a different smile on their faces. It makes it even more difficult to fight against the whole system. You can try. By exercising constant vigilance you can notice every time anything fashionable introduces itself into your home, and resolutely throw it out, substituting something quite indistinguishable from what you have always had, and by this means you can at least preserve the status quo. But I fear you will be walking into a trap. The moment will come when the belongings you have been so assiduously conserving for the reason that they are harmlessly out of date, will themselves return to fashion, and you will find that it is your possessions that are the most voguish of all. While you were occupied keeping watch against strangers, your old friends have gone over to the enemy.

So you can't hide away from the cycle of taste. It will catch up with you somehow. It's better to conform, which is made easy nowadays. No need to watch the magazines, the stores, the back-grounds to the fashion advertisements or the newest coffee-bars. Watch your furniture. Spot each unfamiliar piece as it comes in and you'll know what the wheel of fashion is bringing up this time. And as for the pieces that go out. Don't worry about them. They'll be back.

DIART

The Motorway and its Environs. Talk by Sir E. Owen Williams. At the RIBA, 66, Portland Place, W.1. 6 p.m.

JANUARY 10

The Housing Repairs and Rents Act. Paper by J. Clancey, Chief Inspector Public Health Department, LCC. 10.30 a.m. Slum Clearance. Paper by D. J. E. Lamb, Chief Housing Inspector, Birmingham. Grants for Improvements and Conversions. Paper by J. E. Austin, Chief Housing Officer, West Ham. 2 p.m. At the RSH, 90, Buckingham Palace Road, S.W.I.

JANUARY 11

A New Approach to Furniture Construc-tion. Talk by T. Kotas and Robin Day. At the RSA, John Adam Street, W.C.2. 2.30 p.m.

JANUARY 11

Development Plans and their Provision for Industry. Talk by S. G. L. Beaufoy, F.R.I.B.A. At the RICS, 12, Great George Street, S.W.1. 5.30 p.m.

JANUARY 17

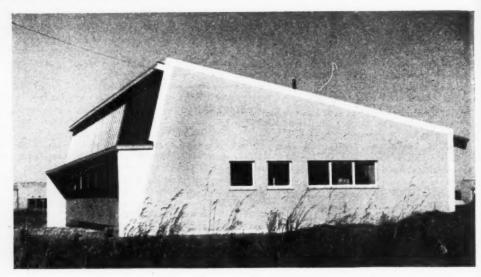
Jane Drew, F.R.I.B.A. S.E. Soc. of Architects meeting at The Studio, 1, Edridge Road, Croydon. 8 p.m.

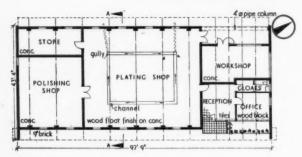
JANUARY 17

BUILDINGS IN THE NEWS

Factory, Salisbury, S.R.

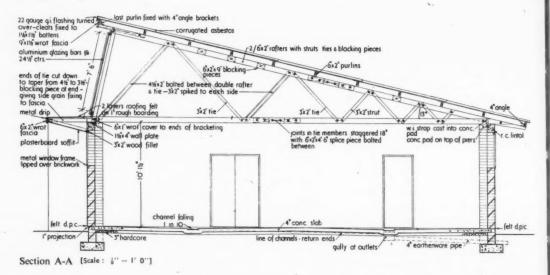
This small factory in Ardbennie Township, Salisbury,
Southern Rhodesia, was
designed by Montgomerie
and Oldfield. The building
which is 97 ft. by 43 ft.,
consists of a chromium-plating shop centrally placed,
flanked by a polishing shop,
store, workshop, reception
room and office. There is





Ground floor plan [Scale: 18" = 1' 0"]

additional storage space over the reception room and office, approached by a cat ladder in the plating shop. On the south-west facade, (see top of page) the wall is of fair-faced brickwork with timber windows, above which is aluminium patent glazing and painted corrugated asbestos sheeting in 8-ft. lengths. The 13° pitched roof is also finished with corrugated asbestos on timber trusses at





10 ft. $2\frac{1}{2}$ in. centres. On the south-east facades, (see photograph on the left), the walls are of fair-faced common brickwork painted with cement paint and with a plastered surround. The floor area, including the upper level storage space, is 4,174 sq. ft. and the cube is 64,800 cub. ft. The total cost was £4,416, which is 21s. 2d. per sq. ft. and 1s. $4\frac{1}{2}$ d. per cub. ft.

Offices in Alfred Place, W.C.1

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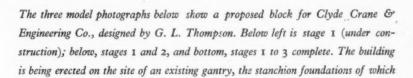
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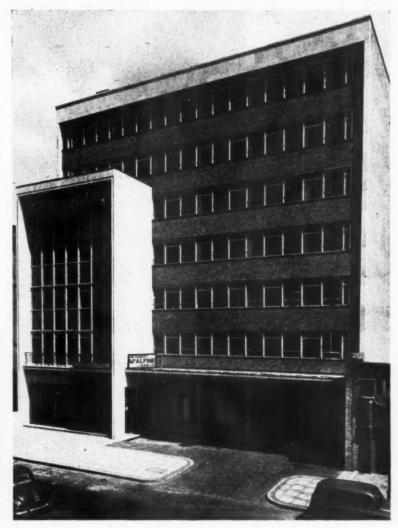
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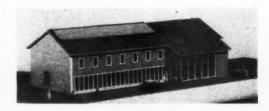
Remax House, designed by Huckle and Durkin, has recently been completed on the east side of Alfred Place. The building is divided into two parts; the basement, ground floor and first floor provide 17,850 sq. ft. of storage space for the clients, who are manufacturers of automobile components, and on the upper floors are offices with an area of 19,350 sq. ft. The west elevation, seen right, has purpose-made metal windows, and buff Ibstock facing bricks in a stone surround. Below, the main entrance hall and enquiry desk. The contract was by agreed schedule of rates and the estimated final cost is approximately £152,000. The general contractors were Sir Robert McAlpine & Sons Ltd.







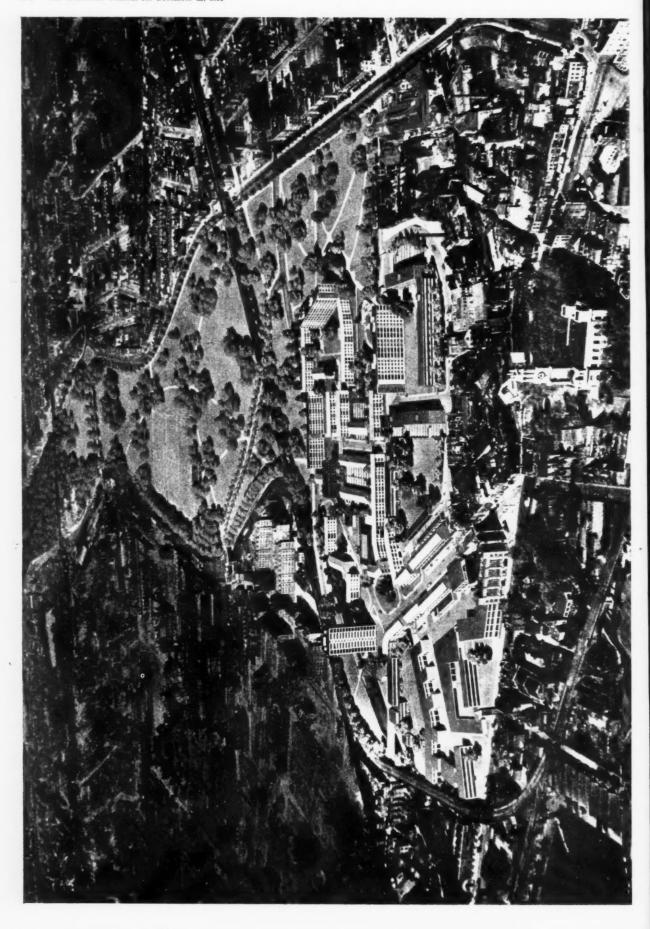
Proposed Offices in Glasgow



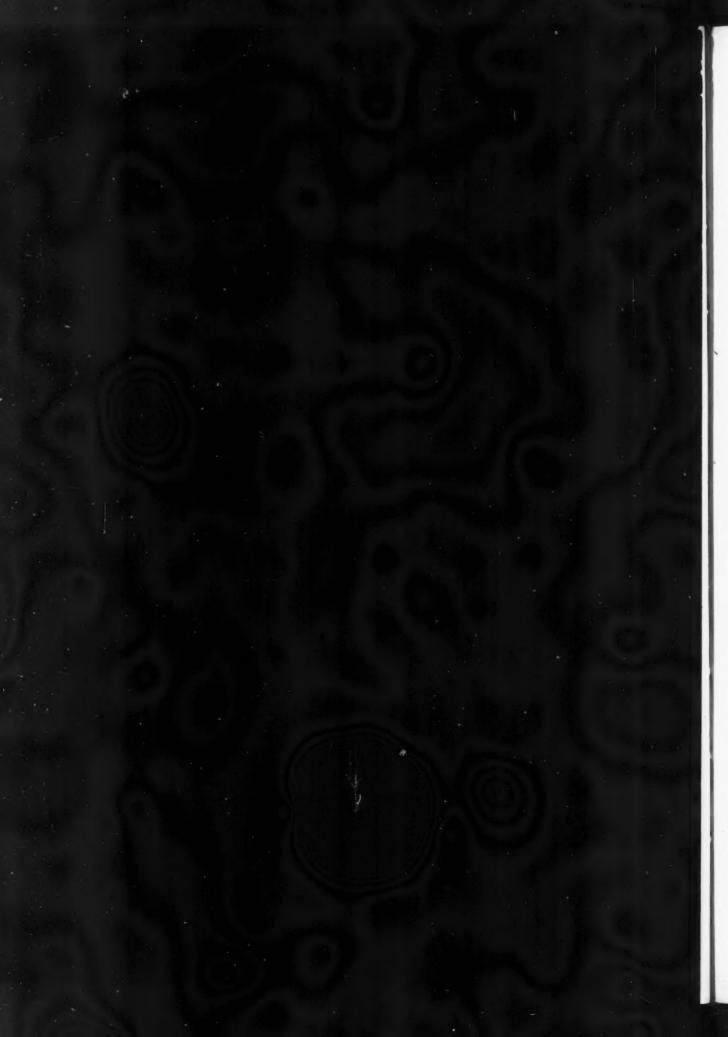




are being used in conjunction with ground beams to carry the new superstructure. Practically no foundation excavations will be necessary. The offices are to be airconditioned and there will be double-glazed fixed-light windows throughout.







development was suggested in the County of

areas in Stepney and Poplar as one comprehensive Country Planning in 1947. The necessary powers ment has been proceeding in stages in the other The reconstruction of the extensive war-damaged confirmed by the then Minister of Town and Exhibition of the Festival of Britain. Developto acquire land were then granted. In 1951 the London Plan and, after it had been adopted first stage of the Lansbury Neighbourhood was in principle by the Council, was subsequently completed and formed the "Live Architecture"

neighbourhoods since that time and work is now in progress in the St. Anne's Neighbourhood in Stepney, illustrated on the following pages.

RE-PLANNING ST. ANNE'S NEIGHBOURHOOD, STEPNEY

The reconstruction area includes part of three communities-Stepney, Poplar and Bow-and covers a total area of 1,945 acres, of which 1,312 acres are in size from 2,200 to 10,700 people each, as far as Neighbourhood will ultimately occupy an area of 42 architect to the council, J. L. Martin, assisted by the subject to compulsory purchase. The area is being replanned as a series of 12 neighbourhoods, varying possible with its own schools, local shopping centres, open spaces and community buildings. The boundaries of neighbourhoods have been largely dictated by existwhich is the reason for individual neighbourhoods varying considerably in size and character. St. Anne's The planning of the Neighbourhood Unit and the constructional work are under the direction of the ing barriers such as main roads, railways and canals, acres, of which 17 will be redeveloped in the first stage.

Planning Division: A. G. Ling, Senior Planning Housing Architect; M. C. L. Powell, Assistant Prin-Officer (until May, 1955); L. W. Lane, Senior Planning Officer (since May, 1955); P. Johnson-Marshall, Reconstruction Group Planning Officer; W. G. Bor, Architect/Planner in Charge; H. N. Allen; P. McKay. Housing Division: H. J. Whitfield-Lewis, Principal cipal Housing Officer; E. Humphrey, Architect in Charge; A. W. Butler; J. W. Parsons; Miss C. A. Fortlage.

Other aspects of the work are under the direction of the following:

New roads and road improvements: Chief Engineer, J. Rawlinson; Acquisition of land and clearance: Valuer to the Council, J. E. J. Toole; Open space and general landscaping: Chief Officer of the Parks Department, L. A. Huddart.

General character of the neighbourhood

Road, on the south-east by Limehouse Cut, on the Grand Union Canal and the railway. The original development consisted mainly of working class houses erected about 1870 and having almost a village character. Those that remain (after bombing) are mostly The neighbourhood is bounded on the east by Burdett south by Commercial Road, and on the west by the

irrational and wasteful of land. The land is almost obsolete by modern standards. The road network is flat, except for a slight slope from north to south.

Flats, maisonettes and houses will be built at a density of 136 persons per acre and will provide accommodation for 1,630 persons in the first stage and 2,200 in New residential development





1. Empire Memorial

Above: aerial view, looking north, of the area which is to be developed, bordered by Commercial Road in the foreground, the railway viaduct on the left, Mile End Road running across the top, and Burdett Road on the right. Left: map showing first stage of development of the

> 2. LCC District Offices and Hostel). and depot.

Primary School 4. St. Annes C.E.

Neighbourhood.

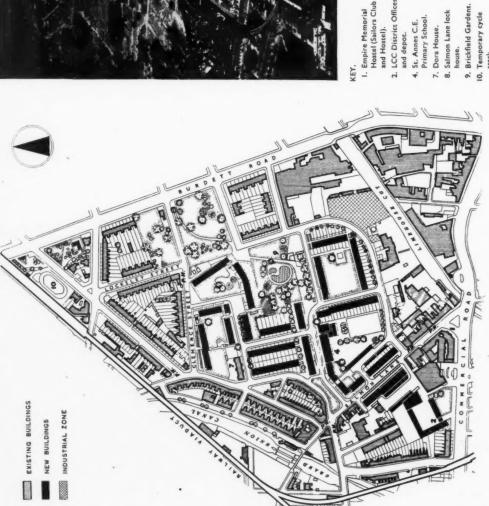
8. Salmon Lane lock

10. Temporary cycle

the complete scheme. The height of the buildings is mostly being kept low in order to retain the basic scale and character of the area. The layout of the neighbourhood will be composed of individual housing groups, each having its own special character. Two of

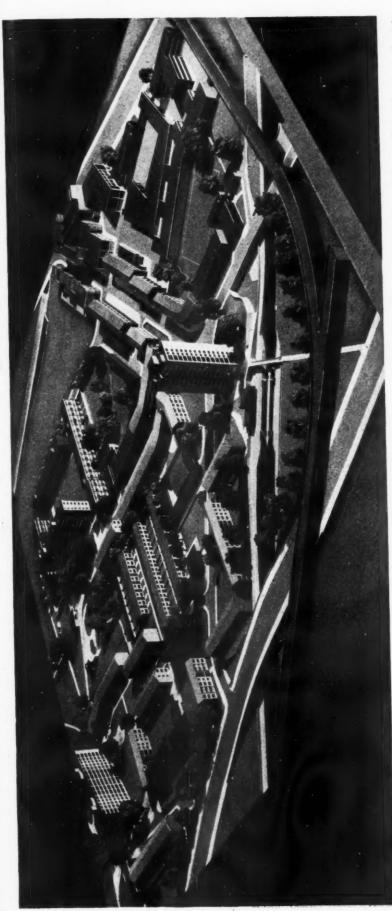
these will be squares, formed round eight-storey blocks and including, in one case, three-storey blocks of flats, and in the other, four-storey maisonettes with private gardens. A third group consists of a shopping street off Salmon Lane, which is given emphasis at its north-

situated just outside the neighbourhood. There will be west end by a 15-storey point block, and at the southeast by the tower of St. Anne's Church, Limehouse, a series of three-storey blocks along the bank of the Grand Union Canal and the individual groups will be



off Salmon Lane, which is given emphasis at its north- Grand Union Canal and the individual groups will be

groups, each having its own special character. Two of off Salmon



Above: general view of the Neighbourhood from the northwest. The railway viaduct in the foreground is an existing feature; the banks of the Grand Union Canal, beyond linked by short streets of two-storey cottages with private gardens and three-storey flats.

