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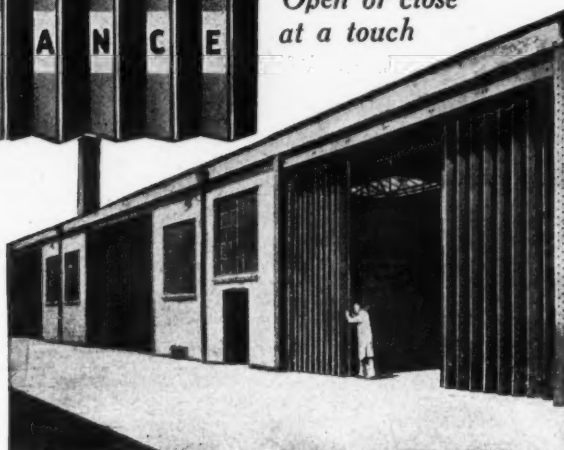
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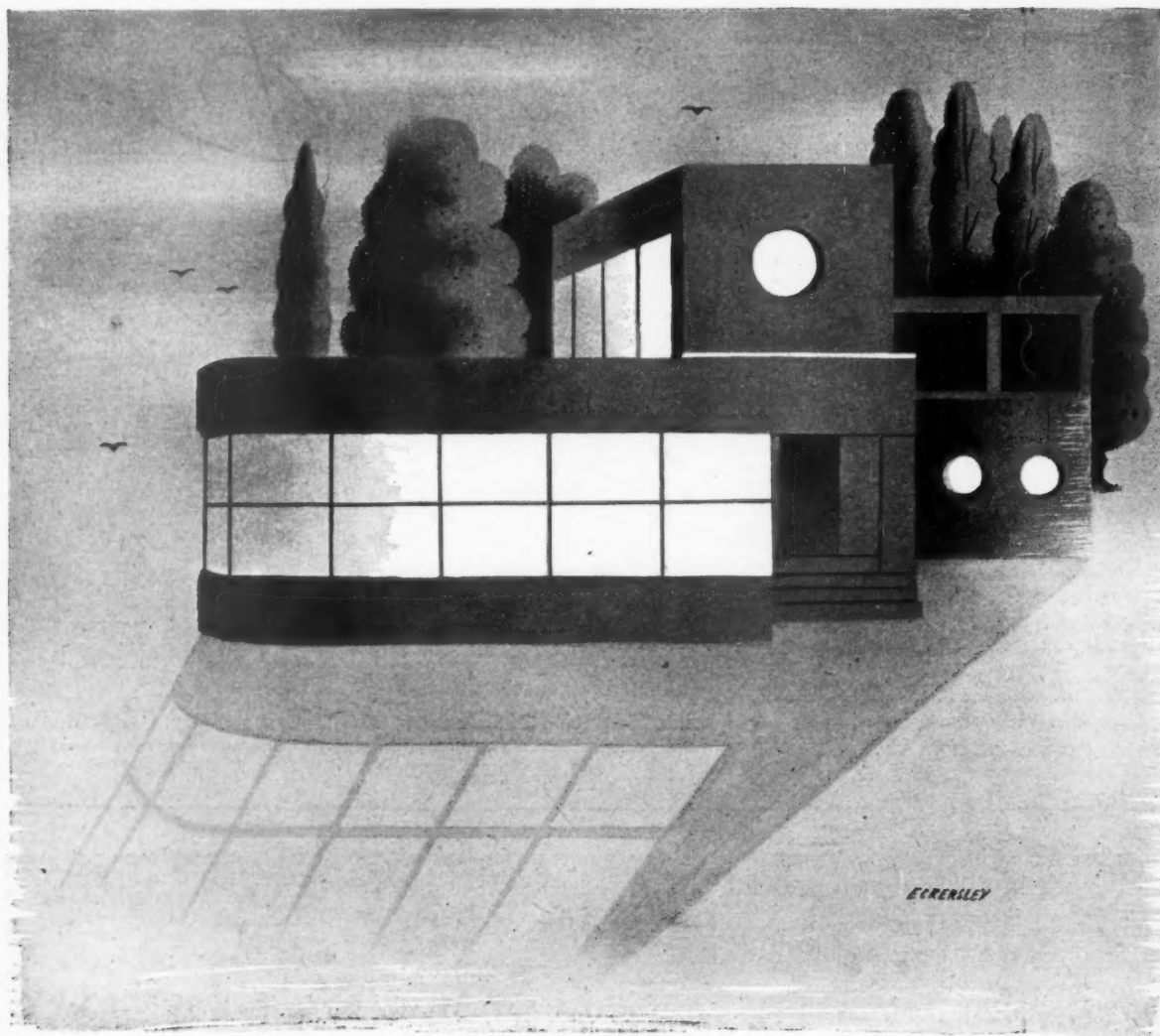
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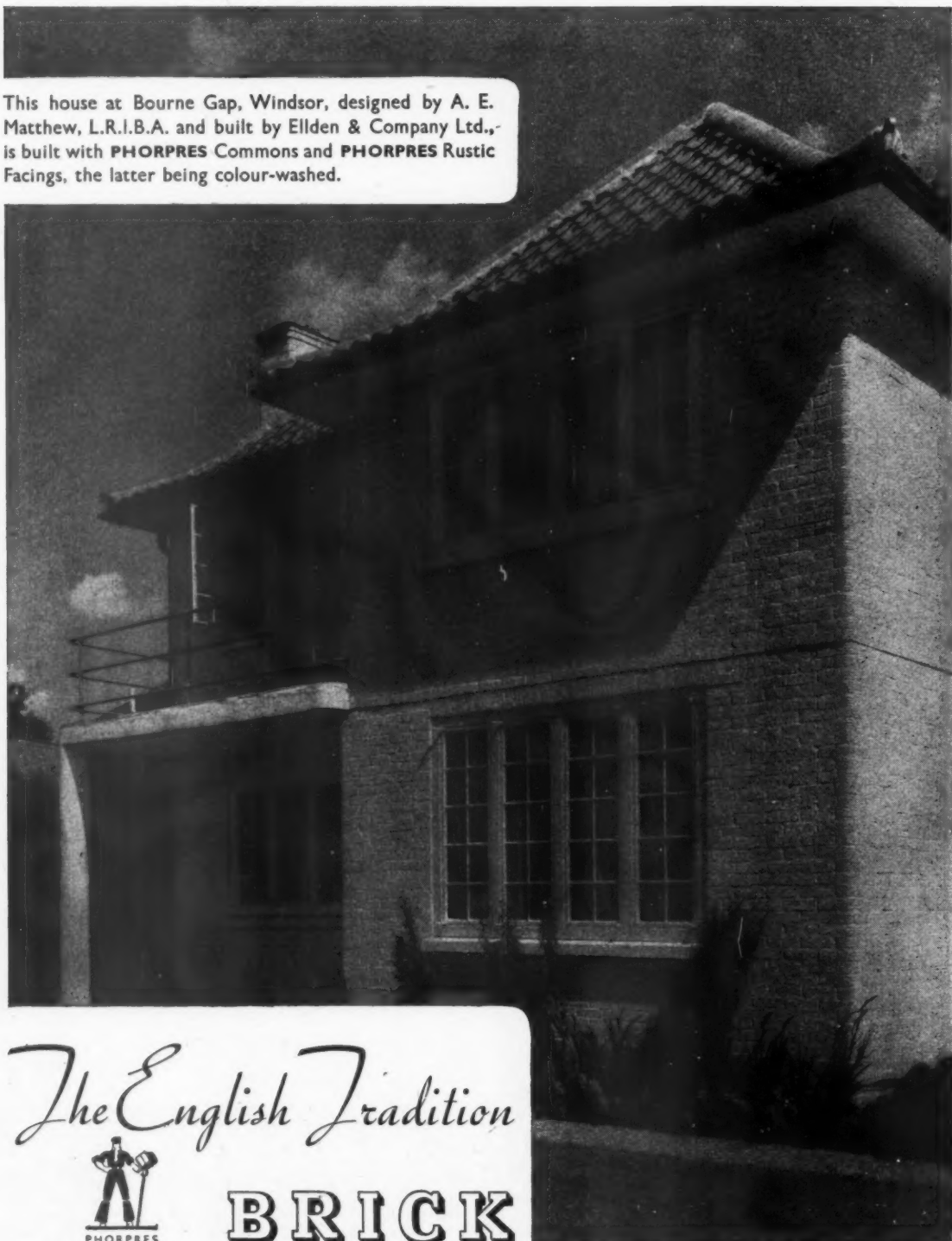
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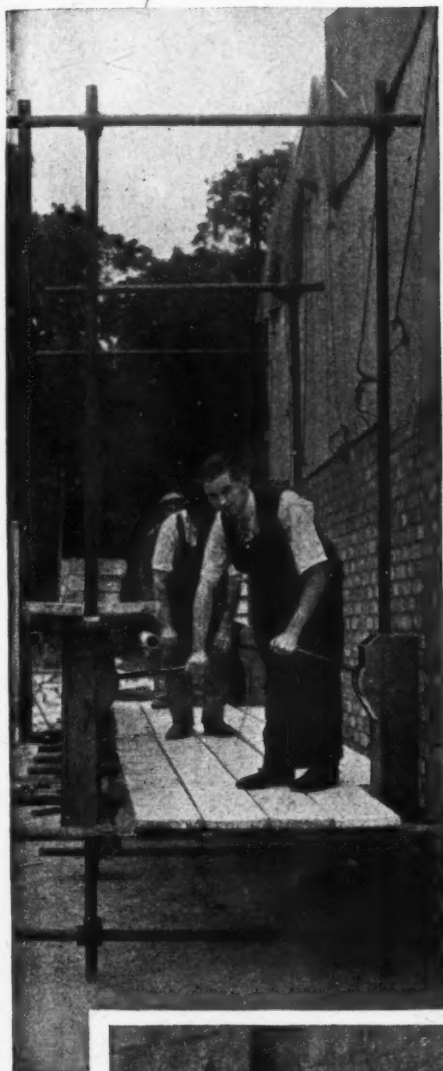
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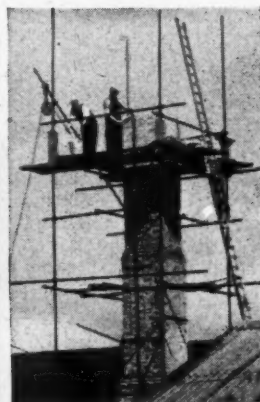
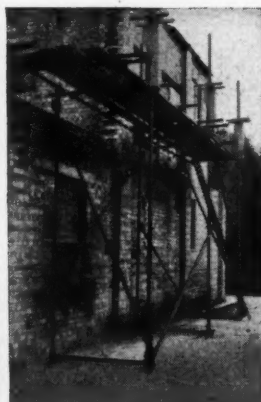
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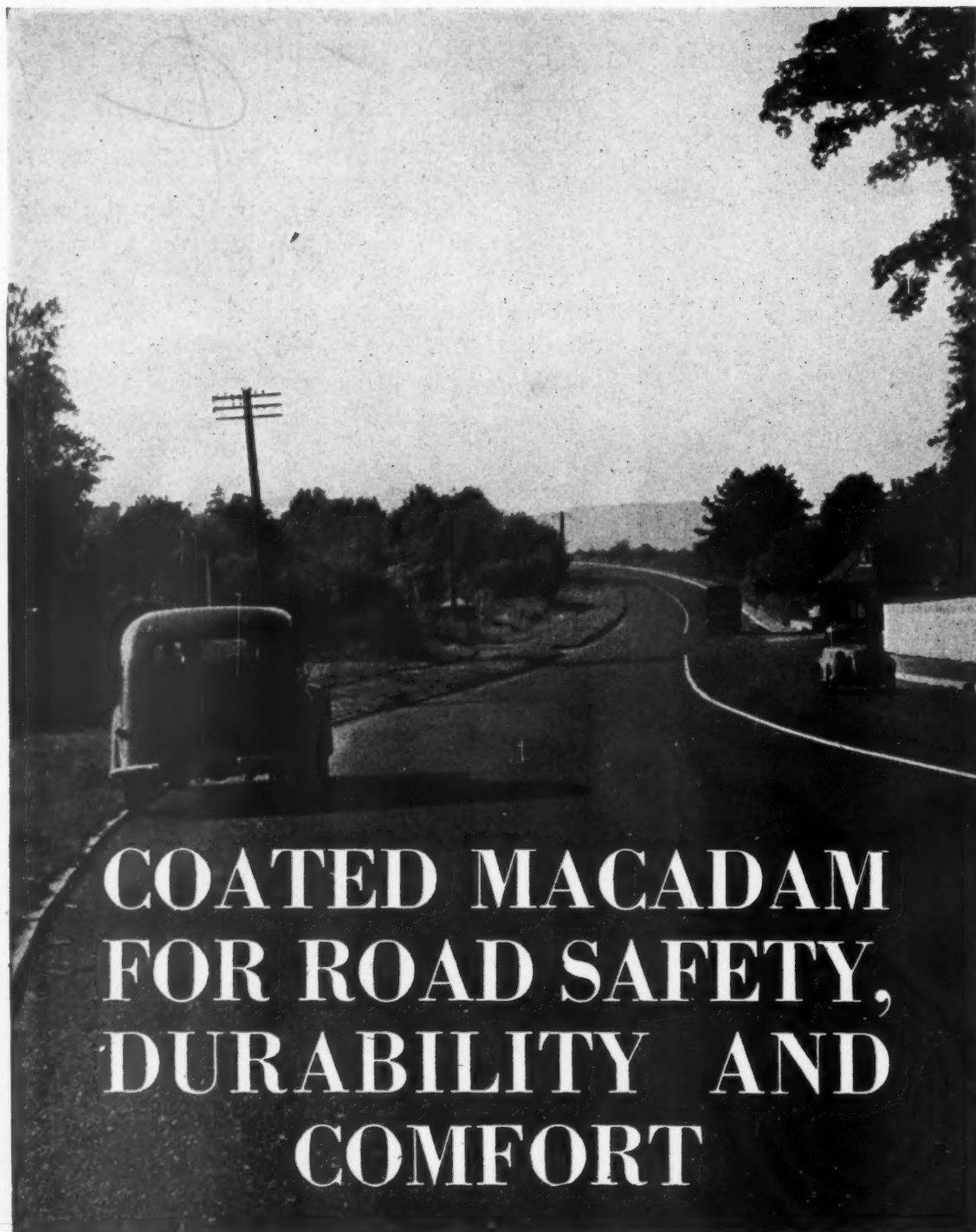
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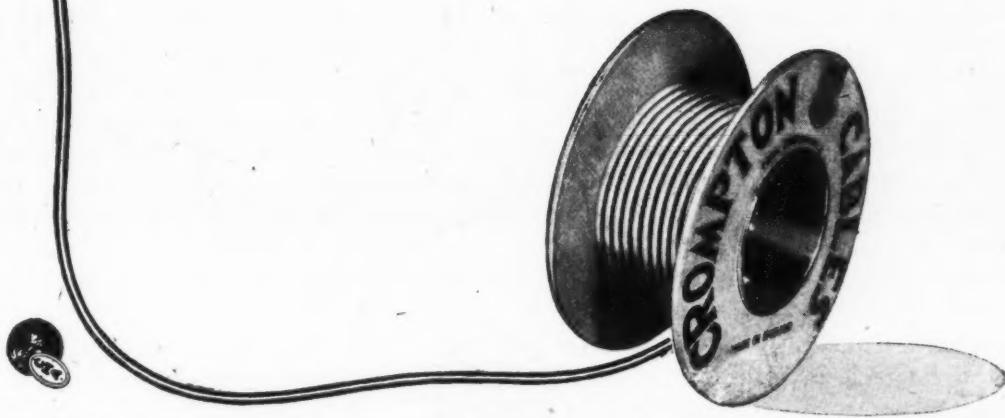
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**T**OBACCO-SMOKING is said to have been introduced into Britain by Sir Walter Raleigh. How many of the millions of smokers today realise how much the satisfaction of their desire for a "smoke" depends upon the chemist? Tobacco is a crop which no less than wheat or coffee needs appropriate fertilisers. The tobacco plants are liable to pests and diseases, many of which must be fought by chemical weapons. The curing and preparation of the tobacco present chemical problems of unexpected complexity. The leaf must be kept in condition from the time it is shipped to its final cutting and blending. The cigarette paper must pass stringent chemical tests. Tobacco by itself, whether in pipe, cigar or cigarette, is of little use without the means to light it. A box of matches is a triumph