Shops

The established shopping centre in Salmon Lane, which was considerably damaged during the war, is to be largely rebuilt in the first stage of development. The scheme will provide shops along the Salmon Lane frontage with servicing facilities and garages at the rear. There will be maisonettes above the shops.

Public buildings and schools

A site is being provided in the layout for a new

it, will be developed as an open space. The point block in the centre, which is similar to those under construction at Roehampton, is a 15-storey block with four Methodist church to replace the Edinburgh Castle Mission, which is affected by the proposals to extend King George's Fields open space. Three schools are to be built, St. Anne's Church of England Primary School, Our Lady Roman Catholic Primary and Nursery School and Locksley Street Nursery School. The first of these schools is to be commenced in stage one.

Open space

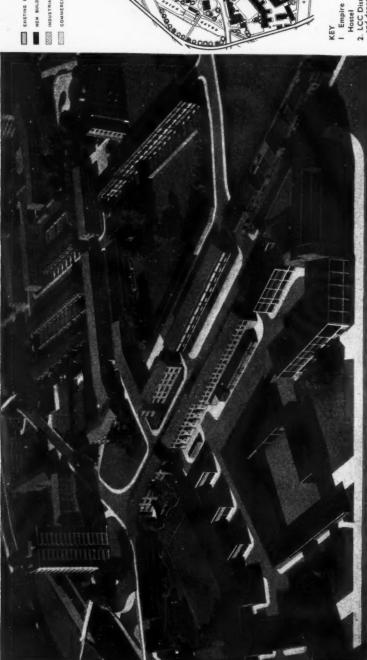
In the first stage of the development the proposals include the layout of approximately 2½ acres of open space, which will eventually be doubled as further land is acquired. A small area of open space along the

3-room flats on each floor. The main road to the right behind this block is Salmon Lane, the shopping centre, which runs into Commercial Road by the Sailors' Club Hostel.

banks of the Grand Union Canal is to be provided and it is considered that this area, together with the canal itself, will form an attractive setting for the 15-storey point block.

Industry and commerce

Within the area reserved for commerce in the southwest corner of the neighbourhood, it is proposed in the first stage to erect district offices and a maintenance depot for the Housing Management Department of the Council. The remainder of the area is likely to be used to re-accommodate commercial undertakings displaced elsewhere, but will not be developed



Above : the south-west corner of the Neighbourhood from the south. In the centre is Salmon Lane, the main shopping street, or the left are the District Offices, and behind



the existing Sailors' Club and Hostel, at the corner of them is the Our Lady RC Primary and Nursery School. In the foreground is the four-storey extension to

Limehouse Cut has been zoned for industrial use and in the first stage. An area on the north bank of the already contains a number of existing industrial premises.

Roads

part of the neighbourhood, forming a link between the proposed roundabout approach to the Rotherhithe Tunnel and Burdett Road. Commercial Road is to to certain minor roads. The existing wasteful road A proposed 70-ft, wide road will traverse the northern be widened to 100 ft, and improvements are planned network is being largely replaced by a simpler and



I Empire Memorial

3. Our Lady RC Primary and Nursery School 4. St. Annes CE Primary 2. LCC District Offices 5. Edinburgh Castle and depot

9. Brickfield Gardens

8. Salmon Lane lock

6. Nursery school 7. Dora House

Commercial Road and Salmon Lane. Above: map showing ultimate layout of the Neighbourhood. Below left: key map to housing groups.

more economical layout. It was possible to do this ment to serve the new development. A number of because most of the existing services needed replacethe more important existing roads are being retained, but a good deal of land is being gained for redevelopment by the use of a simpler road network.

Stages in the development

also financial considerations. The reconstruction is to The principal factors in deciding the stages in the reconstruction were the amount of cleared land available, the age and condition of buildings still remaining, and be carried out in four stages; the first stage, which in-

DISTRICT OFFICES

Pypical floor plan eight-storey flats

seen from the north. Group A consists of a five-storey block of flats, in the foreground, and two three-storey hve-storey block of flats. Left: a close-up of housing group B. This group consists of an eight-storey block of flats, left, and a three-storey block, centre. In the background is group D. The open space between the groups is Brickfield blocks. On the extreme right is Dora House, an existing Above right: housing groups A (on the right) and B (left)

by Clemence Street on the north and has new open Group B, which is irregular in shape, is also bounded There will be an eight-storey block on a north-west to space on the east and Brickfield Gardens on the south.

provide housing for about 1,630 persons. The first stage will also include 24 shops, positions for movable market stalls, a primary school for 320 children, the cludes about two-thirds of the neighbourhood, will district office and maintenance depot and 2½ acres of open space.

to west. The living-rooms of the tall block will face

south-east axis and a three-storey block running east

south-west over an open space formed by the angle of

the two blocks, and the three-storey block faced south over Brickfield Gardens. The central feature of the landscaping scheme for this group will be a children's play sculpture set in a sand pit in front of the eightfigure in concrete on a metal framework. The accommodation will consist of 8 one-room type flatlets,

storey block. The sculpture will consist of a reclining

Housing groups

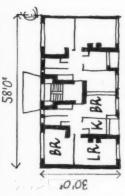
The development of the first stage can be divided into five groups, each with its own special characteristics. Group A is on a rectangular site, bounded on the north by Clemence Street, on the east by a service road, on the south by Dora Street and on the west by Rhodeswell Road. There will be three blocks of flats, forming three sides of a square. The northern block will be five-storeys and the other two will be three-storeys, with footpath connections round and across the square. There will be a group of tenant's stores located south-east corner. (In the south-west corner of the area The new flats will include 5 one-room type, 15 twoin the north-east corner and a sunken terrace in the is an existing five-storey block of flats known as Dora House, belonging to the Stepney Borough Council.) room and 44 three-room.



also financial considerations. The reconstruction is to be carried out in four stages; the first stage, which in-

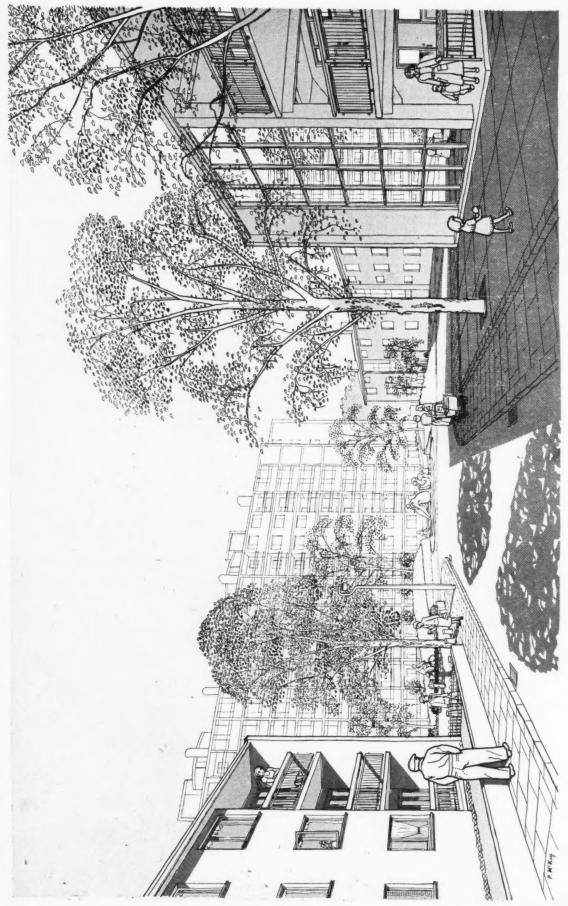
to certain minor roads. The existing wasteful road

network is being largely replaced by a simpler and



Typical floor plan of three-storey flats

The rectangular-shaped site for Group C is bounded the east, by a new road and the primary school on the south and by Rhodeswell Road on the west. This group also be three-storey flats on an east-west axis. Accommodation will include 18 two-room type flats, 24 threeby Dora Street on the north, Brickfield Gardens on will include terraces of two-storey houses, each with four bedrooms and with private gardens. There will 16 two-room type and 56 three-room. room type and 32 five-room houses.



Housing group B, seen from the west. In the centre is the eight-storey block, in front of which is a children's play sculpture set in a sand pit. On either side are blocks of 3-storey flats.

sculpture set in a sand pit. On either side are blocks of 3-storey flats.



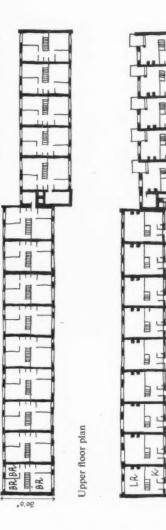
First floor plan

16,0"

35.0"

Above: the centre of the Neighbourhood from the north. In the background is Salmon Lane with the three-storey maisonettes over shops, which forms the western boundary of housing group E. The two-storey terrace houses in the foreground belong to group C. The low building in the centre is a new Methodist church, replacing the Edinburgh Castle Mission.

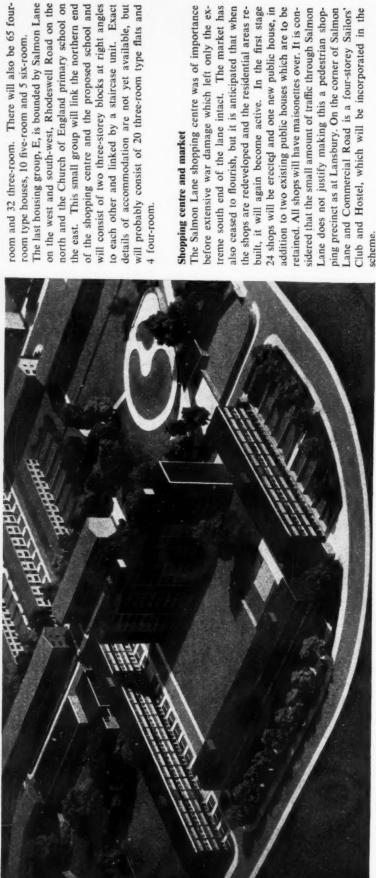
Group D is bounded by Brickfield Gardens on the north, by the industrial zone on the east and south and by the new primary school on the west. The housing is grouped in a square with an eight-storey block on the north side and four-storey maisonettes with private gardens on the other three sides. The square will be turfed and will contain a playground. Accommodation to comprise 8 one-room type flats, 16 two-



Lower floor plan, three-storey maisonettes over shops

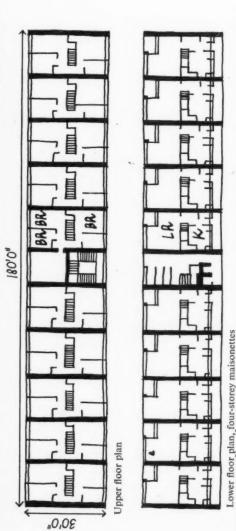
.265'0"

Ground floor plan, two-storey houses



The last housing group, E, is bounded by Salmon Lane on the west and south-west, Rhodeswell Road on the north and the Church of England primary school on the east. This small group will link the northern end of the shopping centre and the proposed school and will consist of two three-storey blocks at right angles to each other and linked by a staircase unit. Exact will probably consist of 20 three-room type flats and The Salmon Lane shopping centre was of importance before extensive war damage which left only the extreme south end of the lane intact. The market has built, it will again become active. In the first stage details of accommodation are not yet available, but also ceased to flourish, but it is anticipated that when the shops are redeveloped and the residential areas re-24 shops will be erected and one new public house, in addition to two existing public houses which are to be retained. All shops will have maisonettes over. It is considered that the small amount of traffic through Salmon Lane does not justify making this a pedestrian shopping precinct as at Lansbury. On the corner of Salmon Lane and Commercial Road is a four-storey Sailors' Club and Hostel, which will be incorporated in the Shopping centre and market 4 four-room.

showing housing group D formed by the square with the eight-storey block on the north side and the four-storey Above left: the south-east corner of the Neighbourhood, maisonettes on the other three sides. The turfed area in the centre contains a playground.



ower floor_plan, four-storey maisonettes



The amount of specialist and sub-contractor's work in the average contract has increased in the last few years to such an extent that it may account for half the contract sum. This week in their series on the building contract, the Guest Editors (Costs) describe the technical background to this change, and consider the problems of procedure and control that arise from it. This is the eighteenth article in the year's series.

THE COST OF BUILDING

THE BUILDING CONTRACT: 4

SPECIALISTS IN THE BUILDING INDUSTRY

Specialist sub-contracted work presents one of the most difficult problems in present-day contractual procedure. Since the war it has increased to such an extent that it now frequently constitutes a greater proportion of the contract than the builder's own work. The reasons for this remarkable change, and the stresses that arise in the attempt to conduct and control it within the framework of the normal competitive contract, we discuss below. Scientific knowledge-the starting point of more recently founded industriesonly began seriously to penetrate building after the first world war, but already it had transformed the technique of design and greatly extended the range of building methods available. For a hundred years or more the industry has absorbed only very slowly the effects of the industrial revolu-

tion. First, in the use of machinery for joinery and brick and tile making, and in the use of iron and steel and later of reinforced concrete. And later still in the development of heating, electric lighting and sanitary services. The years which followed the two world wars, each in turn, gave a great impetus not only to the volume of building and to the increasing variety of new building types required, but also to the complexity of individual buildings and to the development of fittings, appliances and mechanical installations incorporated into buildings. These were brought about partly by new technical possibilities and partly by the higher standards of comfort and convenience demanded. Hence the entry of piped hot water supplies, sanitary fittings, heating methods other than the open fire, gas and

90% 80% £200,230 LONDON 70% NOGNO £100,3 NODNO £ 200,000 z 60% FACTORY z COUNTIES NOGNO ONDON NOT Z 50% AREA STORY DINC LONDON OUTSIDE 40% BUL LONDON MANUFACTURING OM. z STORAGE Z Z HOOL SCHOOL PART FLATS Z NOT 20% FRAMED ECONDARY ECONDARY 9 SECONDARY w OFFICES 10% PART

Shaded portions show the proportion of cost taken by prime cost sums. These in the main represent architect-nominated sub-contractors and suppliers.

electric lighting. Later on came lifts, which, together with steel or concrete frames, made much higher buildings a possibility. Later still came mechanical ventilation and air conditioning, and fire warning and protection systems.

Nearly all these newcomers originated from developments outside the building and architectural world; nearly all of them resulted from extension of scientific knowledge in the later 19th century, and nearly all of them were manufactured by methods very different from those used in the production of traditional building materials. Hence they were from the start, in the hands of "specialists" -using the term in its widest sense. The extent to which specialists are now involved in building work is very considerable; their work frequently ranks as a major proportion of the total. For example, a cost analysis of the LCC eleven storey point blocks shows that the "services" element represents 24 per cent of the total. Likewise analyses of schools published in the JOURNAL show that an average of 19 per cent is spent on services.* Specialisation has not only occurred in non-traditional methods and equipment, however. There has been a corresponding tendency for traditional trades to return into the hands of separate firms who do only plastering, or joinery, glazing or painting, and roof tiling.

A BRS survey of productivity made in 1953 showed that on housing, sub-contractors of this kind generally achieved a greater output than a general contractor doing the same work. It seems that efficiency is more easily attained where a limited variety of tasks is involved. It is worth noting here that specialization has developed to a much greater degree in the United States, where, for example, a joinery works may concentrate wholly on drawers for kitchen cabinets or a concrete beam manufacturer will make only one size of beam. Even the traditionally versatile architect is tending to specialize on particular building types such as schools and factories. The picture that merges from all this is of an industry that is rapidly sub-dividing into an ever greater number of separate techniques, many of which have formed development associations to advance their knowledge and for technical co-ordination. Building then, is a considerably more complex affair than it ever was before-so that-as O. J. Masterman pointed out in his article (AJ October 20)-the architect requires the aid of specialist knowledge to help work out his design, in detail, and the builder finds himself becoming more and more a coordinator of specialists, each the exponent of a particular technique, fitting or material. Thus both the architect and builder are coordinators each of their own teams-the one for design, the other for erection and assembly. But they still try to marshal their teams within the framework of a contract procedure that was really evolved for days when the architect did all the designing, and the builder did all the building.

To consider the specialist problem in detail, we distinguish between three different groups:

1. Specialist Contractors for whose work the architect requires information and frequently

* Electrical and gas installation, heating and hot and cold water installation, sanitary plumbing and fittings.



Should the architect go to a specialist contractor...or to a consultant?

consultation at the design stage. For example, steel and reinforced concrete work, heating, electrics, plumbing, lifts, structural systems, curtain walling, certain types of partitioning, and so on. In many of these fields, specialist firms market a proprietary method or material for which it is impossible to get strictly comparable tenders, thus they have to be nominated. This kind of firm hardly existed before the war, but they are now rapidly on the increase and are likely to figure ever more largely in future construction.

2. Specialist Contractors for whose work the architect does not require detailed consultation at the design stage since most of the information he needs, although of a specialist character, is generally available. For example, asphalting, grano. and terrazzo, roof and floor finishes, tile fixing, joinery, roof tiling.

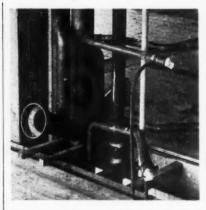
3. Suppliers of material, components and fittings. Such as ironmongery, sanitary fittings, lighting fittings, paint, ventilators, grilles, etc.

The examples of trades are given merely as an indication of each group for it is obvious that there can be no hard and fast classification of specialists.

The architect

The architect no longer possesses all the technical knowledge necessary for the de-

tailed working out of most buildings, for that knowledge has now extended over so large a range. He must then be able to draw upon specialized technical advice for design. One consequence of this situation has been the tendency to form self-sufficient design groups of architect, engineer and other specialists in local authority offices, or in a small number of private offices such as that of Messrs, Norman and Dawbarn. Groups of this kind are a prominent feature of American practice. They can only operate economically if they handle a large volume of work. Thus the majority of architects must rely upon the advice of independent professional consultants or subcontractors and manufacturers. In practice the architect's choice between these alternatives is limited to those classes of work where consultants exist-e.g., structural steel and concrete; heating and ventilation. Within this range, the capabilities and achievements of consultants vary greatly. Most prominent are the civil and structural engineers, whose technical skill has earned them a high reputation. Engineers can and do work in contracting firms and thus their theoretical knowledge is balanced by a practical approach and awareness of economic factors. There are fewer heating and ventilating, electrical or sanitary consultants; hence the contracting firms do a correspondingly larger share of the design work, and they



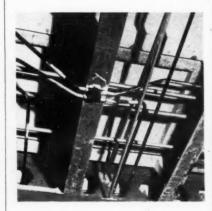
This week the Guest Editors discuss the role of specialist techniques in the building industry, such as plumbing.... LCC photo

initiate the greater part of the technical advances. It appears that where in any particular field, manufactured components such as electrical fittings, heating systems, lifts, and so on, play a big part, the independent consultant is less well placed to initiate or



. . . heating

test new developments than the contractormanufacturer. His position is indeed analogous to that of the architect himself. For this reason there are fewer consultants than the architect might wish.



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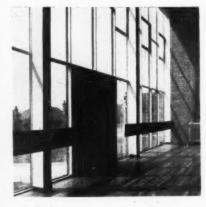
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The factors which influence the architect's choice between consultant or specialist firms are these: if he goes to a consultant, he can get competitive tenders based on the consultant's design, and he can be sure of independent advice on the technical possibilities. But he must persuade the client to pay an additional fee, which some clients



....lifts

may be reluctant to pay, although the specialist contractor would include a design fee in the construction cost. The consultant will normally supervize the work,



.... curtain walling

and in some cases check the sub-contractor's accounts. On the other hand, there are a number of consultants who have a reputation for providing unnecessarily "safe" or conventional designs. Often their schemes are not so economic as those produced by specialist contractors, perhaps because they are not under quite the same pressure as the architect in matters of cost. If the architect goes to a specialist firm, he has other problems. Some firms will have an interest in selling the material or component they use, and thus, while they may give objective technical advice, the architect cannot be sure that they are proposing the most economical scheme. He can in this case obtain a cost comparison by inviting a design from one specialist firm, and using it to get quotations from others. To do this without permission is unfair to the firm providing the design and it damages the reputation and good name of the architect. The procedure should be put on a proper basis by payment to the firm of a separate design fee.

The other course is for the architect to invite separate designs and quotations from a number of specialist contractors, e.g. electrical or heating engineers. But the schemes so produced will not be comparable, nor is the architect technically fitted to adjudicate between them. Moreover the total expenditure on design and estimating of all the firms swells the tendering costs as

The employment of sub-contractors or consultants as designers also affects the architect's own fee. Cases arise where such designs extend over a considerable proportion of the building and the architect may do little more than hand over the consultant's or sub-contractor's drawings to a builder to quote a total price including the prime cost sums involved. There should in these cases be proportionate reductions in the architect's fee. In general however the architect has considerable work to do in incorporating specialist work into a design, and the overall fee must increase with increasing specialization. But the architect does not nominate only when he wants advice or to save himself work. He may nominate a particular contractor or supplier, whose work does not require detailed consultation at the design stage, because the firm produces the colour he wants or the fitting appropriate to his detailing. Or because he knows by experience the quality of their work and service and the reasonableness of their prices by comparison with other firms. Nomination can also give the architect better control over the costs, for he can discuss proposals and obtain interim cost check's before finally committing himself to

But nomination throws upon the architect the responsibility of making sure that his client is paying a reasonable price. There is a need then for some yardstick of cost, to which the architect can refer, a need which will become more important as the amount of nominated work grows. This yardstick might be provided by the technique of Cost Planning (see AJ July 28) by which a target sum can be set for the function that a specialist system performs.

The builder

The builder's problem at present is that although he is legally responsible for the work of the 'sub-contractors nominated by the architect, he has little or no say in their nomination and finds that their real loyalty is to the architect. He often finds that they have been asked to tender on vaguely defined terms or none at all (except those in small print on the back of the quotation). In some cases sub-contractors refuse to accept conditions based on those in the main contract.

The RIBA form of contract requires that sub and main contract conditions shall be in accord with each other, but architects do not always make sure that this requirement is observed. Consequently disputes arise, especially with nominated specialists unknown to the builder, over the use of site facilities, tools, scaffolding, and over the responsibility for unloading, storage and other attendance items. Lack of co-ordination of this kind makes the settlement of accounts a difficult and tiresome affair in which goodwill is severely strained.

Although the architect's reasons for nomination given above are appreciated by the builder, he often thinks that a large part of the work is taken out of his hands unnecessarily. For work such as floor finishes, plumbing, electrical installations or materials such as paint, there may, from the builder's viewpoint be a number of firms of equal quality and reputation. The builder would prefer to choose a firm he knows and has worked with before, a firm familiar with his methods and his men, prepared to cooperate in the organization of the job. This kind of nomination may also restrict the builder's freedom to buy in the most economical market.

It often appears to a builder that the large number of sub-contractors involves a wasteful duplication of administration. There are separate organisations-separate plant, site offices, and supervisory personnel, tools and equipment. It is not that the number of specialists should be reduced, for their technical contribution is far too valuable, but that a closer degree of co-ordination could avoid waste and contribute markedly to overall efficiency, and harmony. Yet specialist firms seem disinclined to "get together" with the builder for the sharing of supervisory staff or tools and equipment. Nor do they always welcome the offer of this kind of co-operation from the builder. This is a problem which we commend to the appropriate builders' and specialists' organizations for joint consideration.

The quantity surveyor

A large number of nominations means a large number of p.c. items in the bill of quantities, items which are not often based on a surveyor's bill. This makes the quantity surveyor's job easier-at the pre-tender stage anyway-but it does not necessarily diminish his fee. The steady increase of nominated work is gradually taking work out of his hands, but this does not seem to worry the profession very greatly. In many instances -heating, structural steel, reinforced concrete and electrical installations, the q.s. is



... floor construction

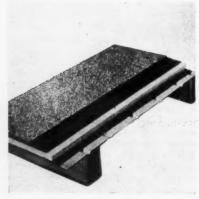
quite capable of producing a bill, but he is not asked to do so because the specialist firm has designed their own work and quoted a lump sum. But in the case of work such as proprietary structural systems he



... floor sinishes

has not the necessary knowledge to prepare bills.

The quantity surveyor is in a difficult position, for if the part of the work he is able to measure continues to decrease, the situa-



... roof deckings

tion is not far distant in which it is no longer worth his while to measure the remainder. The role of quantity surveyor is therefore thrown into question, especially since his main function is that of measurement and valuation. His role of cost adviser is, in the traditional context, subsidiary. In a previous article (AJ July 14, 1955)-" The Quantity Surveyor's Control of Costs "-we described the dangers of this situation, and suggested that the quantity surveyor should regain his position of measuring all the work. He should do this not solely for competitive tendering as in the past, but in order to provide the necessary data on which efficient cost advice could be based, cost advice that would assure the client of value for money.

We have described how loose, unco-ordinated sub-contract arrangements produce difficulty and loss of efficiency. In this the quantity surveyor could do much towards smoother running of contracts if given the opportunity of preparing the documents on which specialists should tender, and bringing the conditions of sub-contract and main contract into alignment.

The sub-contractors

In preparing this article we obtained the views of three sub-contractors from the fields of Plumbing, Heating, Electrics and a maker of cast concrete products. The total range of sub-contracting trades is so wide, and individual firms vary so much one from another, that the views expressed below cannot be representative. But they come from firms which have a high reputation and a progressive outlook.

The plumber: He would welcome early nomination because his work can be more economically designed and will avoid "specials." His price can also be more accurate than if he tenders on the surveyor's bill, for the bill rarely gives enough information. And if he tenders to a builder, the latter may be trying to get a lower price than his own; but where he has been nominated by the architect, the builder may be unco-operative and fail to pass on architect's instructions which affect his work. And the architect may specify materials and fittings that restrict his freedom to buy in the most economical market.

The heating engineer: He felt that nomination of the contracting firm is in general the more fruitful course, because the firm can be more enterprising than the consultant, technically. He deprecated the practice of using one firm's design to get quotations from others, and suggested that the payment of a fee would put this matter on the right basis. It should be borne in mind that the principal contracting firms have highly qualified and competent design staffs, and it follows that co-operation between contractor and architect can make a significant difference to the economy of a scheme, especially since heating economy is closely bound up with the overall form of the building. In this connection he mentioned the difficulty of comparing the initial and running costs of one scheme with those of another.

The electrical engineer: He said that early co-operation with the architect was not so

important for his work, and rather favoured competitive tendering. He would rather tender to the architect than the builder—for the same reason as the plumber, but he would prefer to be under the builder's control during the contract, and receive architect's instructions through him. He said architects were not generally competent to write electrical specifications.

The cast concrete supplier: He believed very definitely in co-operation with the architect, as a means of reducing mould costs and other overheads. He felt that this could reduce the price of his products far more than the spur of competition. Co-operation could help to avoid needless complication in the design of components.

The supplier also mentioned that work for which he quotes is often billed in a way difficult to extricate from builder's work, such as hoisting and fixing. He would prefer it to be separately scheduled.

It should be noted that these opinions in general accord with our analysis of the "specialist" problem.

Our conclusions may be summarized:

1. There is an urgent need for building owners to accept that buildings are now much more complex than they were. That the owner, if he is to obtain a satisfactory building must pay adequately for the immense amount of investigation and analytical work that design now involves. This means paying fees for the specialized knowledge—structural, electrical, heating, acoustical and so forth—to consultants and specialist contractors.

2. There is an urgent need for contractual procedures which give the builder adequate authority to organize and control effectively, all the specialists employed upon a project. Under present conditions this could be achieved:

(a) If the architect made a clear distinction between those specialists who must be nominated for their work to be integrated at the design stage, and those specialists who could be invited to tender in competition. And if the names of nominated specialists were included in the builder's tender documents. The aim being to reduce nominations to a minimum.

(b) If the conditions on which specialists are asked to tender and the terms on which they enter into contract accord with the terms of the main contract. These terms should be such as to encourage close co-operation between main and sub-contractors and reduce wasteful duplication of plant, and site facilities to the very minimum.

Both these recommendations are aimed at giving the builder greater control over the sub-contractors. But it is fairly evident that, such are the technical changes now going on, the amount of nomination is likely to increase, even if architects make the distinction mentioned above. It is also evident that however carefully the terms of sub-contracts are defined, real integration of sub and main contractors' work will remain difficult while the builder is appointed after the sub-contractors.

One solution to these difficulties that has been proposed is—Architect-Builder Co-operation. This is one of the things we shall discuss in our next article.

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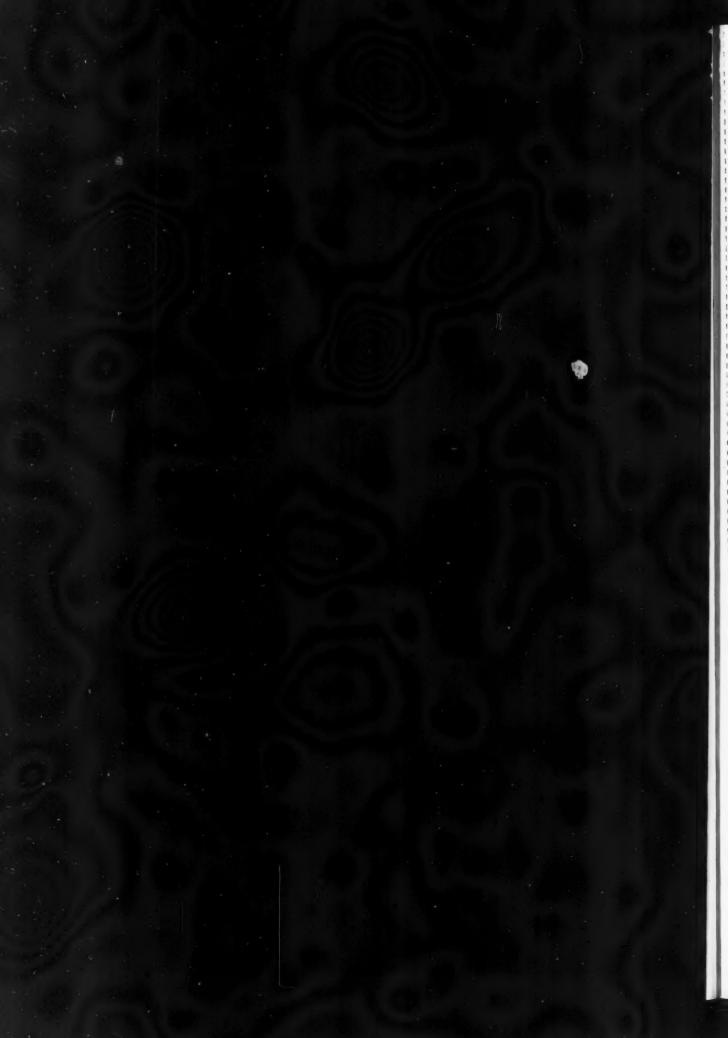
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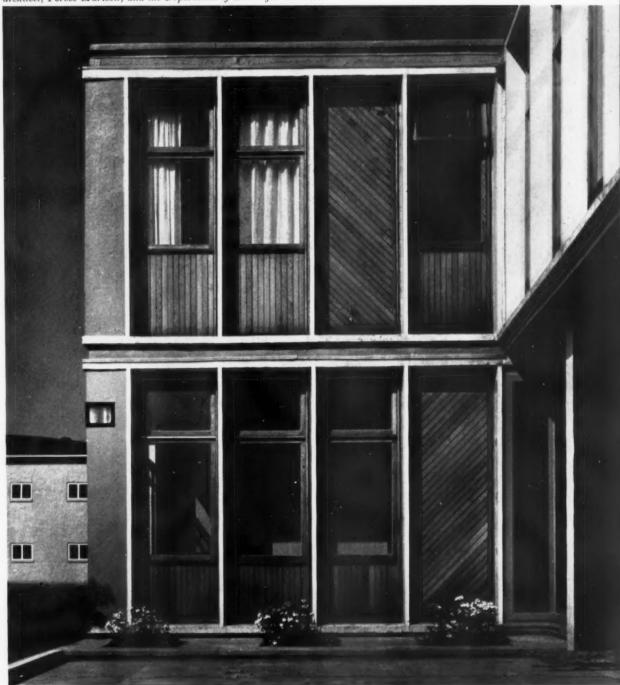
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TIMBER INFILLING PANELS: HOSPITAL AT ALEXANDRIA, DUMBARTONSHIRE

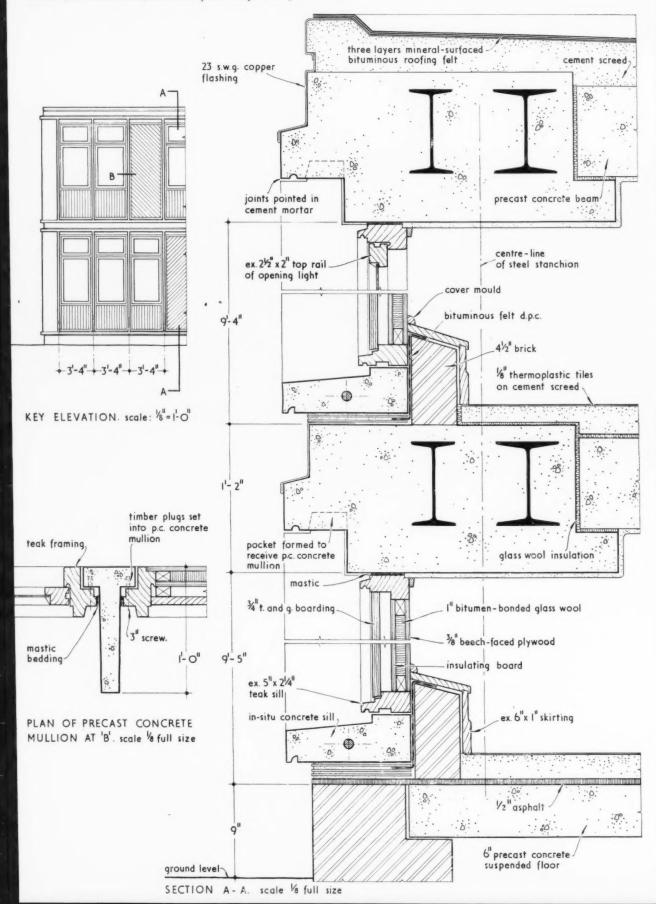
John Keppie and Henderson and J. L. Gleave, architects, in conjunction with Western Regional Hospital Board (chief architect, Forbes Murison) and the Department of Health for Scotland



Precast concrete mullions and sill are inserted between the in-situ edge-beams, the sill being bedded on slate. The panel inserts are framed in teak, clad externally with tongued and grooved Western red cedar, internally, with beech-faced plywood. One inch of bitumen-bonded glass wool, half an inch of insulating board and a one-inch air space give the blind panels a calculated U value of 0·125.