of chemical investigation. The striking part of the ordinary match contains a compound of phosphorus and of potassium chlorate. Gum, sulphur, colouring-matter and impregnating substances for the stalk are among other chemicals needed for the manufacture of the humble match and provided by the British chemical industry. It is further to the credit of the industry that cigarette lighters increase in quantity and efficiency. These are a further tribute to chemical research and production from the mixture of cerium and other rare metals in the so-called flint (natural flint does not give nearly enough spark for modern needs) to the material of the ribbed wheel and the petrol refined from natural mineral oils or even, it may be, derived from British coal by the hydrogenation process.



## HOW MUCH OF HIS OUTPUT DO YOU WASTE?

Every uninsulated factory wastes fuel, certainly and inevitably. How much fuel it wastes can be demonstrated mathematically. For example: about 600 tons of additional fuel must be burned every year to make good the heat lost through a corrugated asbestos roof, 100,000 square feet in area. In terms of output, one miner's work for nearly 2 years is wasted as surely as if it were thrown away. Wastage on this scale is uneconomic – and unnecessary. It can be stopped, definitely and permanently, by lining the roof with Celotex cane-fibre insulation applied by means of the Celotex Metal Fixing Systems. Because it prevents heat losses, the

installation of Celotex produces definite results: reduction in the size of the heating plant, lower consumption of fuel, elimination of condensation troubles. And these results all mean one thing: Celotex quickly pays for itself. The table, based on Fuel Efficiency Bulletin No. 12, gives a general picture of the fuel savings which result when steel framed roofs are insulated with Celotex. Our technical department will gladly calculate specific data for your individual needs.

CONSTRUCTION	Uninsulated		Under-Purlin Insulation		Over-Purlin Insulation			
	1/4"	22G	1/4"	22G	1/4"	1/4"	22G	22G
Corrugated Asbestos Cement	1/4"	22G	1/4"	22G	1/4"	1/4"	22G	22G
Corrugated Iron	-	-	-	-	1/2"	1"	1/2"	1"
Celotex Insulating Board	-	-	4"	4"	-	-	-	-
Air Space/Purlins	-	-	1/2"	1/2"	-	-	-	-
Celotex Insulating Board	-	-	-	-	-	-	-	-
Thermal Transmittance "U"	1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.24
Fuel Consumption tons p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
Cost of Heating Plant. Cost £'s	88	94	19	20	22	14	22.5	15
Saving in Plant and Fuel due to Celotex Insulation %			78	79	75	84	76	84

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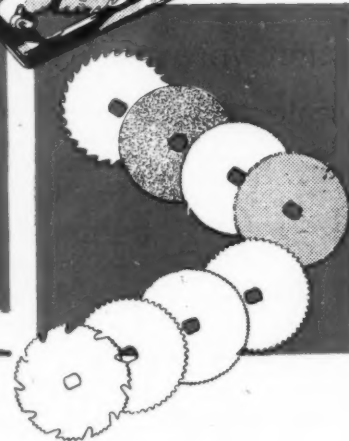
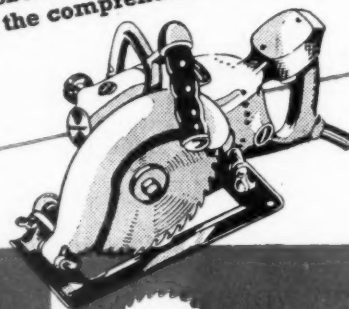


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## FOR THE WORKERS



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It cuts out those wasted minutes before and after the allowed break, and allows the worker to spend the full "break" in the enjoyment of his tea and snack. One van is often sufficient to supply several sites as the tea is normally made at a central station and carried by the van in multipots — the big insulated containers which are industry's vacuum flasks.

The mobile tea service fully proved its value during the war,



both at home and on the various fronts, and the Empire Tea Bureau was often called in to help in the initial planning or in solving problems that arose during the changing conditions.

In the period of reconstruction, tea for the workers will be a matter of careful consideration in the building trade as in all other forms of industry, and again the Empire Tea Bureau offers its help to all who require it.