TIMBER INFILLING PANELS: HOSPITAL AT ALEXANDRIA. DUMBARTONSHIRE

John Keppie and Henderson and J. L. Gleave, architects, in conjunction with Western Regional Hospital Board (chief architect, Forbes Murison) and the Department of Health for Scotland



WORKING DETAIL

PARTITION: OFFICES IN LONDON, W.C.1

J. Godfrey-Gilbert, architect



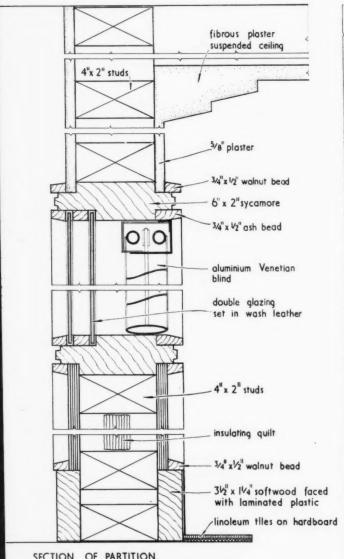
The opening above door level is double-glazed with a vertical bay of fluorescent lights (hinged for easy cleaning) behind the Venetian blinds. The panel front of the radiator cover is held by screws which are inserted in slots cut in the brass rods supporting the baffle. These rods are hot-lacquered.

PARTITION: OFFICES IN LONDON, W.C.1

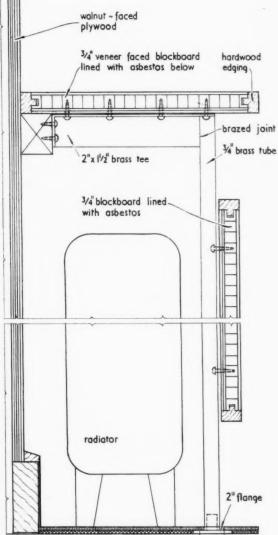
J. Godfrey-Gilbert, architect



SECTION AND ELEVATION OF PARTITION , scale $\frac{1}{4}$ = $\frac{1}{1}$ O







SECTION OF RADIATOR CASING, scale 1/4 full size





TECHNICAL SECTION

Lighting is an embarrassing subject for the architect because it is evident that it can advance little further without his aid and because he feels that he has neither the time nor the knowledge to give his aid effectively. In a thoughtful paper delivered to a joint meeting of the RIBA and the ISE, Derek Phillips, the consultant architect to British Thomson-Houston Co. Ltd., called for an educational system which would give future architects and future lighting engineers sufficient common knowledge to enable them to work fruitfully together, and called also for the establishment of a race of lighting consultants who will be independent of the manufacturers. Both of these are much to be desired. The problem for the architect arises from the fact that he has never developed a sensibility towards lighting. Lectures and even visits to good lighting installations can of themselves do little to correct this unless they aim at instilling in the architect certain habits. He must be able and willing to check lighting effects, and to carry, say, a photometer as he might a measuring scale: for lighting, like sound insulation, ventilation and heating, is a study in which our sensibilities have not been trained to keep pace with our improved knowledge.

This week's special feature

10 DESIGN: BUILDING TYPES Hertfordshire schools development, 4

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

This, the fourth article by W. D. Lacey and H. T. Swain, describing the technical development work carried out by the Herts County Architects' Department (County Architect, C. H. Aslin, P.R.I.B.A.) is devoted to the subject of fittings. The first two articles (published on May 12 and 26, 1955) described the development of the structure, and the third (published on August 11, 1955) that of heating. This is the last article describing this phase of the Department's work. We hope shortly to continue the series, when two more architects from the same office, K. R. Twist and J. T. Redpath, will describe the subsequent development work on the secondary schools programme.

Just as the heating installation was taken in the last article as being typical of the services, so in this article three items are chosen to represent the fittings and furniture of the schools; lavatory basins, cloak fittings, and chalkboards. These will serve to show how the development work carried out in the Architect's Department was by no means confined to the carcase of the building but covered everything within it. Tables, chairs, cupboards, urinals, and other similar items were subjected to the same scrutiny.

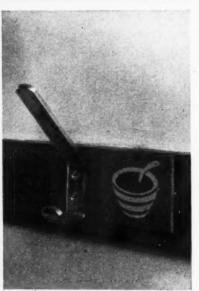
Alterations to the design of the various

items did not always take place simultaneously at the beginning of each programme. For instance, it will be seen from the pages which follow that the lavatory basins and cloak fittings were redesigned after the first prototype infants' classrooms were built at Cheshunt JMI School, the second development stage being the Junior Section of the same school. These modified designs were found suitable enough to be used throughout the 1947 programme, after which they were again revised. The chalkboards, which differ for infants and juniors, developed in a somewhat different sequence.



Left: a range of "Bean," lavatory basins in the Cheshunt JMI School. After the trial installation of BSS type basins in the Infants' Section of this prototype school, it was decided that a new design of basin was needed, specially suited to use by small children. The "Bean" basin was the result of co-operative development work by the architects and the manufacturers. Notable features are the avoidance of horizontal surfaces which collect dirty water and soap, the single tap which supplies water at a controlled temperature, and the mounting of the basins at a short distance from the wall. The large and unsightly traps were the subject of subsequent development work, being replaced by a single trap for the whole range.





Extreme left: a group of cloak fittings at Morgan's Walk JMI School, Hertford, one of the schools in the 1948/1949 programme. The stalls shown here are constructed of fibrous plaster. Later in the 1948/1949 programme these were changed to hardwood contruction.

Left: detail of a coat hook, mounted on a hardwood batten. It has a picture symbol for identification rather than a number.



Left: a classroom at Strathmore Avenue Infants' School, one of the schools in the 1947 programme. The emphasis on informal teaching groups for infants led to the decision to provide chalkboards at intervals around the walls of the classrooms. These were alternated with pin-up boards. In the later 1948/1949 programme a mobile chalkboard was introduced which served the purpose better. The photograph also shows storage furniture and tables and chairs; development work in conjunction with manufacturers was carried out by the Herts Architect's Department on almost all the fittings and furniture of the schools.

1946: CHESHUNT J.M.I. SCHOOL (INFANTS' SECTION)

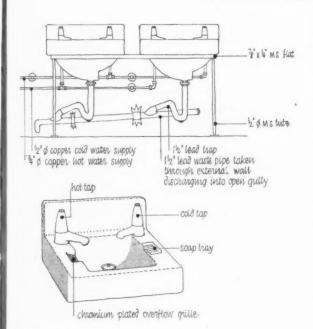
DEVELOPMENT WORK

The most suitable lavatory basin being manufactured in 1946 was the BSS basin for schools; this was used for Cheshunt Infants' Section. Exposed service pipes and lead wastes were included in normal builder's work and were made by the plumber on the site.

DEVELOPMENT WORK

The stall type of cloak fitting with solid walls was adopted to avoid the institutional atmosphere created in cloakroom areas by the use of the familiar tubular steel and wire mesh coat racks. The solid end panel shielded the coats from view in the corridor and helped to reduce the scale of the cloak space to that of a series of small enclosures. A hot water heating coil for clothes drying was bedded in the cloak partitions. It was felt that with this and adequate cross ventilation, together with the dispersal of the cloak areas, a more specialized type of fitting was not required. It was impossible to obtain timber, and the stalls were made of fibrous plaster with a honeycomb core. The seats, with shoe baskets fixed on the underside, were hinged to facilitate cleaning underneath.

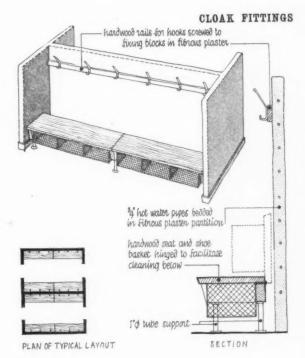
LAVATORY BASINS



CRITICISM

It was obvious that the BSS lavatory basin was unsatisfactory. Its small bowl was surrounded by an excessive volume of fireclay which made it expensive and gave it a clumsy appearance. There were large horizontal surfaces on which dirty water could lie. Similarly the plumbing did not conform to the standards required in a children's lavatory. The coupling, straps and holderbats on the service, pipes provided lodgment for dirt and looked extremely untidy. Lead waste pipes and traps by the plumber were similarly not suitable and were unsightly externally where they discharged over open gullies.

It seemed that the provision of separate hot and cold taps considerably slowed down the rate at which children could use the basins.



CRITICISM

It was decided that the general design of the cloak fittings in the prototype school was satisfactory. The only parts which seemed wrong were the hinged seat, which required an excessive amount of hardwood framing, and the hot water heating coils, which proved to be rather expensive.

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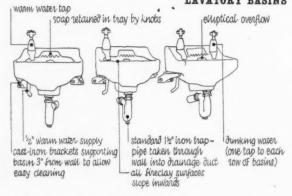
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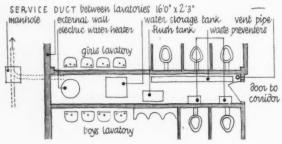
1947: CHESHUNT J.M.I. SCHOOL (JUNIOR SECTION) AND 1947 PROGRAMME

DEVELOPMENT WORK

Adamsez Ltd, agreed to collaborate with the Architect's Department in the development of a small basin specially for use in primary schools. Team work involving the manufacturer, who understood the problems of economic production, and the architect, who knew in general the kind of basin required, eventually produced a satisfactory prototype. The moulds were made up and production of a suitable and inexpensive basin (the Bean) began. It was decided to tackle the problem of the supply and waste pipes by building service and drainage duets between lavatories. This would conceal the plumbing as well as house waste preventors and tanks. Open gullies were abandoned and the wastes were connected direct to the soil drainage. Thermostatic control was arranged for the electric water heaters and water at the right temperature was provided through one tap to each basin.

LAVATORY BASINS





CRITICISM

The Bean basin considerably improved the efficiency and the appearance of the lavatories. It was evident, however, that the use of the service duct was restricting the planning of the schools and was wasteful in floor space. The separate trap to each fitting seemed to be an unnecessarily elaborate method of sealing the basin drainage.

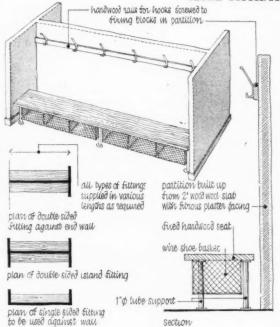
The provision of a single tap to each basin, supplying warm water at a controlled temperature, had speeded up the use of the basins, and incidentally reduced cost.

DEVELOPMENT WORK

The architects decided to continue with the cloak fitting design with only minor modifications. The hollow fibrous plaster stall construction was changed to 2 in. woodwool between flat fibrous plaster sheets to conform with the change in method of internal partitions. To simplify the construction of the bench and for reasons of economy the hinged seat was omitted. It was decided not to continue with the desirable but expensive heating coils, but instead to adjust the heating systems of the schools to raise the air temperature in the cloak spaces.

Alternative lengths of cloak fittings were standardized for the differing planning requirements of the various schools in the 1947 programme.

CLOAK FITTINGS



CRITICISM

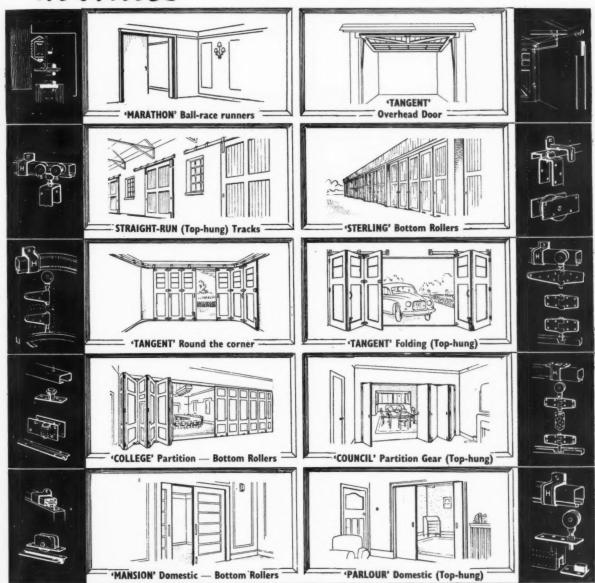
From a planning and appearance point of view the cloak fittings were successful. Experience showed, however, that the fibrous plaster surface would not stand up to the rough treatment given by the older children. Difficulty was also found in painting it, due to mould oil and mineral salts in the material. The locating spigots for the bench legs were positioned by the builder from the drawings before the bench itself arrived on the site, and it was consequently difficult to obtain an accurate fit. The omission of the hinged seat on grounds of economy had in fact made cleaning very difficult, as there was not enough space under the baskets for sweeping.

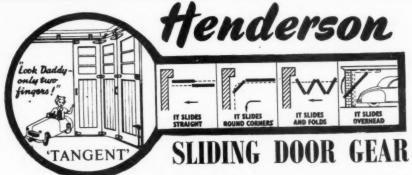
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1948/1949 PROGRAMME AND 1950 PRIMARY PROGRAMME

DEVELOPMENT WORK

It was decided to omit the service duct in future schools. This meant that a considerable improvement in the design of service and waste pipes was needed. Otherwise this step would amount to reversion to the previously criticized arrangement at Cheshunt IMI Infants' Section.

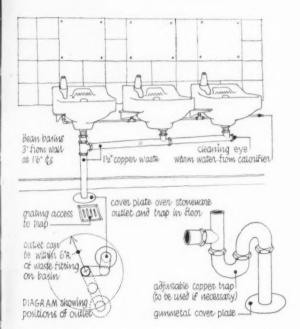
It was clear that what was required was for the waste assemblies to be made in the factory where a far higher standard of finish could be obtained than would be possible on the site.

Econa Ltd. were manufacturing prefabricated copper wastes, Cooperation with this firm led to the standardization of a number of waste assembly designs which could be used in all schools to be built in the programme.

DEVELOPMENT WORK

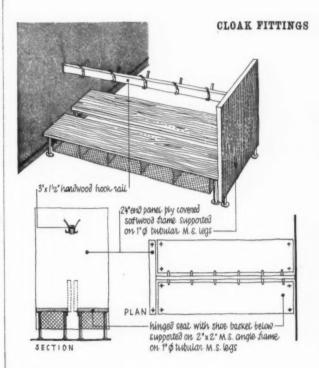
It was decided to design a new standard cloak fitting which did not involve the use of fibrous plaster and had a self-finished surface. Since there was now more available, timber was the obvious choice. Hinged seats and shoe baskets were reverted to, but with an angle and tube frame instead of hardwood.

LAVATORY BASINS



CRITICISM

It was obvious that with the specially designed basin and the exposed prefabricated copper wastes a basically satisfactory solution to the problem of school lavatories had been found. The basins and waste assemblies could be arranged in a variety of different ways, were clean in use and looked reasonably tidy. All the same, it was thought that there was room for future improvement in the refinement and simplification of the detailed design.



CRITICISM

In construction and detail the fitting seemed to be reasonably good. Its design, however, like that of the previous 1947 fitting, had been based on a rather lavish use of floor area. With the need to build new schools within the Ministry of Education permitted cost limit, it was becoming difficult to afford the space.