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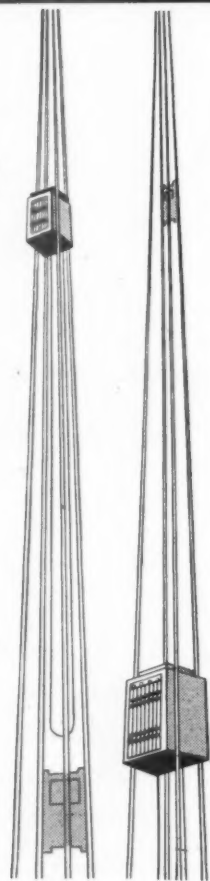
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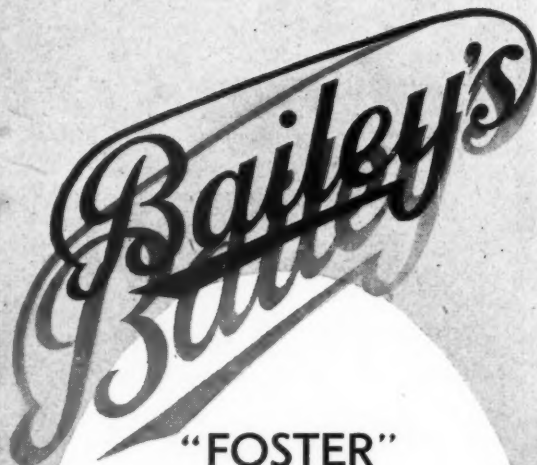
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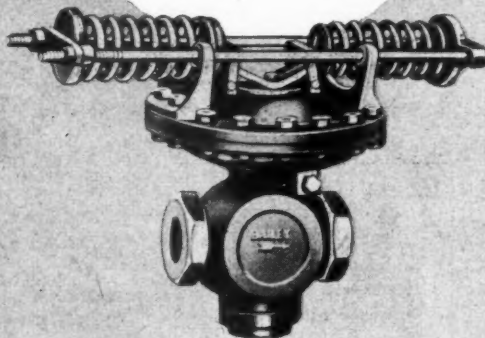
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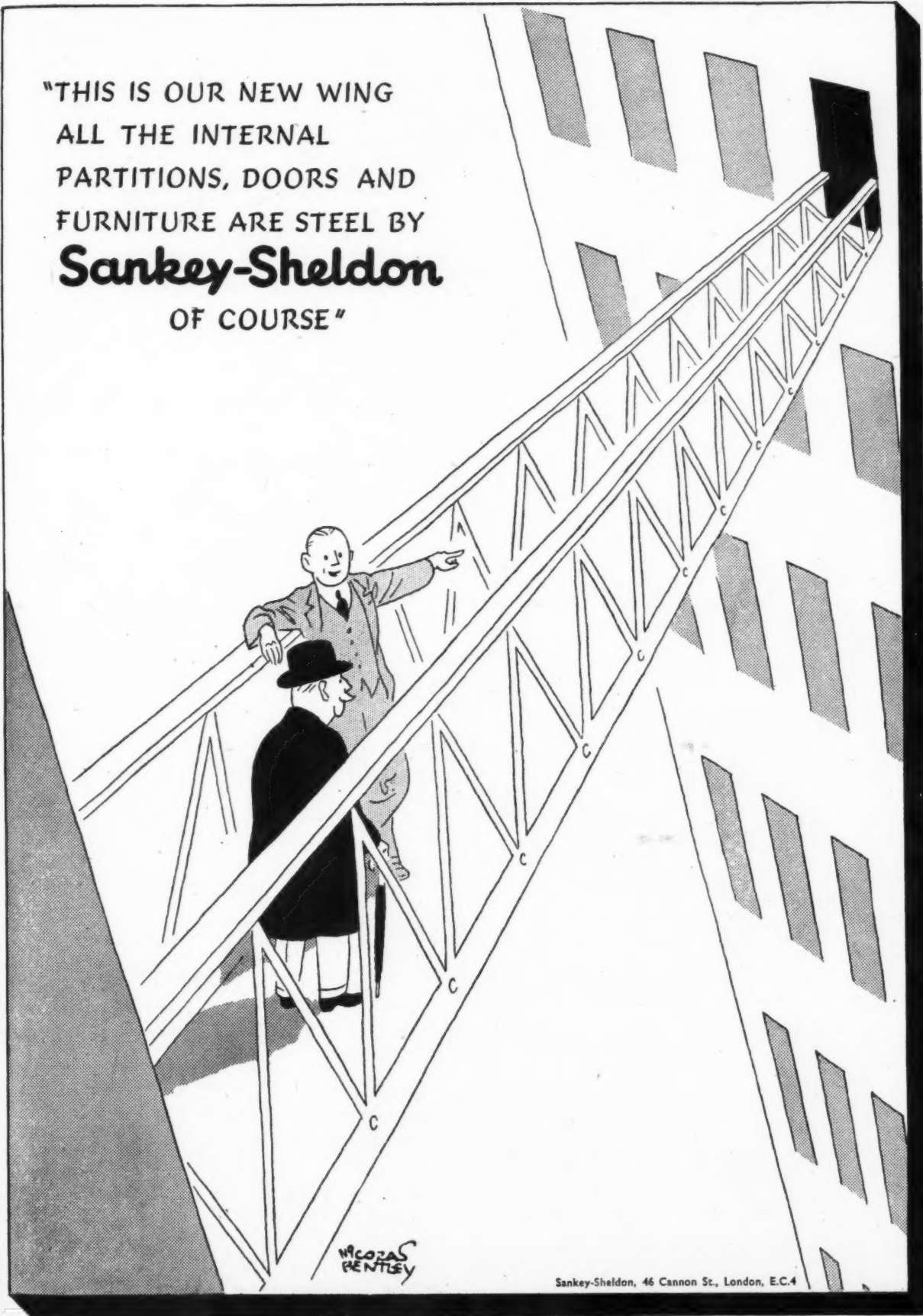
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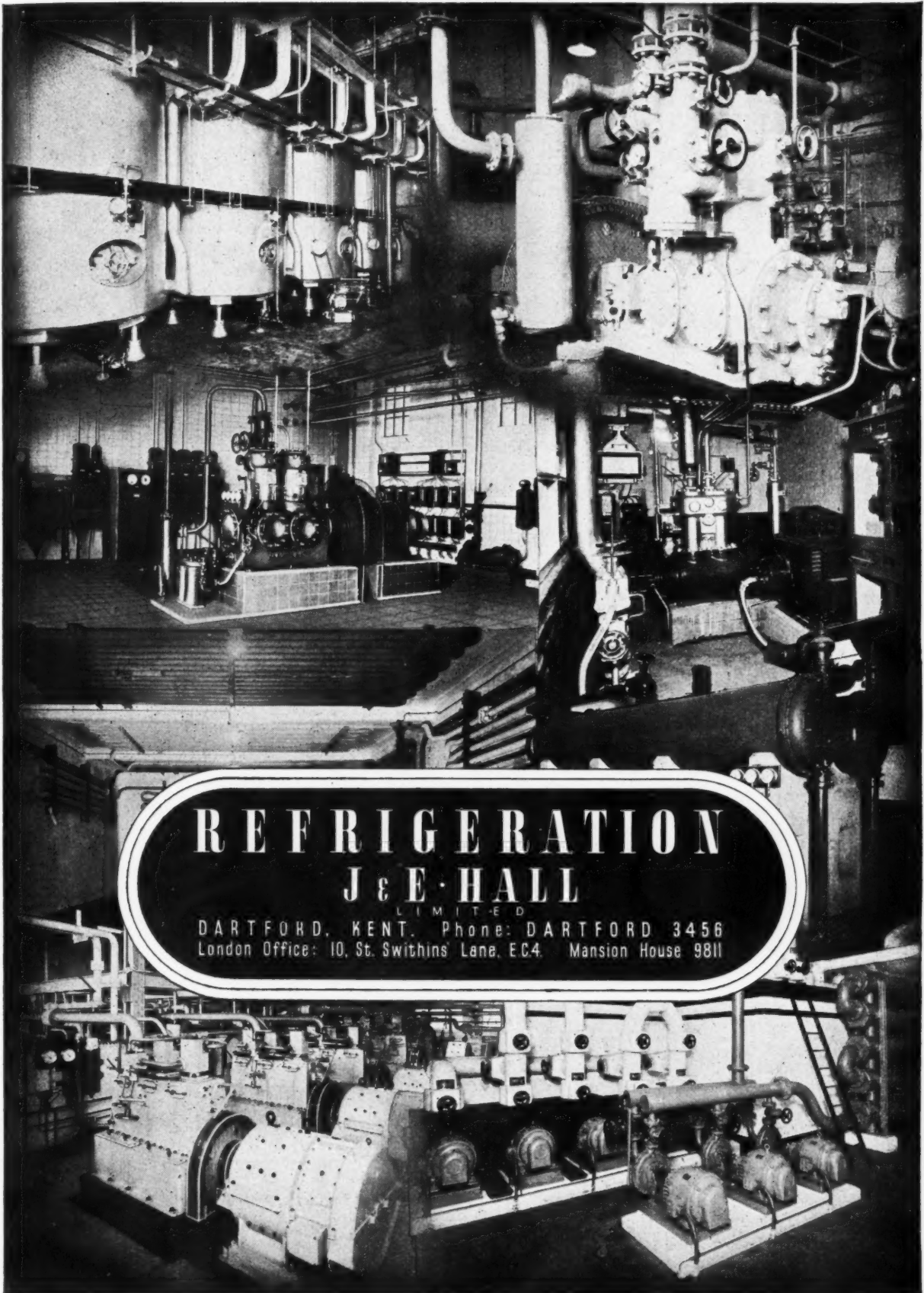
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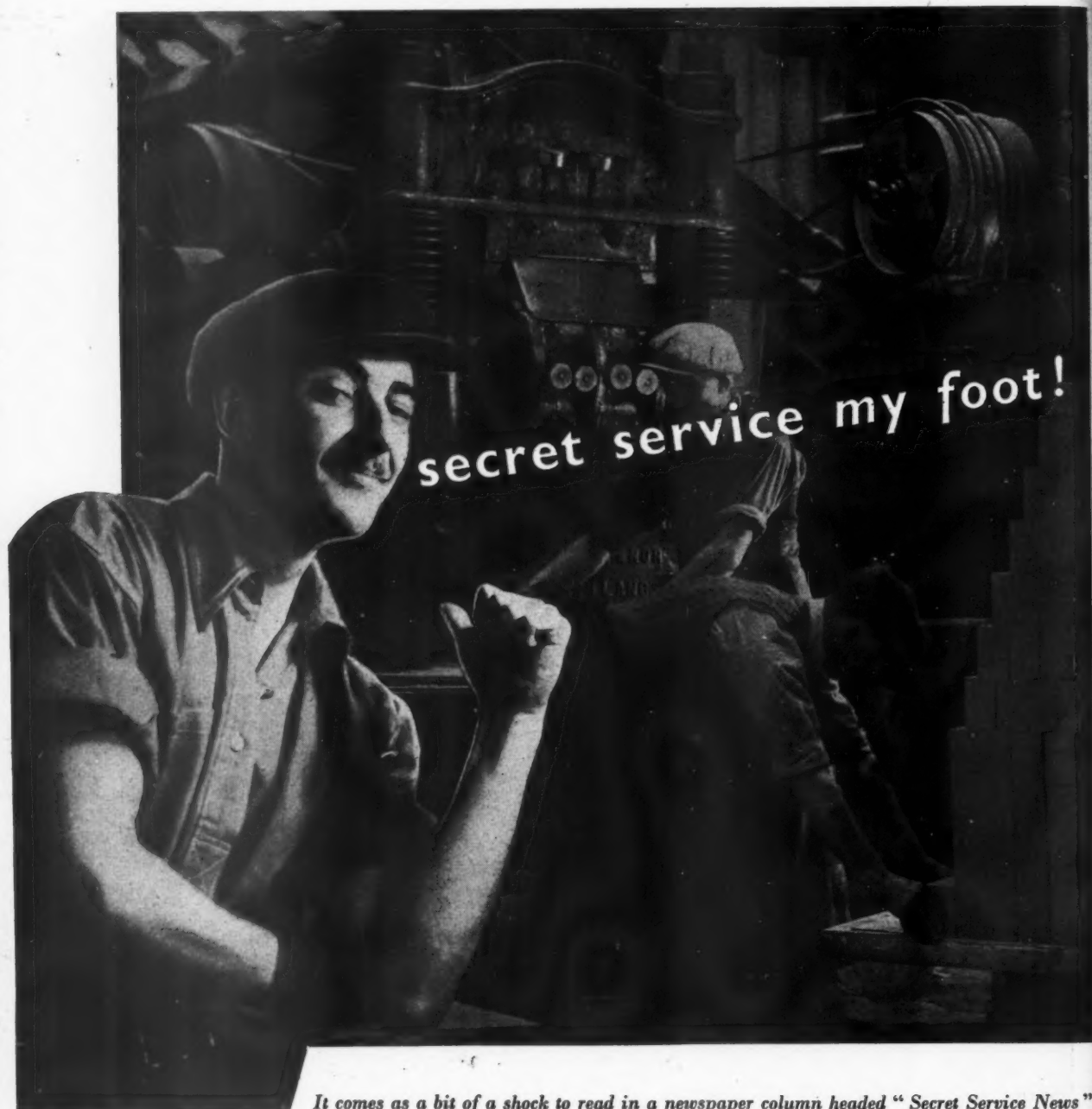
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which have been adopted go far beyond the terms of national legislation. Industrial hygiene cannot however, remain the concern of the State, management of industry, trade unions and the medical profession, but must also receive the full co-operation of the individual. Work is the means to procure greater enjoyment of leisure, and the working hours of each employee are only part of his life as a citizen of the nation. It is of paramount importance that a health consciousness should form a background of everyone's leisure and home life. Industry has done much, but to achieve the ultimate ideal the greatest responsibility lies with the individual.