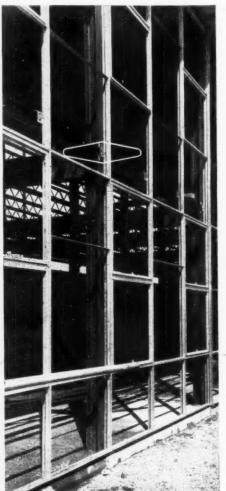
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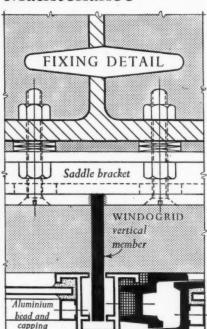
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1946-1947: CHESHUNT J.M.I. SCHOOL AND 1947 PROGRAMME

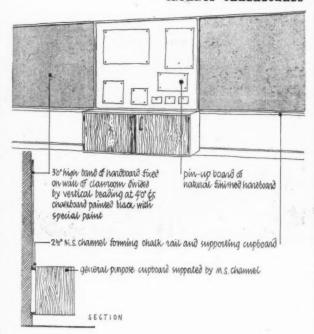
DEVELOPMENT WORK

Based on the requirements of group rather than formal teaching, the chalkboards were spaced evenly around the classroom walls, with the areas between forming pin-up boards. Teaching could therefore be directed to any part of the room, and in addition the boards could be used by the children as well as the teacher for drawing and writing. The architects tried to find an inexpensive material suitable for pin-up boards as well as for chalkboards. It was decided to use hardboard, which was painted black for chalking and left unpainted for the pin-up boards.

DEVELOPMENT WORK

In the junior classrooms more emphasis was placed on directional formal teaching. A single chalkboard was placed, therefore, in the centre of the teaching wall, the remaining usable wall area being taken up with pin-up boards. Fibrous plaster was used, being a readily available material giving a reasonably good surface for writing on.

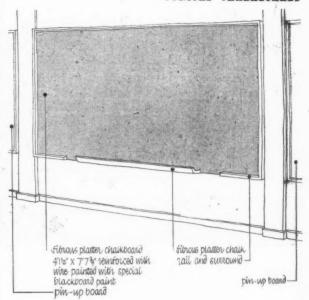
INFANTS' CHALKBOARDS



CRITICISM

The method of obtaining teaching flexibility by spacing chalk-boards all around the classroom meant that the much needed pin-up space was restricted. The importance of the chalkboards for drawing on by the children had been rather exaggerated, whilst not sufficient facilities had been provided for the teacher. The fairly soft surface needed for pin-up boards was unsuitable for satisfactory chalking, and the teachers found it hard to write on a completely vertical plane.

JUNIORS' CHALKBOARDS

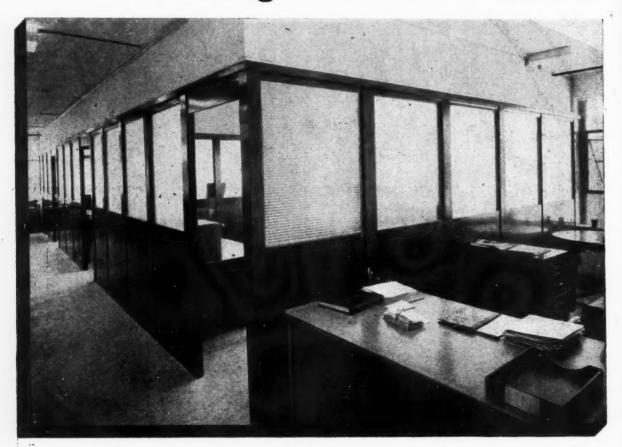


CRITICISM

It was felt, as with the infants' chalkboard, that the completely vertical writing surface was unsatisfactory. The fact that it was non-reversible meant that writing and drawings could not be kept for future use. Whilst fibrous plaster was a reasonable material for the board itself the chalkrail and surround tended to get chipped. The colour black, although the obvious colour for the board, did not appear to fit in with any reasonable classroom colour scheme.



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1948/1949 PROGRAMME AND 1950 PRIMARY PROGRAMME

DEVELOPMENT WORK

A decision was made to fix pin-up boards on all usable wall areas and to design a mobile chalkboard. This board was to have the advantages of the traditional blackboard and easel: a sloping plane to write on, a reversible surface, and mobility. It needed, however, to be more easily moved than the usual easel if the teachers were to be encouraged to make full use of the areas available for group teaching in the school and outside. A design was produced in the department, and tenders were invited for its supply from several manufacturers. An order was placed for boards for the 1948-9 programmes. Subsequently the boards were put on the market by the manufacturer and were available for general school use.

DEVELOPMENT WORK

It was decided to design a reversible chalkboard with approximately twice as much usable area. Consultation with the Building Research Station indicated that the use of coloured rather than black chalkboards, in addition to assisting the general colour scheme of the classroom, was often better for vision. The important thing was to have a greater contrast between the chalk and board colour than between the board colour and that of the surrounding room. In a light-coloured room black was bad in this respect. A range of four equally suitable colours were adopted and used as suggested by the classroom colour schemes.

INFANTS' CHALKBOARDS

board lock

handwood chalk rail

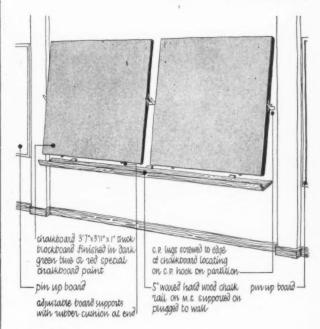
whose feet

frame of 1" and 34" of M.S. tube stove enamelled satin grey

CRITICISM

The mobile chalkboard was satisfactory.

JUNIORS' CHALKBOARDS



CRITICISM

The use of coloured rather than black chalkboards had improved the appearance of the classrooms and, in practice, was found less tiring to the eye.

The main drawback of the design was that many teachers found difficulty in lifting the heavy boards to turn them over.

PROTECTION?



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INFORMATION CENTRE

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7.47 practice GEOMETRY FOR CARPENTERS

Practical Geometry for Carpenters, Joiners and Woodcutting Machinists. A. B. Emary. (Sir Isaac Pitman & Sons Ltd. 17s. 6d.)
Craft geometry from primary to advanced

Craft geometry from primary to advance levels.

The author is on the staff of Reading Technical College and his book can be regarded as a useful reference and instructor for the City and Guilds examinations etc. Many of the complicated mouldings described—double curvatures and roof finials—are a legacy of the past which few architects specify today. As long as the older buildings stand, however, there will always be repairs and a demand for craftsmen to do this work. To those people and the architects who supervise them here is a clear and concise method of setting out complex shapes and constructions.

7.48 practice BUSINESS PROCEDURE

Architectural Practice and Procedure. Hamilton H. Turner (B. T. Batsford Ltd. 5th Ed. 21s.)

A book of 399 pages based on a series of lectures concerning the business side of an architect's practice. It is particularly recommended for final year students and those preparing for the RIBA Professional Practice Examination.

The excellence of these lectures, first delivered in 1921, is proved by the mere fact of a fifth edition in 1955. The subject matter has been brought up to date, the form of specification largely rewritten and related where possible to appropriate British Standards, and the latest edition of the RIBA Form of Contract is discussed in detail. The book is an accurate guide to general practice today, but it is well to remember that the building industry is rapidly changing its structure and techniques, and soon there must be a thorough overhaul of contractual procedure. By then one hopes there will be a sixth edition, suitably revised.

10.139 design: building types

Modern Office Buildings. Michael Rosenauer. (B. T. Batsford Ltd. 35s.)

A survey of office building from zoning and orientation to finishings, mechanical services and aesthetics,

The author will be remembered in this country as the architect of the recently completed Time and Life Building in London. His book covers the field in very general terms and would be very informative to the

layman unversed in such factors as plot ratios, economical usage of circulation space and maximum penetration of daylight. For the architect, however, there is not that collection of specialised information which would make it useful as a reference book.

12.59 materials: metals STONE

Stone in Architecture. R. J. Schaffer and W. F. Haslop. (RSA Journal, 28.10.55.)

Two lectures by Mr. Schaffer and one by Mr. Haslop. The first lecture is mainly historical. The second deals with the weathering of stone and the subjects of restoration and preservation. Atmospheric pollution, frost damage and damage from soluble salts are dealt with very clearly and there is useful advice on the possibility and method of testing new stone. This lecture gives an authoritative and up-to-date survey of the subject. The third lecture, on the stone mason's craft, is of a more general nature, but of considerable interest though the author seems to disapprove of anything except "real masonry." It is questionable whether this is a really wise attitude in these days of frame buildings.

13.127 materials: timber JOINERY

Quality of Timber and Workmanship in Joinery, Part 2: Quality of Workmanship. BS 1186: 1955. (BSI 2s. 6d.)

In 1952, Part 1 of this BS was issued and covered quality of timber. The difficulty of specifying clearly a requirement for workmanship has now been recognised and this Part 2 attempts to define quality of workmanship in joinery for general housing work. It is very clear and precise in terms of requirements for the fit of joints, but has not been able to define very clearly standards of surface finish. Nevertheless, it should prove a most useful tool for the architect. It would be useful to have the whole BS in one document rather than in two separate Parts as now published.

15.134 practice: draughtsmanship PERSPECTIVE DRAWING

Teach Yourself Perspective Drawing. H. F. Hollis (English Universities Press Ltd., 6s.) The purely technical and geometric side of the subject is well covered in a clear and simple-to-follow manner, from first principles. The book contains a useful chapter on instrumental aids to perspective drawing, including the Centrolinead, Perspective Scales, and the use of proportional dividers. There are also chapters on the application of perspective to shadows and reflections.

16.118 materials: miscellaneous MARBLES AND GRANITES

The Marbles and Granites of the World. Col. M. H. Grant. (Obtainable from R. Lance, c/o C. Soar, 4, Launceston Place, W.8. £3.)

This is a scholarly work which lists some 3,000 marbles and granites, describes them (alas, not with pictures), gives the history of those which have any and in many cases quotes buildings where they are to be seen

in use. It is very readable and full of interest, though, as it is privately printed, the price is disproportionately high.

17.106 construction: general LCC CONSTRUCTION

LCC Technical Development and Research. (RIBA Journal, Oct., 1955.)

An interesting article dealing with the work of the Development Group at the London County Council. It covers a wide range of subjects upon which interesting investigations have been made and includes illustrations. There are good ideas here for all concerned with house and flat construction and it is good that a large organization of this kind, which can afford to do development work beyond the scope of smaller offices, should hand on ideas in this way. Among items dealt with are foundations, windows, ironmongery, drainage, branch flues, and convector fires.

23.216 heating: ventilation ELECTRIC WATER HEATERS

Thermal Storage Water Heaters. (Electrical Review, 4.11.55.)

Tabulated data on manufacturers, models, capacity, loading, finish and price. Many types illustrated.

24.195 lighting DAYLIGHTING

The Prediction of Levels of Daylighting in Buildings. BRS Digest No. 80. (HMSO, August, 1955. 3d.)

This is a useful and opportune review of the various methods for assessing the levels of daylight in buildings. Before describing in detail the various aids now available, the Digest clearly explains the difference between the terms "daylight factor" and "sky factor." The distinction between these two terms has often proved confusing to people unfamiliar with the background work in this field. The methods now commonly used for computing the sky factor are next described, comprising the BRS Protractors, the Waldram Diagram and the NPL Tables of Graded Sky Factors. The Digest briefly indicates when each of these methods would be appropriate. The next part of the Digest is devoted to an explanation of the step-bystep method of calculating the true daylight factor, i.e., including the direct and reflected components of daylight. Alternative methods of daylight calculation are noted and a promise made that further development in this direction will be published in due course. The Digest concludes with a discussion on the interpretation of daylight factor in terms of illumination and a final note about the choice of decorations.

25.118 water supply: sanitation COPPER TUBES

Light Gauge Copper Tubes for Water, Gas and Sanitation. BS 659: 1955. (BSI, 2s. 6d.) Revision of earlier BS. Covers quality and dimensions of tubes up to 6 in. diameter. It should be noted that there are other British Standards covering fittings to go with these tubes, and also for copper tubes to be buried underground.

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Announcements
PROFESSIONAL

Basil Z. Gillinson, Dipl. Arch., A.R.I.B.A., has moved to 8, Queen Square, Leeds, 2. (Tel.: Leeds 22664.)

Denys Hinton, A.A. Dipl., A.R.I.B.A., has moved to 21, The Parade, Learnington Spa. (Tel.: 1197.)

C. T. R. Kelly & Partners, chartered quantity surveyors, of 36, Seymour Street, London, W.I., have taken into partnership M. K. Boyden, A.R.I.C.S., and G. H. Oswald, F.R.I.C.S.

R. T. Kennedy, C.B.E., A.R.I.B.A., M.T.P.I., has left the MOHLG to commence private practice at 14, Harley Street, W.1. (Tel.: MUSeum 0383) in association with Sir William Holford and Partners.

Peter Boston, M.A., B.ARCH., A.R.I.B.A., has entered the firm of James & Bywaters, 5, Bloomsbury Street, W.C.1, as a partner. His private address is now 79A, Shepherd's Hill, N.6. (Tel.: MOUnt View 0527.)

Clifford Culpin & Partner, F/A.R.I.B.A., A.M.T.P.I., have moved from 3, Southampton Place, W.C.1, to 39, Doughty Street, W.C.1. (Tel.: remains CHAncery 5395.)

TRADE

The new address of the Midland Sales Office of the Shell Chemical Company Limited is Warwick Chambers, 14/20, Corporation Street, Birmingham 2. (Tel.: Midland 6954, unchanged.)

Plaster Products (Greenhithe) Ltd. are moving their London Office from Windsor House, Victoria Street, S.W.1, to Bath House, 82, Piccadilly, London, W.1. (Tel.: GROsvenor 1171.) Full sales and technical service is available from their London Office.

British Insulated Callender's Cables Ltd., have appointed G. W. Wheaton, B.Sc., as Branch Manager in Middlesbrough in succession to R. N. Crawford, who is retiring. The appointment takes effect from 1st January, 1956.

The telephone number of the Lincoln Branch Sales Office of British Insulated Callender's Cables Ltd., is now Lincoln 21351/2.

British Plimber Ltd., the London firm of resin bonded wood chipboard manufacturers, have appointed two new Technical Representatives. John Peers of Chester will operate in Cumberland, Westmorland, Lancashire, Cheshire and North Wales; and John Claxton in Northumberland, Durham, Yorkshire, North Derbyshire and North Lincolnshire. Mr. Claxton's headquarters will be in Leeds.

The Electrical Engineers (ASEE) Exhibition Ltd. have obtained new premises at 6, Museum House, 25, Museum Street, W.C.1, and all correspondence and interviews will be carried out at this address. The registered address remains as before: 23, Bloomsbury Square, W.C.1, and the Tel. No. MUSeum 3450 remains unchanged.

T. H. Kirkup, Managing Director of The Western Trinidad Lake Asphalt Co. Ltd., a subsidiary of The Limmer & Trinidad Lake Asphalt Co. Ltd., has been appointed a Director of the latter firm.

N. A. Richardson, B.SC., A.R.I.C., has been appointed Technical Adviser to the Association of Tar Distillers. He will devote much of his time to wood preservation. He will work with, and have the facilities of, The Coal Tar Research Association, and is prepared to give information to all those interested in the use of Timber Preservatives.

• FERROGRAN STEEL FACED FLOOR FLAGS •



Manufactured by PHODONITE
Specialists in Floor

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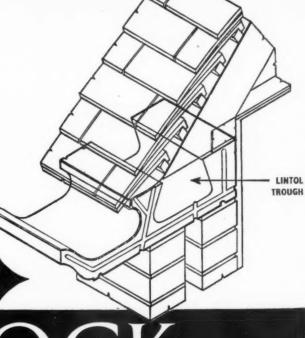
* Cut Downpipe & Drainage Costs

* Cut Maintenance Costs

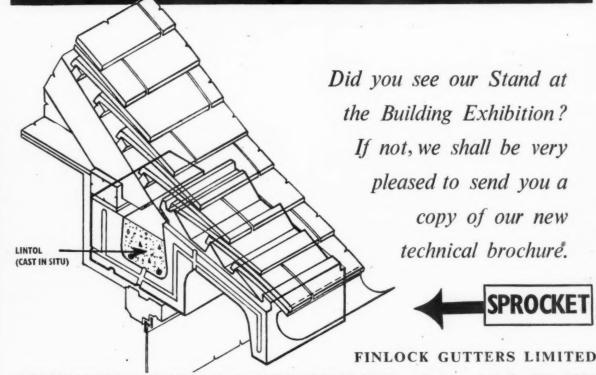
* Improve appearance

* Improve insulation by sealing the eaves

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FINLOCK HOUSE, 25 FRANT ROAD, TUNBRIDGE WELLS, KENT. Telephone: Tunbridge Welts 3396/9

We deliver to all parts of England, Scotland, Wales and N. Ireland.

Works at: Southborough, Kent; Royston, Herts; Cwmbran, S. Wales; Crewkerne, Somerset; Leeds, Yorks; Wakefield, Yorks; Musselburgh, Scotland; Belfast, N. Ireland.

DHB/2329B



Manufactured by the PHOENIX RUBBER CO. LTD. 91 BISHOPSGATE, LONDON, E.C.2 Phone: London Wall 3564 & 1622

MANCHESTER OFFICE: 472 Royal Exchange Buildings, Manchester, 2 BRISTOL OFFICE: 39 Broaw Street, Bristol, 1

Footwork is [child's play to PHENCO flooring

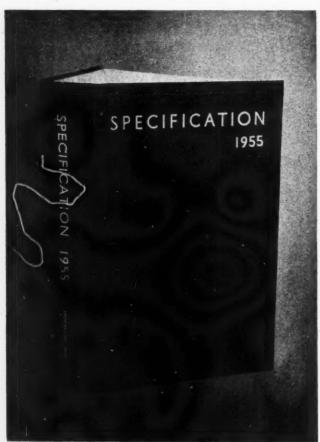
The play of young feet can mean very heavy wear on the school floor. That's why Phenco flooring is so suitable for school flooring. Its ability to take hard knocks is a revelation And it doesn't mind having things like oil, grease, spirits and chemicals spilled on it . . . just a wipe and it comes up clean as new.

The sound-deadening resilience and non-slip surface of Phenco flooring make it ideal for all types of flooring —in hospitals, hotels, restaurants, factories and offices. Yet it's inexpensive enough to use in private homes, too. And where appearance is paramount—Phenco offers a choice of thirty colours, available in strips or tiles, to give endless scope for decorative design. Phenco can

solve all manner of flooring problems for you. Why not write for descriptive literature?



FLEXIBLE VINYL PLASTIC FLOORING



just published SPECIFICATION 1955

Editor: F. R. S. YORKE, F.R.I.B.A.

THE 1955 EDITION of this unique complete guide to the writing of building specifications, long acclaimed as the standard work covering all sections of the building industry, has been scrupulously revised throughout by its editor, F. R. S. Yorke, F.R.I.B.A., and now runs to 1288 pages (1246 pages in 1954, 1176 in 1953). It contains a completely re-written section on illumination, and also major changes have been made in the sections on electrical engineer, metal worker (particularly the references to copper alloys), structural aluminium (with the help of the Aluminium Development Association), heating engineer. In each of its 36 sections will be found not only full details of the established methods of building construction but also the latest information about the constantly changing and ever increasing number of proprietary systems and materials.

During recent years the demand for copies has been so great that the edition has been absorbed immediately on publication. You are therefore urged to place your order *now* for the 1955 edition. The price is 30s. net. Postage 2s. 3d. (3s. 2d. abroad).

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Quicker Work with the FINEST VENEER Flexwood

Available in 20 Timbers.

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Wellsteads, Reading. Flexwood "Ash" crown cut. Architects: Geo. Baines & Syborn.

It goes direct on the plaster and bends—where wanted—to the smallest radius.

We quote for complete installations. Send your DRAWINGS to

ALEXANDRIA TRADING CORPN. LTD., 121, LONDON WALL, LONDON, E.C.2.

Tel: MONarch 2272 (6 lines)

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This is typical of many requests received by us and appears to be the result of a misunderstanding brought about by the very success of DENTOLITB as a germicidal and fungicidal finish.

Actually, DENTOLITE, is the best quality P.V.A. Emulsion Paint it is possible to produce. It is non-poisonous, free from odour, scrubbable and dries with a beautiful satin sheen. ONE COAT OVER ANY SIMILAR COLOUR GIVES FIRST-CLASS OBLITERATION.

DENTOLITE'S special self-sterilising properties are due to the unique method of manufacture (World Patents applied for) which confers on it the properties of permanently resisting disease-producing germs and mould, making it the PERFECT HYGIENIC WASHABLE WALL FINISH.

DENTOLITE is available in thirty attractive pastel shades AND COSTS NO MORE THAN ANY OTHER FIRST-CLASS EMULSION PAINT.

Shade cards, scientific reports, technical literature, etc., will gladly be sent on request.

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Paint and Varnish Makers for over 160 years.

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Telegrams: EDLACA, BARKING

CLASSIFIED **ADVERTISEMENTS**

Advertisements should be addressed to the Adot. 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 merning for inclusion in the following Thursday's

paper.
Replies to Boz Numbers should be addressed care of "The Architects' Journal," at the address

Public and Official Announcements 25s. per inch; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Amployment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive under the employment is asseptiated from the provisions of the Notification of Vacancies Order, 1952.

HATES AND HARLINGTON URBAN DISTRICT COUNCIL.

HAYES AND HARLINGTON URBAN DISTRICT COUNCIL.

(a) ARCHITECTURAL ASSISTANT
(PERMANENT). Grade A.P.T. II. i.e., 2560—2640 p.a.;
(b) SENIOR ARCHITECTURAL ASSISTANT
(TEMPORARY). Grade A.P.T. IV. i.e., 2675—2325 p.a., plus London weighting in both cases, 21-25 years 220 p.a., 26 years and over 230 p.a. Candidates for (a) must have passed the R.I.B.A. Inter. Exam., good experience of housing work with a local authority; (b) must be a Registered Architect, have good general experience in design and construction in relation to municipal housing and other works, and capable of supervising large building contracts. The Council is unable to provide housing accommodation for either of these appointments. Further particulars and form of application available from the undersigned, which when completed must be returned as soon as possible.

GEORGE HOOPER. 4

Clerk and Solicitor.

Town Hall, Hayes, Middx. 3712

Town Hall, Hayes, Middx.

AIR MINISTRY Works Designs Branch requires in London and Provinces (with liability for overseas service) ARCHITECTURAL ASSISTANTS experienced in Dianning/preparation of working drawings and details for permanent and semi-permanent buildings. Solaries up to £850 (men) and £736 p.a. (women). Starting pay dependent on age, quals, and experience. Paid overtime. Long term possibilities with promotion and pensionable prospects, 4 weeks leave a year. Natural born British subjects. Write stating are, quals, emplowment details incl. type of work done to any Employment details incl. type of work done to any Employment Exchange quoting Order No. Borough 2303.

BOROUGH OF SOUTHGATE.
ARCHITECTURAL STAFF,
Applications are invited for the following permanent superamusted posts:

(i) FIRST ARCHITECTURAL ASSISTANT (A.P.T., Grade V, 2750—2990 per annum. excluding London weighting).

A.R.I.B.A.

(ii) ARCHITECTURAL ASSISTANTS (A.P.T., Grade III. £690—2725 per annum, excluding London weighting).

Applications are to be made on a form to be obtained from the Borough Engineer and Surveyor, and must be returned to the undersigned not later than Monday. 2nd January, 1956.

GORDON H. TAYLOR.

Town Clerk.

BORDIGH OF OLDRUTY.

BORDIGH OF OLDRUTY.

BORDIGH SURVEYOR'S DEPARTMENT—

ARCHITECTURAL SECTION.

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ADDICATION ARCHITECTURAL SECTION.

ADDICATION ARCHITECT. Grade A.P.T. V.

(2750—2900). in the Architectural Section of the Borouch Surveyor's Department.

ADDICATES for the appointment should preferably be Associate Members of the R.I.B.A.

The Architect appointed will be required to work primarily on the design and construction of Municipal houses, maisoneties, and multi-storey flats, and previous experience of this type of work is desirable.

The appointment will be superaposed.

national descriptions experience of this type of work is desirable. The appointment will be superannuable, subject to the National Conditions of Service and to the selected candidate passing a medical examination. Applications, giving particulars of age, qualifications and experience, and the names of two referees, should be delivered to the undersigned not later than Monday. 2nd January. 1956.

Housing accommodation will be made available to married applicants if required.

KENNETH PEARCE.

Town Clerk.

Municipal Buildings. Oldbury, Birmingham.

LONDON COUNTY COUNCIL requires:—
ARCHITECTURAL ASSISTANT, for preparation of working drawings, schedules, specifications, and supervision of work on site for sports pavilions, cafes, service buildings, etc., in parks and open spaces.
Salary up to £783 a year, according to qualifications and experience.
Application forms from Chief Officer of the Parks Department. Old County Hall. Spring Gardens, S.W.I. (WHItchall 3121.) (2082) 5089

CITY OF SHEFFIELD.
CITY ENGINEER AND SURVEYOR'S DEPARTMENT.
SENIOR PLANNING ASSISTANT, GRADE A.P.T. V.
Applications are invited for the position of Senior Planning Assistant, Grade A.P.T. V (£750—£900), on the staff of the City Engineer and Surveyor and Town Planning Officer (H. Foster, M.I.C.E., M.I.Mun.E.).
Qualifications: A.M.T.P.I. or A.M.I.C.E.

M.I.C.E., M.I.Mun.E.).
Qualifications: A.M.T.P.I., or A.M.I.C.E., or A.E.I.B.A., or A.R.I.C.S., or Engineering Degree, or A.M.I.Mun.E. Preference would be given to candidates with Planning and Architectural ex-

perience.

Superannuable post, N.J.C. Conditions of Service, medical examination.

Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries), and quoting the names of two referees, should be submitted to the undersigned by the 7th January, 1956.

JOHN HEYS, Town Clerk. 5001

Town Hall, Sheffield, 1.

METROPOLITAN BOROUGH OF WANDSWORTH.
ARCHITECTURAL ASSISTANTS.
Applications invited for two established appointments of ARCHITECTURAL ASSISTANTS.
Salaries: Grade III(A), £680, rising to £805 per annum.

Applicants must have passed Parts L and II of the R.I.B.A. Final or Special Final Examination or their equivalent at one of the recognised schools of architecture, and had at least 5 years' experi-ence, including training. Application forms obtainable from the Borough Engineer, Surveyor and Architect, must reach me by 28th December, 1955.

R. H. JERMAN,
Town Clerk
Municipal Buildings, Wandsworth, S.W.18. 5000

Municipal Buildings, Wandsworth, S.W.18. 5000

CITY OF PETERBOROUGH.
CITY ENGINEER'S DEPARTMENT.
APPOINTMENT OF ASSISTANT QUANTITY
SURVEYOR, A.P. & T. GRADE II.
Applicants should be students of the Royal
Institute of Chartered Surveyors, and should be
capable of abstracting, billing, site measurement,
taking off quantities for small work, and settlement of final accounts.
Applications, stating age, experience, details of
qualifications, together with copies of three recent
testimonials, should be sent in envelopes addressed
to the City Engineer and Surveyor (Mr. L. H.
Robjohn, M.B.E., A.M.I.C.E.). Town Hall, Peterborough, suitably endorsed, to reach him not later
than 30th December, 1955.
Housing will be provided, if necessary.
Canvassing, directly or indirectly, will disqualify. Candidates must disclose whether or not
they are related to any member or senior officer
of the Council.

C. PETER CLARKE.

C. PETER CLARKE. Town Clerk. Town Hall, Peterborough. 30th November, 1955.

WEST SUSSEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the follow
appointments:—
(1) SENIOR ASSISTANT HEATING-ENG

Applications are invited for the following appointments:—

(1) SENIOR ASSISTANT HEATING-ENGINEER-DESIGNER-DRAUGHTSMAN, at a salary in accordance with Grade V, A.P.T. Division (£750 to 4900 per annum).

(2) SENIOR ASSISTANT HEATING-ENGINEER-DESIGNER-DRAUGHTSMAN, at a salary in accordance with Grade IV, A.P.T. Division (£675 to £225 per annum).

(3) ASSISTANT ELECTRICAL - ENGINEER-DESIGNER-DRAUGHTSMAN, at a salary in accordance with Grade III (Special), A.P.T. Division (£650 to £775).

(4) SENIOR ASSISTANT ARCHITECT, at a salary in accordance with Grade V, A.P.T. Division (£750 to £900).

(5) ASSISTANT ARCHITECT, at a salary in accordance with Grade V, A.P.T. Division (£675 to £225).

accordance with Grade IV, A.F.F. Division (200 to 2325).

(6) ASSISTANT ARCHITECT, at a salary in accordance with Grade III (Special), A.F.T. Division (2650 to 2775).

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 6th January, 1956.

T. C. HAYWARD, Glerk of the County Council. County Hall. Chichester.

2nd December, 1955.

4994

BOROUGH OF WATFORD APPOINTMENT OF CHIEF ASSISTANT QUANTITY SURVEYOR Applications are invited for this permanent appointment at a salary within Grade A.P.T. V (£750-£900).

Applicants should hold an appropriste professional qualification and be accustomed to the preparation of Bills of Quantities, Specifications, Estimates and settlement of accounts in connection with Housing Estates, Public Building and general building work under the Local Authority.

Forms of application on request, returnable by 2nd January, 1956.

F. C. SAGE.

Borough Engineer & Surveyor.

Town Hall, Watford.

5092

ISLE OF ELY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the undermentioned appointments on the staff of the County Architect:—
(a) THIRD ASSISTANT ARCHITECT (Special Grade), £650 × £25 to £775 p.a.
(b) JUNIOR ENGINEERING ASSISTANT (Electrical and Heating), A.P.T. I, £500 × £20 to £580 p.a.

2580 p.a.

(c) JUNIOR ARCHITECTURAL ASSISTANTS
(FOUR), Misc., I/III, £345-£485 p.a.

All posts are permanent, subject to the National
Scheme of Conditions of Service, the Local
Government Superannuation Act, and to a medical examination.

examination.

Intending applicants are to apply for form, stating for which post they wish to apply, to the County Architect, County Hall, March, to whom they must be returned not later than Saturday, 31st December, 1955.

R. F. G. THURLOW, Clerk of the County Council.

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COUNTY BOROUGH OF MERTHYR TYDFIL.
BOROUGH ENGINEER, SURVEYOR AND
TOWN PLANNING OFFICER'S DEPARTMENT.

(a) Two permanent SENIOR ENGINEERING
ASSISTANTS (Public Works Section) on maximum of A.P.T., Grade IV (£825 p.a.).

(b) One permanent SENIOR ENGINEERING
ASSISTANT (Planning Department) on maximum
of A.P.T., Grade IV (£825 p.a.).

(c) One permanent SENIOR ARCHITECTURAL
ASSISTANT on maximum of A.P.T., Grade IV
(£825 p.a.).

2825 p.a.).
Applications are invited for the above appointments.

Applications are invited for the above appointments.

Applications are invited for the above appointments.

HOUSES WILL BE PROVIDED IF RE-QUIRED AND REASONABLE REMOVAL EXPENSES WILL BE PAID.

Applicants for appointments (a) and (b) must be Corporate Members of a chartered institution, and should have had good all-round municipal engineering experience. Applicants for appointment (b) should have had experience in a Planning Office.

Applicants for appointments for appointment (b) should have had experience in a Planning Office.

Applicants for appointment (c) must be Associate Members of the Boyal Institute of British Architects, and must have had good all-round experience in the architectural work usually undertaken by a local authority. Planning experience would be an advantage.

The appointments are subject to the provisions of the Local Government Superannuation Acts and to the passing of a medical examination. They are terminable by one month's notice on either side.

The applications, stating age, past and present appointments, qualifications and experience, together with copies of three recent testimonials, should be delivered to the undersigned not later than Saturday, 14th January, 1956.

Canvassing in any form will disqualify.

Town Hall. Merthyr Tydfil.

COUNTY BOROUGH OF EAST HAM.

Town Hall, Merthyr Tydfil.

COUNTY BOROUGH OF EAST HAM.
THREE ARCHITECTURAL ASSISTANTS

(A.P.T. V).

Applications are invited for the above appointments in the Housing Department, at salaries in accordance with Grade A.P.T. V (£750×£30-£900), plus London weighting.

The Department has an extensive and interesting programme of mixed development of houses, flats and shops, and the re-development of slums, including multi-storey flats.

Further details and forms of application (returnable by 6th January, 1956), from the Town Clerk. Town Hall, East Ham, E.6.

S009

CITY OF NOTTINGHAM

HOUSING ARCHITECTS' DEPARTMENT
Applications are invited for the following appointments:—
(a) ASSISTANT ARCHITECT, A.P.T. Grade V.
4759 × 230—2900).
(b) ASSISTANT ARCHITECT, Special Grade (£656) × £25—£75).
(c) ARCHITECTURAL ASSISTANT, A.P.T.
Grades I & II (£500 × £20—£640).
A.P.T. Grades I & II (£500 × £20—£640).
A.P.T. Grades I & II (£500 × £20—£640).
Applications for (a) from Registered Architects, for (b) from persons who have passed Parts I and II of the R.I.B.A. Final or Special Final Examination, for (c) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination, and for (d) from those who preferably have passed the R.I.B.A. Intermediate Examination.