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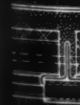
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# MARLITH

## Wood Wool Building Slabs

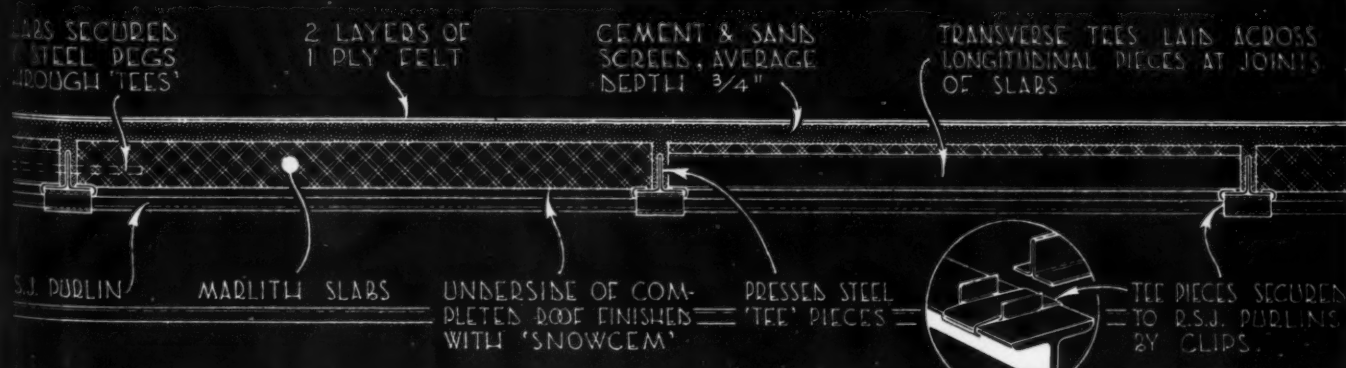
In this light-weight roof, MARLITH SLABS are supported over steel purlins by transverse and longitudinal "tee" pieces of pressed steel, the latter being secured to the purlins by clips. The roof finish consists of a  $\frac{3}{4}$ " cement and sand screed and 2 layers of 1-ply felt. The underside of the Marlith Slabs is finished with "Snowcem."

MARLITH Wood Wool Building Slabs conform to B.S. 1105 and are made in the standard sizes of 6' 0" x 2' 0" x 1", 1 $\frac{1}{2}$ ", 2" and 3". The slabs give an excellent key for plaster or cement rendering. These light weight slabs provide a high degree of thermal and acoustic insulation when used for lining walls or roofs. Slabs of 2" or more thickness can be used as self-supporting non-loadbearing partitions.

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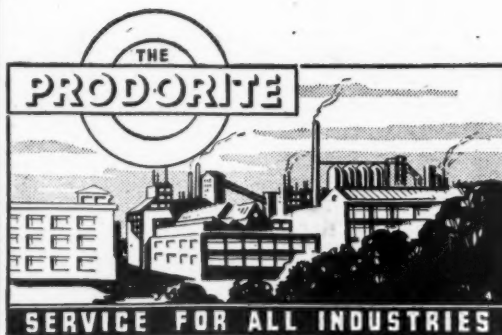
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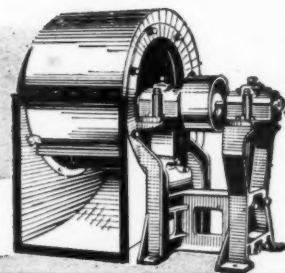
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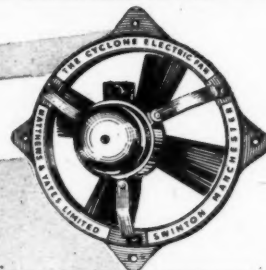
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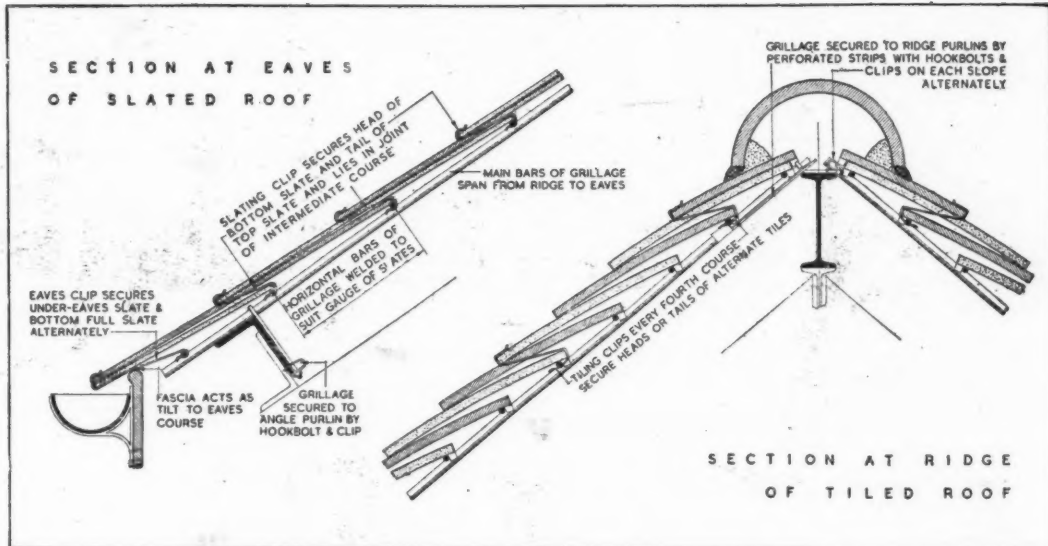
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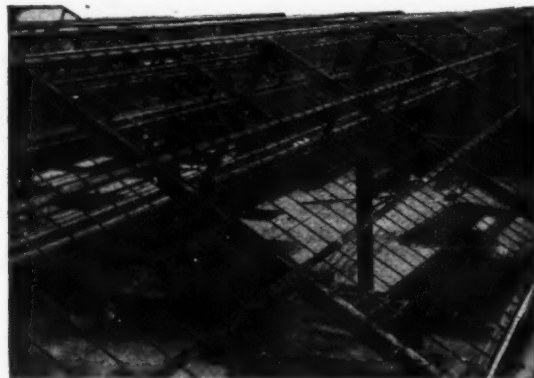


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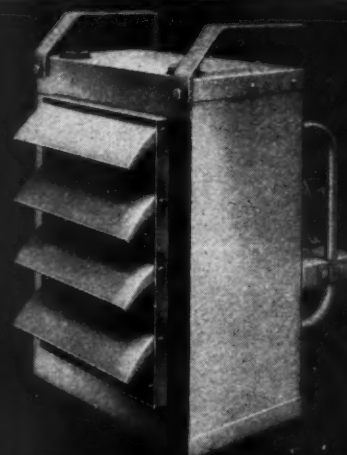
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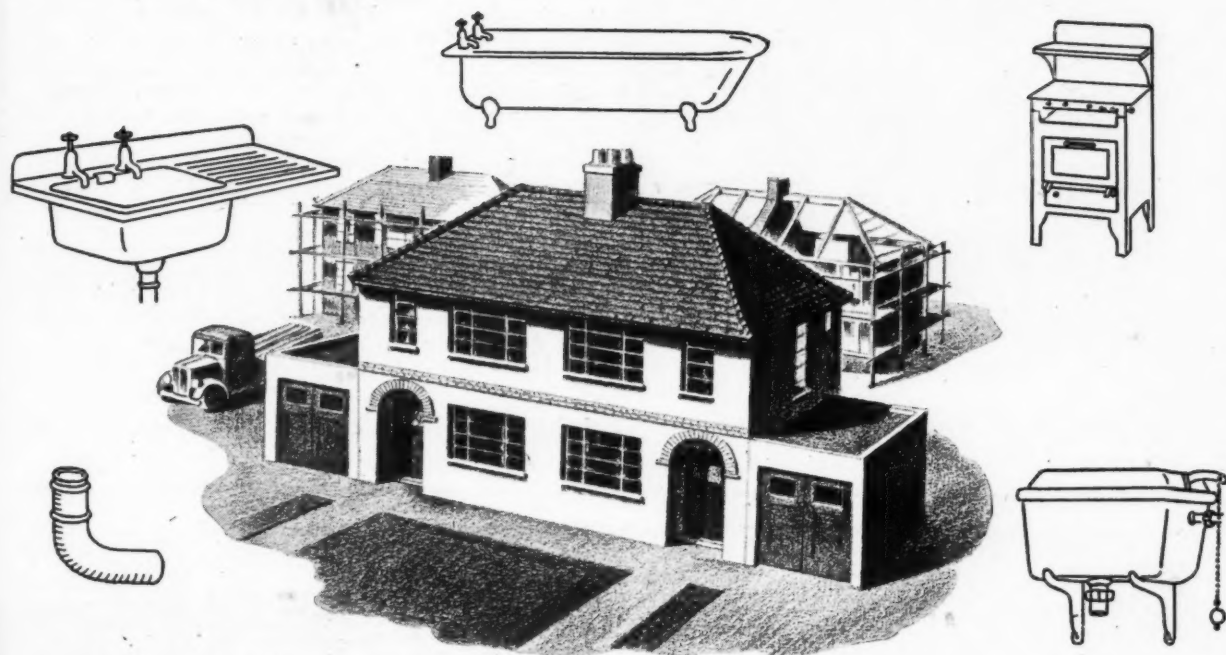
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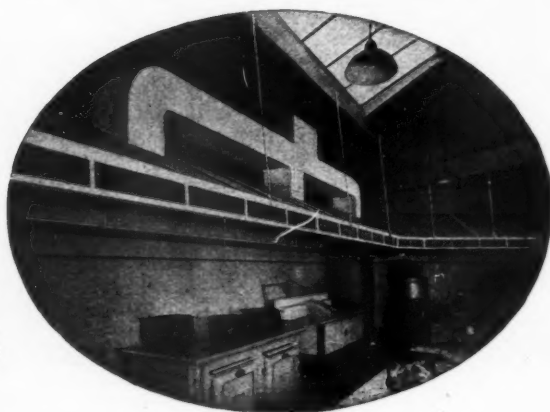
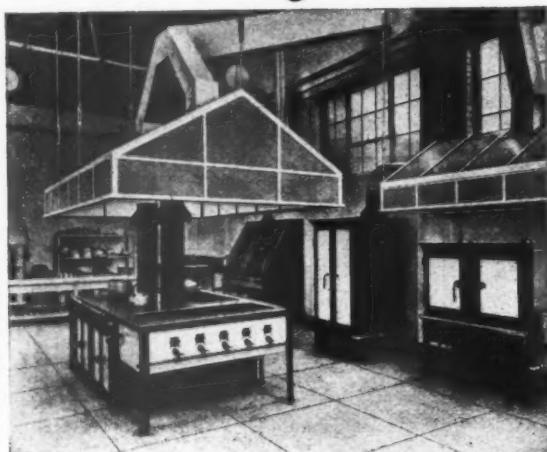
## FACTS ABOUT THE BUILDING USES OF CAST IRON

The British Cast Iron Research Association has a Building Uses Department which is available for dealing with enquiries from architects and builders about cast iron.