Fig. 1. The Country of the City Housing Architect, The Guildhall, Nottingham, by 3rd January, 1956. stating age, qualifications, experience, present appointment and salary, and naming two referees.

Town Clerk.

The Guildhall, Nottingham.

The Guildhall, Nottingham.

LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
Vacancy for ARCHITECT Grade I (21.134 to
£1,296) to lead a group in the Housing Division.
Qualifications—A.R.I.B.A. or R.I.B.A. Final Exam.
Should be good designer with experience in controlling staff and organising and supervising largescale building contracts.
Details and application form, returnable by 4th
January, 1956, from Architect (AR/EK/HI/4),
County Hall, S.E.1. (2060)

Applications are invited for the position of ARCHITECTURAL ASSISTANT in the Distribution/Construction Section of the Chief Engineer's Department at Waterloo Street, Glasgow. Applicants should have had several years experience in an architect's office, and have passed the intermediate examination of the Royal Institute of British Architects. They should be capable of preparing detail drawings and specifications of Building Works including showroms, stores, garages, workshops and offices.

Salery will be in accordance with National Joint Board Schedule "C," Class AX/DX, Grade V e675/4260 per annum.

The position is superannable. Application should be made on the standard application form, which may be obtained from the undersigned, and returned not later than 5th January, 1956.

J. MEEK, Secretary.

P.O. Box 173, 351 Sauchiehall Street, Glasgow, C.2. 30th November, 1955.

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BOROUGH OF LOWESTOFT
APPOINTMENT OF
SENIOR ARCHITECTURAL ASSISTANT
Applications are invited for Senior Architectural
Assistant. Salary according to Special Classes
Grade £650 × £25—£775 per annum, according to
experience and qualifications. Housing accommodation is available if required. Car allowance
at the lower rate for casual users is payable.
The appointment is superannuable and is subject
to:

The appointment is superannuable and is subject to:

(b) The National Conditions of Service
(b) One month's notice on either side
(c) Satisfactory medical examination
Applications, stating age, qualifications, present and past appointments, and giving names of two referees who will testify as to ability and experience, must reach the undersigned by 12 noon on Monday, 2nd January, 1956. Applicants must disclose whether or not they are related to any member of or the holder of any senior office under the Corporation. Canvassing will disquality.

F. B. NUNNEY,

Town Hall

Town Hail, Lowestoft. 14th December, 1955.

Applications are invited from persons of not more than 45 years of age for the post of ABCHITECT CLASS I, Housing Architect's De-

partment.
Qualifications: A.R.I.B.A. and experience in the design and planning of Housing Estates, particularly flats and other ancillary buildings.
Salary: £680 × £25-£980 × £15-£996 (under

Balary: 2680 × £25-£980 × £15-£990 (unuc) review).

The commencing salary will be determined in the light of the appointer's qualifications, ability and experience. Superannuation contributions of approx. 6 per cent. of salary will be payable. Reciprocal pension arrangements exist between Belfast Corporation and other authorities in Great Britain and Northern Ireland.

Canvassing will disqualify.

Application forms, etc., are obtainable from the Housing Architect. 94 Chichester Street, Belfast. Completed application forms must reach the undersigned by Tuesday, 3rd January.

JOHN DUNLOP.

Town Clerk.

City Hall, Belfast, P.O. Box 234. 6th December, 1955.

City Hall, Bellast, P.O. Box 234.

6th December, 1955. 6006

BOROUGH OF BEDFORD APPOINTMENT OF CHIEF ASSISTANT ARCHITECT Grade A.P.T. VI—VII (£225 to £1,100)
Applications are invited for the above appointment from Chartered Architects who should be suitably experienced, including service with a Local Authority.

The Council have in hand a considerable programme of works including two-storey housing multi-storey flats, the design of a new Municipal Office Block and extension to the Museum. There is also in progress work in the planning of redevelopment areas, together with many services and other developments, consequent upon the growth of the Borough.

THE COUNCIL ARE PREPARED TO ASSIST EGGARDING THE PROVISION OF HOUSING AND ARE PREPARED TO PAY REMOVAL EXPENSES.
Forms of application and particulars of the appointment may be obtained from the undersigned, by whom applications should be received not later than Monday, 2nd January, 1956.

F. W. DAWKES.

Borough Engineer & Surveyor.

The Borough Engineer & Surveyor.

Newnham House,

Horne Lane,

Bedford.

LONDON COUNTY COUNCIL

Vacancy for AREA OFFICER (£945-£1.134) to be responsible for the efficient running of an area of London in respect of maintenance, repair and small improvements of Council buildings other than housing. Work carried out partly through contractors and partly by direct labour. A.R.I.B.A. or A.R.I.C.S. desirable. Particulars and application form returnable by 10th January. 1956, from Architect (AR/EK/AO/3), County Hall, S.E.I. (2067)

CITY OF CARDIFF EDUCATION COMMITTEE COLLEGE OF TECHNOLOGY & COMMERCE In association with the University of Waies. Applications are invited for a LECTURER and STUDIO INSTRUCTOR in the Welsh School of Architecture, to be responsible for part of the davanced work in Design and Construction of the diploma and degree courses. Candidates must be Associates of the R.I.B.A. and have high academic qualifications. Some professional and good teaching experience is essential.

The salary will be in accordance with the 1954 Burnham Report, i.e., 1965 × 125-11,065.

Forms of application, together with further particulars, may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope, and should be returned as soon as possible.

ROBERT E. PRESSWOOD,

ROBERT E. PRESSWOOD, Director of Education. City Hall, Cardiff.

Cardin. 6010

KENT COUNTY COUNCIL requires a SENIOR
ARCHITECTURAL ASSISTANT in the Central
Office of the PLANNING DEPARTMENT at
Maidstone. Salary within grade £675—4900 per
annum. Candidates must be Chartered Architects.
The duties will comprise all three-dimensional
design matters dealt with in the Department and
could be wider if the successful candidate had a
planning qualification.
National Scheme of Conditions of Service applies
and registered disabled persons will be considered.
Applications, together with names of two
referees, must reach the County Planning Officer,
County Hall, Maidstone, not later than 12th
January, 1986.

referes, must reach the County Planning Officer. County Hall, Maidstone, not later than 12th January, 1956.

CITY OF ROCHESTER.

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

(a) CHIEF ARCHITECTURAL ASSISTANT, A.P.T. IV.Y (£675—£900).

(b) ARCHITECTURAL ASSISTANT, A.P.T. III (£500—£725).

Position (a) is the Senior in the Architectural Section. Candidates should be Associates of the Royal Institute of British Architects, and administrative ability is essential in addition to a good general experience, particularly in the preparation of drawings and specifications for municipal housing, including shops and flats. Commencing salary will be according to qualifications and experience. Landidates for position (b) should have general experience, including the preparation of drawings and specifications for Municipal Housing Schemes. Preference will be given to candidates who are Registered Architects.

In appropriate cases the City Council will provide the successful candidates who are Registered Architects.

In appropriate cases the City Council will provide the successful candidates with suitable housing accommodation.

The appointments will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation; one month's notice on either eide.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, 66, Maidstone Road, Rochester, not later than Wednesday, 4th January, 1956.

PHILIP H. BARTLETT.

Guildhall, Rochester.

7th December. 1955.

Maissione Road, Mochester, not later than Wednesday, 4th January, 1956.

PHILIP H. BARLETT.

Guildhall, Rochester.
7th December. 1955.

FOUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

COUNTY PLANNING DEPARTMENT.

APPOINTMENT OF SENIOR PLANNING

ASSISTANT, BARNSLEY.

Applications are invited for the appointment of a Senior Planning Assistant to the staff of the Area Planning Office, Barnsley, within the salary grade 2675—4225.

Applicants should be Corporate Members of the Town Planning Institute or hold an equivalent qualification, and should have had considerable experience in a Planning Office.

Applications, stating age, qualifications and experience, together with the names of two referees, should reach the undersigned not later than the 31st December, 1955.

3RTHUR BATES,
APPLIVE SATHUR BATES,
COUNTY PLANNING DEPARTMENT
APPLICATION ASSISTANT (ARCHITECT)
A.P.T. IV (£675—2225).

(b) JUNIOR ASSISTANT (ARCHITECT)
A.P.T. II (£506—2640).

Applicants for Post (a) should have passed the final examination of the RIBA. The appointments offer opportunity for experience in the layout and design of estates, schemes of redevelopment and the detailing of prorosals in central areas. Knowledge of statutory olanning procedure will be an advantage and oreference will be given to applicants not madeling the procedure will be an advantage and oreference will be given to applicants who in addition to the above hold a planning qualification.

Applicatione, together with one testimonial and the names of two referees, to reach the County Planning Officer, & Bold Lane, Derby, not later than January 16th, 1956.

WARWICKSHIRE COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
Following the reorganisation of the department, applications are invited for the following appointments on the permanent staff. The programme of work in hand is wide and varied, giving scope to men with a contemporary outlook, and offering experience in many of the latest forms of construction.
The following posts are available:—
(a) GROUP ARCHITECTS. Grade VII (£900—£1,100). Applicants must be competent designers and have the ability to lead and organise a team of Architects. Experience in site supervision and the handling of large contracts is essential. One post will deal with minor works and the housing programme.

contracts is essential. One pust with minor works and the housing programme.

(b) ARCHITECTS, Grade V (£750-£900). Applicants must be competent designers, have a knowledge of modern methods of instruction and be capable of handling large building projects from sketch plan stage to completion.

(c) ARCHITECTS, Grade IV (£675-£825). Applicants must be competent designers, have a good knowledge of construction and be capable of handling medium-sized contracts.

(d) ASSISTANT ARCHITECTS-Scale-£650-£775. Applicants will work in teams on large projects, but the opportunity will be given to men with enthusiasm and ability to design and carry out smaller projects under the Group Architect.

The commencing salary can be within the grades according to ability and experience. All appointments are on the established staff and subject to the Conditions of the Local Government Superannuation Acts, 1937—1953. Successful candidates will be required to pass a medical examination.

Applications are to be on forms, which can be obtained from G. B. Bernsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS.

Shire Hall,
Warwick.

Solution December, 1955.

BOROUGH OF RICHMOND (SURREY)
Applications are invited for the following appointments on the established staff of the Borough Engineer and Surveyor:—

(a) Two fully qualified ASSISTANT ARCHITECTS—A.P.T. Grade I.V. £675—£255 plus appropriate London Weighting.

(b) One ARCHITECTURAL DRAUGHTSMAN—A.P.T. Grade I. £500—£580 plus appropriate London Weighting.

Applications, naming two referees, to be delivered to the Borough Engineer and Surveyor, Both Month House, Heron Court, Bichmond, Surrey, by 9th January, 1956.

Canvassing will disqualify. Relationship, if any, to members of the Council or Senior Officers must be stated. No assistance with housing.

CLIFFORD HEYWORTH.

Town Clerk.

Town Hall,
Richmond,
Surrey.

STAFFORDSHIRE COUNTY COUNCIL
EDUCATION COMMITTEE
Applications are invited in respect of the following appointments. The department has a large programme of interesting work; lodging allowances for married men maintaining a home outside the geographical county.
ARCHITECTS. Qualified, Grade A.P.T. V (£750-£900 p.a.).
ARCHITECTS. Grade A.P.T. IV (£675-£825 p.a.).

ARCHITECTS. Grade A.P.T. IV (£675-£285).

JUNIOR ARCHITECTURAL ASSISTANTS.
Salaries according to qualifications and experience.

HEATING ENGINEERS. Salary A.P.T. IV (£675-£285 p.a.).

Forms of application from the County Education Architect. "Green Hall," Lichfield Road, STAFFORD.

To be returned within 10 days of this advertisement.

THEVANS.

ment.
T. H. EVANS,

Clerk of the County Council.

A/Staff Advt./201/KEF 5069

A/Staff AGVI./201/KEF

EAST SUFFOLK COUNTY COUNCIL COUNTY PLANNING DEPARTMENT Applications are invited for the appointment of Chief Planning Assistant, APT IV (£675 to £25) with car allowance in the essential user class

2825) with car allowance in the essential user class.

The person appointed will be in charge of the Drawing Office and must have had wide experience in the preparation of Development Plans and the collection and collation of survey material.

The County Development Plan was approved in 1983 and will be reviewed shortly. This fact lends special interest to the appointment.

Candidates must have passed or obtained exemption from the Final Examination of the Town Planning Institute.

Applications, including the names of two referees, must be received by the County Planning Officer, County Hall, Ipswich, not later than January 14th, 1956.

SURREY COUNTY COUNCIL.

Surrey County Council.

Applications invited for appointment of ASSISTANT QUANTITY SURVEYOR, GRADE IV. 2675 × 230-2825 p.a., plus London allowance. Should be Associate Member B.I.C.S.

Full details and present salary, with three copy testimonials to County Architect, County Hall, Kingston, as soon as possible.

COUNTY OF CORNWALL

APPOINTMENT OF ASSISTANT PLANNING

APPLICATIONS are invited for this appointment in the County Planning Department Headquarters, Truro. Salary will be Grade A.P.T. V 2750—1900) with initial salary according to qualifications and experience. Candidates must be Associates of the Royal Institute of British Architects and preference will be given to those who are also Associate Members of the Town Planning Institute.

The successful candidate will be required to provide a motor car for official travelling, for which a mileage allowance will be paid. The customary service conditions of the Local Government Service will apply.

Full details of the appointment can be obtained from the COUNTY PLANNING OFFICER, to whom applications, together with the names and addresses of three referees should be addressed, at the County Hall, Truro, not later than the 7th January, 1956.

Clerk of the County Council.

TEMA DEVELOPMENT CORPORATION—
GOLD COAST
Vacancies exist in connection with the development of a New Town at Tema in the Tema Development for QUANTITY SURVEYORS and a TOWN PLANNER. The appointments are on contract and the salary scale for both posts is £1,503 × £50—21,503 ; £1,600 × £60—42,020, point of entry depending on qualifications and experience.

both posts is £1,030 × £50—£1,530; £1,600 × £60

£2,020, point of entry depending on qualifications and experience.

QUANTITY SURVEYORS must be Fellows or Associates of the Royal Institution of Chartered Surveyors Quantity Surveying Division), or possess equivalent qualifications and must have had a minimum of 3 years experience. Duties include the preparation of Bills of Quantities and specifications in respect of works connected with the Corporation's development programme; analysis of prices from Civil Engineers' and Architects' plans; the preparation of approximate estimates for development works and the administration of contracts.

TOWN PLANNER must be corporate member of the Town Planning Institute and must have had experience in the preparation of development plans and in the control of development.

Applications should be sent immediately to the Adviser on Recruitment, Gold Coast Office, 13, Belgrave Square, London, S.W.1.

DURHAM COUNTY COUNCIL PLANNING DEPARTMENT

ARCHITECTIRAL ASSISTANT—Salary £650—£75. Applicants must be members of the Royal Institute of British Architects.

PLANNING ASSISTANT—Salary A.P.T. II £560—£649. Applicants must have passed the Intermediate Examination of the Town Planning Institute.

PLANNING ASSISTANT-Salary A.P.T.

Forms and particulars from the County Planning Officer, 10 Church Street, Durham. Closing date 12th January, 1956.

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

Clerk of the County Council.

6000

SURREY COUNTY COUNCIL
COUNTY PLANNING DEPARTMENT
Applications are invited for the following appointments:

(4) SENIOR
PLANNING ASSISTANT, on
A.P.T. Grade V (£750 × £30-£900 plus London weighting). (Headquarters Staff at
Kingston.) Applicants should be suitably
qualified and have had considerable experience in the control of development under the
1947 Act, and in the preparation of Development Plans.

(b) ASSISTANT PLANNING OFFICER, on
A.P.T. Grade 1 (£500 × £20-£580) (NorthWest Area Planning Office at Woking).
Applicants should be good draughtemen, preferably with Local Government experience.
Applications, with full particulars of age, qualifications, present employment and experience, with
the names of two referees, must reach the Clerk,
Surrey County Council, County Hall, Kingstonupon-Thames, not later than 9th January, 1956.

COUNTY OF THE WEST PIDING OF

COUNTY OF THE WEST RIDING OF

YORKSHIRE.
OFFICE OF THE COUNTY ARCHITECT
Applications are invited for the appointment of
JUNIOR ARCHITECTURAL ASSISTANT in the
Harrogate Divisional Office. Salary range £500—
£500, A.P.I. I.
Candidates should be good draughtsmen.
The appointment is subject to the Local
Government Superannuation Acts, to a medical,
and to the Council's Conditions of Service.
Applications, on forms obtainable from this
office, should be submitted not later than Monday,
2nd January, 1956.