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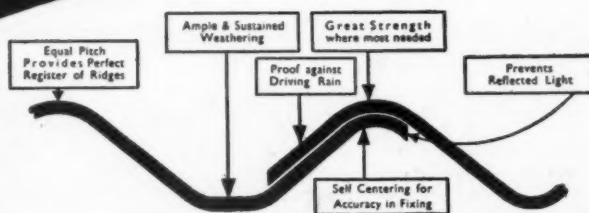
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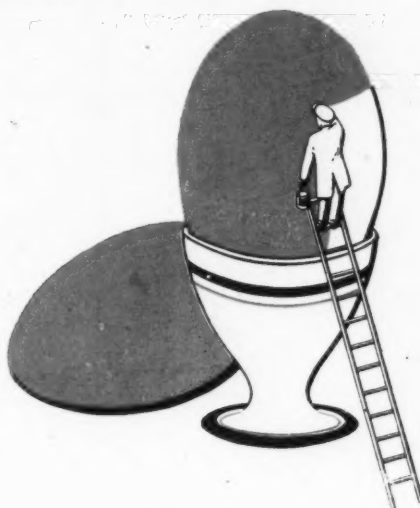
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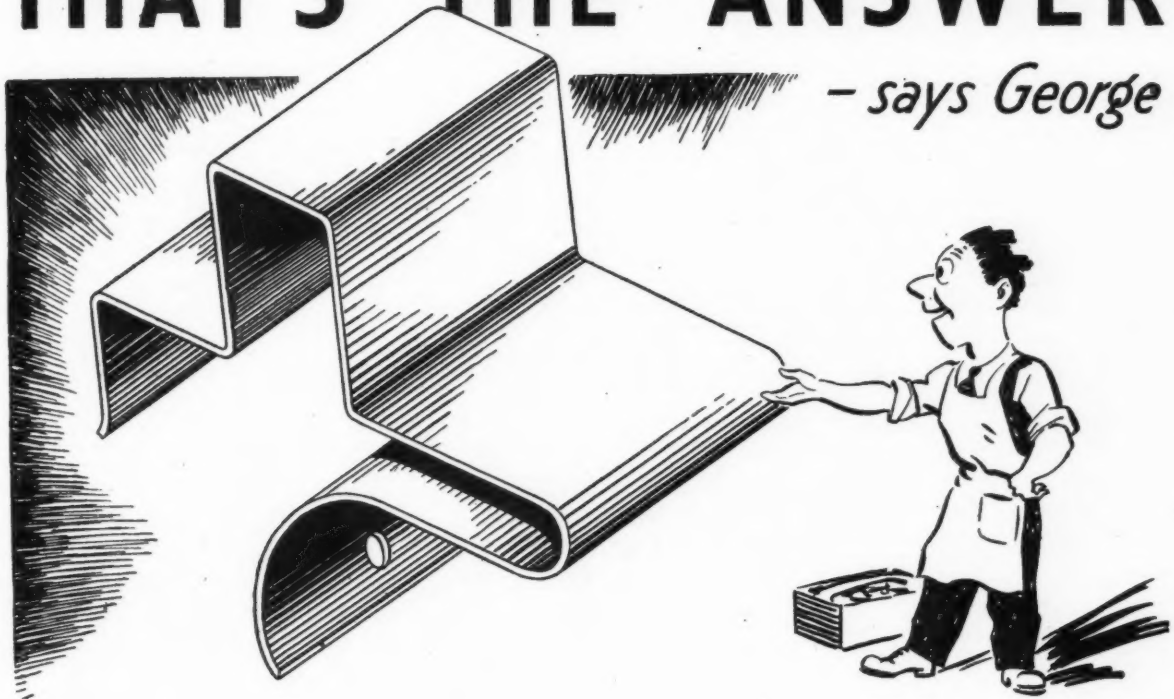
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*- says George*



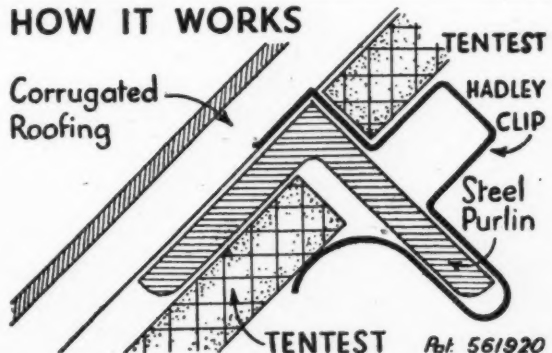
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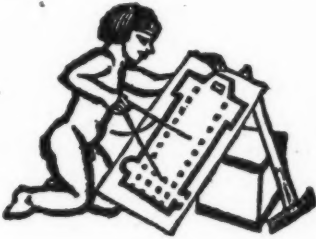
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## DIARY FOR NOVEMBER DECEMBER AND JANUARY

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials as given in the glossary on the front cover.

**BIRMINGHAM.** *Can the IES Code be Profitably Applied to Industry?* Debate at the Imperial Hotel, Temple Street, Birmingham. (Sponsor, IES Birmingham Centre, Midland Area.) Tea buffet 5.30 p.m. Debate 6 p.m. DEC. 6

**LIVERPOOL.** Dr. A. C. Dunningham, J. Seddon Brundit. *High Pressure Hot Water.* At The Municipal Annexe, Sir Thomas Street. 6.30 p.m. (Sponsors, IHVE Liverpool and District Branch and Institute of Fuel.) NOV. 27

**LONDON.** *New Homes for Old.* Exhibition of House Conversion at the Tea Centre, 22, Lower Regent Street, S.W.1. 10.30 a.m.-5.30 p.m. Saturdays, 10.30 a.m.-4.30 p.m. Admission 1s. (Sponsor, HC.) Until Nov. 28

*British Export Exhibition.* At the London Exhibition Centre, New Coventry Street, W.1. (Sponsor, Leon Goodman Displays, Ltd., managers of the Exhibition Centre.) Until Nov. 23

*AA Exhibition of Members' Sketches.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) Until Nov. 23

*Neighbourhood Planning.* Exhibition at the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Until DEC. 13

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

*Town Planning Institute Presidential Address.* By H. W. J. Heck. At Livingstone Hall, Broadway, Westminster, S.W.1. 5.30 p.m. (Sponsor, TPI.) Nov. 21

Professor H. J. Collins, Chadwick Professor of Engineering, University College, London; President of the Institution of Structural Engineers. *Some Aspects of Structural Engineering* (Bosson Gift Lecture). At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. Chairman: Alfred C. Bosson, M.P. (Sponsor, Chadwick Trustees.) 2.30 p.m. Nov. 26

Miss N. S. Heald. *The Small House: Do Snobbery and Over-refinement mar its Design?* At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. Buffet lunch, 12.45 p.m. Talk 1.15 p.m. (Sponsor, HC.) Nov. 26

P. L. Leigh-Breese, Secretary of the Guinness Trust. *Housing: The Tenants'*

*Angle.* At the A.A., 34-36, Bedford Square, W.C.1. 6 p.m. (Sponsor, AA.) Nov. 27

*House-Building Industries' Standing Committee Conference.* At the Seymour Hall, Marylebone. Nov. 28

D. B. Williamson. *New Beginnings and New Towns.* At 28, King Street, Covent Garden, W.C.2. Buffet lunch, 12.45 p.m. Talk and discussion, 1.15 p.m. (Sponsor, TPCA.) Nov. 28

Lady Allen of Hurtwood. *Real Playgrounds for Children.* At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. Buffet lunch, 12.45 p.m. Talk 1.15 p.m. (Sponsor, HC.) DEC. 3

*British Road Federation 1946 Exhibition.* At the Tea Centre, 22, Regent Street, S.W.1. To be opened by the Minister of Transport, the Rt. Hon. Alfred Barnes, M.P. (Sponsor, BRF.) DEC. 4

H. G. Maule. *Health and Welfare in Factories.* At the RIBA, 66, Portland Place, W.1. Light refreshments 5 p.m. Lecture 6 p.m. (Sponsor, RIBA, Architectural Science Board.) DEC. 4

Mrs. C. G. Tomrley, of the Council of Industrial Design. *Interior Decorating for Small Homes.* At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. Buffet lunch 12.45 p.m. Talk 1.15 p.m. (Sponsor, HC.) DEC. 10