HUBERT BENNETT.

HUBERT BENNETT,
County Architect.
Bishopgarth, Westfield Road, Wakefield. 5090

LONDON COUNTY COUNCIL.
ARCHITECT'S DEPARTMENT.

Vacancies for ARCHITECTB, Grade III (up to £783), for widespread construction programme, which includes houses, blocks of fast, schools of all types, and various public and industrial buildings. Application forms and particulars from Architect (AR/EK/A/2), The Cenaty Hall, S.E.I. (1189)

DORSET COUNTY COUNCIL require ASSISTANT ARCHITECT (Scale £650 × £25—£775 per annum) for Education building programme. Candidates must be A.R.I.B.A., previous local government experience not essential. Application forms from the Clerk, County Hall, Dorchester, to be returned by 31st December. 5091

COUNTY BOROUGH OF HASTINGS
ARCHITECTURAL ASSISTANT
GRADE A.P.T. II
(GRADE A.P.T. II
Applications are invited for the above appointments in the Borough Engineer's Department.
The appointments will be subject to the National Scheme of Conditions of Service, the passing of a medical examination and to one month's notice in writing on either side.
Applications, stating age, qualifications, experience, present and previous appointments and salary, accompanied by copies of not more than three testimonials, should be forwarded to the Borough Engineer, 37 Wellington Square, Hastings, not later than the 7th January, 1956. Canvassing will be a disqualification.

N. P. LESTER,
Town Clerk.

Architectural Appointments Vacant 4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment is excepted from the provisions of the Netification of Vacancies Order, 1952.

A RCHITECTS' CO-PARTNERSHIP require ASSISTANT in their Lagos office. Maximum tour 14 months. Flat provided. Write 44, Charlotte Street, London, W.1, or telephone Langham 5791.

A RCHITECTS' CO-PARTNBRSHIP require qualified ASSISTANT with experience. Write 44. Charlotte Street, London, W.1, or Telephone Langham 5791.

ENIOR SHOPFITTING DRAUGHTSMAN required by leading London Shopfitters. Salary £800 to £1,000, plus bonus and pension scheme. Box 3018.

WANTED urgently: Capable DRAUGHTS
MEN for preparing working drawings of
industrial buildings from sketch designs. Salary
according to experience. Write or telephone to
Percy Bilton Ltd., 113, Park Street, W.1. Telephone number MAYfair 8240.

BUSY London Office requires two ARCHITECTURAL ASSISTANTS, approximately Intermediate standard or upwards. Also requires one ASSISTANT with considerable perspective experience, particularly able to do quick interior colour sketches. Five-day week, good salaries. Lewis Sclomon. Son & Joseph. 21, Bloomsbury Way, W.C.1, HOL 5108 or 7082.

A RCHITECTURAL ASSISTANTS, Senior and Junior required, preferably with London practice experience, office and factory buildings. Write, giving particulars of experience, etc., to Messrs. Bates & Sinning, 89, Chancery Lane, W.C.2.

EDINBURGH.—Senior and Intermediate ASSISTANTS required. Write, giving particulars of experience and salary required, to Meesrs. David Carr & Stuart Matthew, 14, Lynedoch Place Ediaburgh, 3.

JUNIOR ASSISTANT, competent to make measured surveys and prepare working drawings, required by Wallis & Smith, Chartered Architects, Basingstoke. Apply by letter, stating salary required.

A BCHITECTURAL ASSISTANTS (2) required in City Office with a wide and comprehenive range of commissions. Selary range £611—£161. Seely & Paget. CENtral 0321.

A RCHITECTURAL ASSISTANTS, with approx. 5 years' office experience, required for West End Architect's office engaged on large office building and cinema contracts. Commencing salary £625. 'Phone Whitehall 1624 for appointment.

JAMES & BYWATERS urgently require ASSIS-TANT, of Intermediate standard or higher, for detailing various types of buildings. Salary according to experience and qualifications, Apply in writing to 5, Bloomsbury Street, W.C.1. 4963

A RCHITECTURAL ASSISTANTS required immediately. Pre-Intermediate to Final stage. Interesting work, Alternate Saturdays. Bonus scheme. Salary according to ability. Expenses paid for interview. Write full details with age. J. Roland Sidwell, A.R.I.B.A., 27, Union Street, Coventry.

Coventry.

B EQUIRED.—ONE JUNIOR ASSISTANT-and ONE ASSISTANT of Intermediate standard. Please reply to P. A. Cranswick, Esq., A.R.I.B.A., A.M.T.P.I., 36, Sackville Street, London. WI. 5071

A RCHITECTURAL ASSISTANTS urgently required for detailed planning work. Intermediate and Junior. Salary according to experience. Please apply to L. O. L. Hannen & John H. Markham, 7. Victoria Street, Westminster. S.W. L. Tol. Abbey 5861.

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RONALD WARD & PARTNERS require several capable ARCHITECTURAL ASSISTANTS, with contemporary outlook and willing to use own initiative. Salary range £400 to £800. Interesting and varied work, home and abroad. Congenial working conditions. Apply 29, Chesham Place, Belgrave Square, S.W.I. Telephona Belgravia 3361.

CO.OPER ATTURE 3865
CO-OPERATIVE WHOLESALE SOCIETY LITE
ARCHITECT'S DEPARTMENT, MANCHESTER
APPLICATIONS are invited for the following
appointments:

A appointments:—
(a) SENIOR ASSISTANT ARCHITECTS, with experience of work on commercial and industrial

experience of projects.
(Salary range £320 to £975 per annum.)
(b) ASSISTANT ARCHITECTS, capable of preparing working drawings from preliminary drawings.

details.

(Salary range £550 to £820 per annum.)

There is a five-day week in operation, and both appointments offer prospects of upgrading.

Applications, stating age, experience, qualifications and salary required, to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4, 3871

CO-OPERATIVE WHOLESALE SOCIETY, LTD.,
ARCHITECT'S DEPARTMENT.
LONDON.
AND SHOP FITTING DRAUGHTSMAN.
Applications are invited from suitably qualified persons. Salary on a scale £485-£496 inclusive of L.W., with placing according to age, qualifications and experience. The posts are superannuable, subject to medical examination. Five-day week in operation, Applications, stating age, experience, qualifications and salary required, to.—W. J. Reed, F.B.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1.

THE GLASGOW SCHOOL OF ARCHITECTURE.

Street, London, E.1.

Street, London, E.1.

2824

THE GLASGOW SCHOOL OF ARCHITECTURE.

THE Governors of the Glasgow School of Art

invite applications for the post of SENIOR
ASSISTANT in the Department of Architecture.

Previous teaching experience, though desirable, is not essential. Salary scale: £940×£50 to £1.99

per annum, with placing according to qualifications and experience. This scale is at present under revision, and the successful applicant will receive the benefit of the Revised Salary Scale.

An aptitude for lecturing on the History of Architecture will be a strong recommendation for the post. Further information and particulars, with form of application, may be obtained from W. H.

Masson, Secretary and Treasurer, The Glasgow School of Art, 167, Renfrew Street. Glasgow, C.3.

SENIOR ASSISTANTS required for University and Hospital work, Good salary, dependent on experience. Non-contributory pension scheme in being after probationary period. Three weeks' holiday a year, and 5-day week. Reply, stating age and experience, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 5073

ESTABLISHED firm of Architects, with large and expanding practice in West of England, requires able and experienced ARCHITECT (qualified R.I.B.A.), as office manager, with view partnership. Must have sound business acumen and be able to take part control, if necessary. Apply Box 5072.

Apply Box 5072.

CHIEF ARCHITECT required by New Ideal
Homesteads, Ltd. Experienced Architect
required to deal with design of houses,
maisonettes, flats, shops and conversions. mainly
greater London area. Progressive and permanent
position, good salary and superannuation scheme.
Detached house Epsom area available. Comprehensive details to Managing Director, New Ideal
Homesteads, Ltd., 61, South Street, Epsom,
Surrey.

WILLIAM HOLFORD & PARTNERS require ASSISTANT, experienced in preparation of working drawings and details. Salary £650-£750 p.a. Write, stating age and experience, to 2, Angel Court, Throgmorton Street, E.C.2. 5068

Angel Court, Throgmorton Street, E.C.2. 5068

PRITISH EUROPEAN AIRWAYS require ASSISTANT to Industrial Designer to work under the direction of the Industrial Designer in the development of design policy. Applicants should be Members of the Society of Industrial Artists, with Architectural background. They should have at least 5-10 years' general design and administrative experience on the application of Industrial Design generally, including interior design, use of colour and typography, and be able to prepare working drawings and supervise work in progress. Salary £905 to £1,120 p.3. Applications, giving full details of age, qualifications and experience, to Personnel Officer, B.E.A., Dorland House, Regent Street, S.W.1.

A RCHITECT, qualified, required by Scottish Special Housing Association, Ltd. Salary scale £615×£30-£915, with placing for age on entry up to £795 at age 31. The post is superannuable under the Local Government Superannuation Acts. Application forms, with full particulars, can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12.

A RCHITECTURAL ASSISTANT required by City firm of Architects and Surveyors dealing principally with commercial and industrial buildings and multiple retail shops. At least Inter. R.I.B.A. or R.I.C.S. standard. Good draughtsmanship essential. Please roply, giving details of past experience and salary required, to Vigers & Co., 4. Frederick's Place, Old Jewry, E.C.2.

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A RCHITECTURAL ASSISTANT, of Intermediate or Final standard, required by Braithwaite

A RCHITECTURAL ASSISTANTS, qualified

A Jackman, F.R.I.B.A. Applications, stating
qualifications, age, and experience, should be
addressed to 7, South Parade, Leeds, 1. 5086

A RCHITECTURAL ASSISTANT, of Intermediate or Final standard, required in large
graphical standard, required in large
required. Box 5084.

required. Box 5084.

A RCHITECTURAL ASSISTANT required by firm of Contractors and Estate Developers operating in Bucks, Berks, and Oxon. Must be capable of carrying out site surveys, preparing working drawings and details. Experience of Estate layout an advantage. Salary range £550-£550, according to age and experience. Box 5083.

A RCHITECTURAL ASSISTANTS required—a Senior and a Junior. Old-established practice. Industrial, domestic and hospital work. Apply in writing, stating age, experience, training, and salary required, to E. William Palmer & Partners, Chartered Architects, 3. The Town, Enfield, Middlesox.

A RCHITECTURAL ASSISTANT required in West End Office; able to take charge of medium-sized jobs, including Churches, Hostels, Factories, etc. Telephone for an appointment, WELbeck 8863, or write Box 4999.

WELbeck 8863, or write Box 4999.

ASSISTANT ARCHITECT with experience required for Manchester office. R.I.B.A. qualification desirable. Interesting post with wide range of work for man of initiative and capacity. Please give details of education, experience and salary required, to Harry S. Fairhurst & Son, Chancery Chambers, 56 Brown Street, Manchester, 2

A SENIOR ARCHITECTURAL DRAUGHTS-MAN of good standing required for varied practice in town office. R.I.B.A. qualification preferred. Interesting post for right man. Please give details of education, experience and salary required, to Harry S. Fairhurst & Son, Chancery Chambers, 55 Brown Street, Manchester. 2. 6063

S. HATTRELL & PARTNERS have vacanfor ARCHITECTURAL ASSISTANTS of Intermediate to Final Standard. Excellent opportunities in varied practice covering a very wide area,
and including Hotels, Theatres, Public Houses,
Schools, Hospitals, also Industrial and Ecclesiastical. Good salaries offered, closely related to
capabilities, and reviewed annually. Pension
scheme available. Travelling expenses paid to
applicants selected for interview. W. S. Hattrell
& Partners, I. Queens Road, Coventry, and 14,
Hanover Square. London, W.1.

A RCHITECTURAL ASSISTANTS required immediately. Birmingham practice. A.R.I.B.A. and Intermediate qualifications. Write, giving full particulars, salary required and when available. Box 5061.

A RCHITECTURAL ASSISTANTS, Intermediate Standard, required for work on development and construction of factory extensions, also on proposed large, new factories in North-East London area. Positions offered are permanent with good opportunities and are pensionable. Modern welfare amenities. Apply, Personnel Superintendent, The Edison Swan Electric Co. Ltd., Coamos Works, Brimsdown, Enfield, Middlesex. 5052

Works, Brimsdown, Enfield, Middlesex. 5082

CO-OPERATIVE WHOLESALE SOCIETY, LTD. ARCHITECT'S DEPARTMENT. BIRMINGHAM. A PPLICATIONS are invited for the following appointments in a newly formed Branch Office. Interesting and varied commercial and industrial projects.

(a) SENIOR ASSISTANT ARCHITECT, with experience in Store and Shop Design.

(Salary range £820 to £95 per annum.)

(b) ASSISTANT ARCHITECTS, capable of preparing working drawings and details from preliminary sketches.

(Salary range £550 to £820 per annum.)

Both appointments offer prospects of upgrading. Applications, stating age, experience, qualifications, and salary required, to G. S. Hay, A.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester, 4, 3872

A RCHITECTURAL ASSISTANTS, Junior and Senior, required early in the New Year in Welwyn Garden City office. Varied work of contemporary character, comprising industrial, commercial and housing projects. Please reply, giving details of age, experience and qualifications, to Chas. W. Fox, 22, Parkway, Welwyn Garden City, Herts.

LONDON Architects, doing interesting work in Ragland, Africa and Middle East, require ASSISTANTS of varying experience at salaries ranging from 2400 to 2800. Bonuses will be paid for really satisfactory work. Five-day week. Luncheon vouchers. Reply Box 4949.

SENIOR and INTERMEDIATE ASSISTANTS required for West End Architect's office engaged upon various projects, including housing, offices, factories, etc. Apply in writing, stating age, qualifications, experience, and salary required, to Box 4902.

ARCHITECTURAL ASSISTANT required by farm in Home Counties. General practice. Apply, stating experience and salary, to Manning & Steel, F.B.I.B.A., 3, George Street West, Luton, Beds.

ARCHITECTURAL ASSISTANTS required, all grades, for contemporary office. Salary according to experience. C. H. Elsom, F.R.I.B.A., 44, Catherine Place, S.W.I. Victoria 4304. 3994

ARCHITECTURAL ASSISTANT, Intermediate standard, required for General Practice. Capable of taking charge of small jobs. Good conditions and salary to smitable applicant. Apply Cessford Ball, 205, Lavender Hill, S.W.II.

Bail, 205, Lavender Hill, S.W.II.

PASIL WARD requires an ARCHITECTURAL
ASSISTANT, between Intermediate and
final standard, preferably with not less than one
year's office experience. Saiary to be agreed.
Apply 32, Wigmore Street, London, W.I., or telephone WELbeck 1409.

CHERRER & HICKS require a number of
ARCHITECTURAL ASSISTANTS immediately. Salary £400—£750 p.a. according to
experience. Five-day week with luncheon vouchers.
Write 19, Cavendish Square, W.I., or telephone
Museum 1105.

ARCHITECTURAL ASSISTANTS.

A BCHITECTURAL ASSISTANTS required for Final standard for work on School, Commercial and Industrial projects. Write, giving brief details of experience and salary required, to Box 5015.

A RCHITECTURAL ASSISTANTS required for good general contemporary work in busy office in the Watford area. Excellent salary for suitable applicants. Write, giving brief details of experience, etc., to Box 5014.

A RCHITECTURAL ASSISTANCE required for interesting and varied work with small but expanding firm in rural area of North Resex. Box 3795.

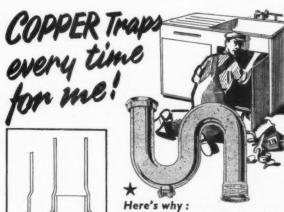


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Copper Traps are the modern way—more sanitary and hygienic, due to the smoothness of the bore.

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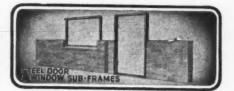
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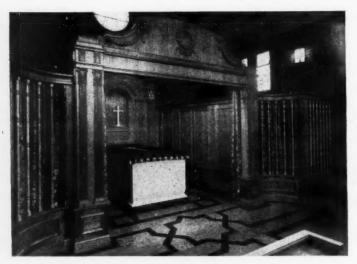




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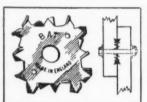
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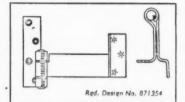
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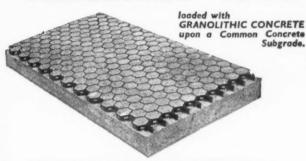
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