John Gloag. *Planning Research for Industrial Design.* At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. Chairman, Sir Charles Tennyson, Chairman of the Central Institute of Art and Design. 5 p.m. (Sponsor, RSA.) DEC. 11

Professor J. D. Bernal. *Is Town Planning a Science?* At the Town and Country Planning Association, 28, King Street, Covent Garden, W.C.2. Buffet lunch 12.45 p.m. Talk and discussion, 1.15 p.m. DEC. 12

**MANCHESTER.** *Annual Dinner, Institution of Heating and Ventilating Engineers.* Manchester and District Branch. At the Grand Hotel, Aytoun Street. DEC. 13

**NORFOLK.** *What is Modern Painting?* Exhibition at Norfolk Education Committee Youth Centres. (Sponsor, Arts Council.) Until DEC. 4

**PARIS.** *British Architecture 1939-1946.* Exhibition arranged by the British Council on behalf of the Ministry of Education in connection with the First General Conference of UNESCO. The exhibition consists of eleven wall panels, carrying photographs, architects' drawings and text in French and English. The panels were executed by the Design Research Unit in conjunction with Peter Ray. Until DEC. 10

## NEWS

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

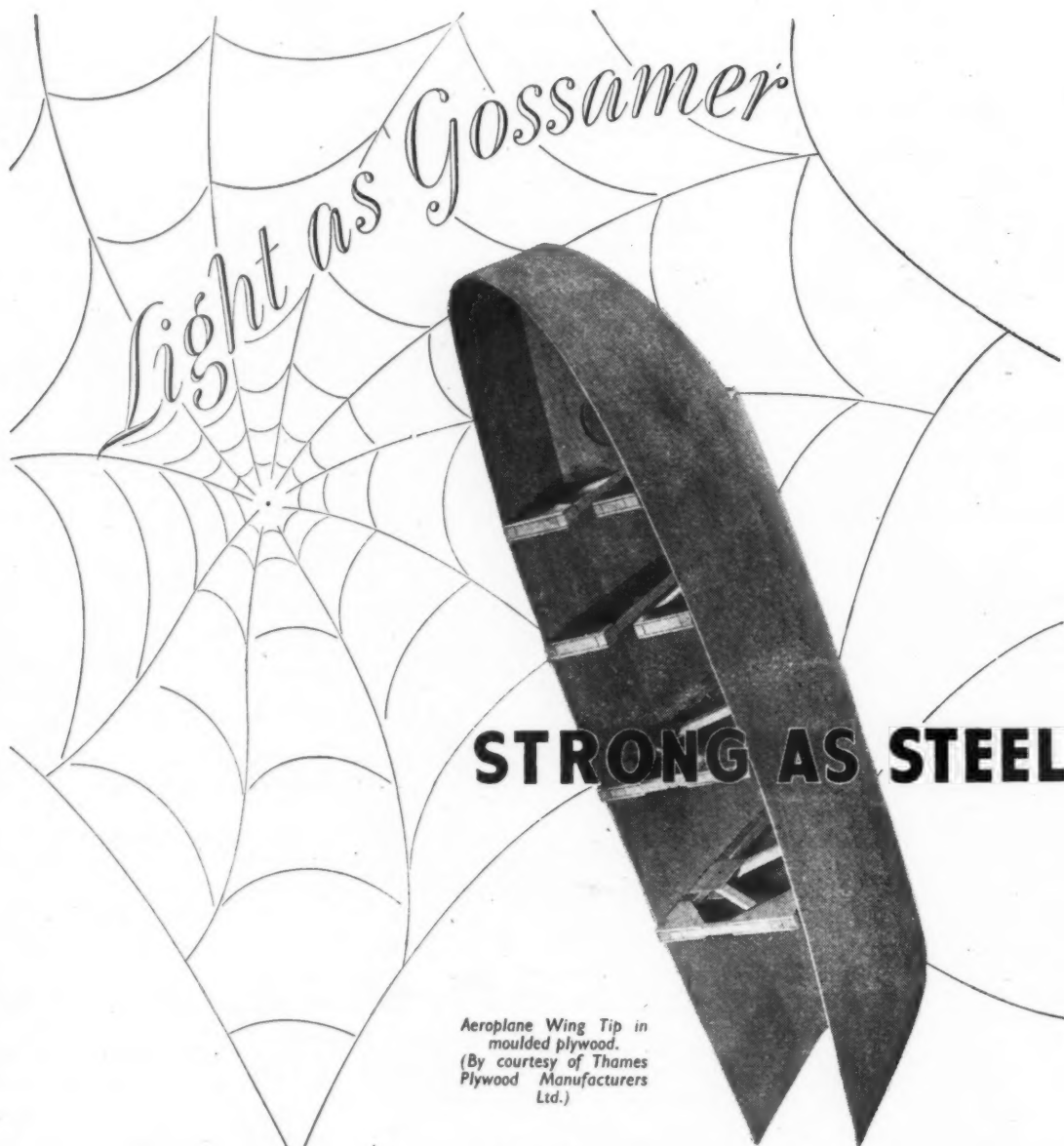
★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

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

### ★ Local authorities in the London Civil Defence Region are asked to help the Ministry of Health to ELIMINATE BLACK MARKET BUILDING.

In a circular to local authorities and housing authorities in the London Civil Defence Region, the Ministry of Health states: The Government is anxious that all practicable steps should be taken to eliminate black market building work. The Minister of Works is expanding his organizations set up to investigate alleged contraventions of Defence Regulation 56A, and the Minister is confident that local authorities will be anxious to co-operate in the action now contemplated. Doubtless, local authorities appreciate that it is a matter of prime importance that information about possible breaches of Defence Regulation 56A should reach the investigating officers of the Ministry of Works with the minimum of delay. Such information should therefore be furnished direct to: The Contraventions Officer, Ministry of Works (Room 16), 51, Gracechurch Street, E.C.3. Telephone: Mansion House 9855, Ext. 204 or 142. To facilitate prompt and successful action information may be supplied under the following headings:—(a) The address at which the work is being executed; (b) The name of the owner of the property; (c) The name and address of the contractor; (d) The type of work being carried out; (e) The names and addresses of all or, at least, some of the workmen employed.



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(By courtesy of Thames  
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Strength is a misleading word. In relation to its size the thread of a cobweb is the strongest material known to science. Steel is strong compared with its size; timber in ratio to its weight. The new materials evolved from natural timber and developed by man, bridge this gap between size and weight.

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## From AN ARCHITECT'S Commonplace Book

G. K. C. ON LONDON. (*From The Club of Queer Trades, by G. K. Chesterton.*) The vast blank space of North London was flying by; the very pace gave us a sense of its immensity and its meanness. It was, as it were, a base infinitude, a squalid eternity, and we felt the real horror that is so totally missed and misrepresented by the sensational novelists who depict it as being a matter of narrow streets, filthy houses, criminals and maniacs, and dens of vice. In a narrow street, in a den of vice, you do not expect civilisation, you do not expect order. But the horror of this was the fact that there was civilisation, that there was order, but that civilisation only showed its morbidity, and order only its monotony. No one would say, in going through a criminal slum, "I see no statues. I notice no cathedrals." But here there were public buildings; only they were mostly lunatic asylums. Here there were statues; only they were mostly statues of railway engineers and philanthropists—two dingy classes of men united by their common contempt for the people. Here there were churches; only they were the churches of dim and erratic sects, Agapemonites or Irvingites. Here above all, there were broad roads and vast crossings and tramway lines and hospitals and all the real marks of civilisation. But though one never knew, in one sense, what one would see next, there was one thing we knew we should not see—anything really great, central, of the first class, anything that humanity had adored. And with revulsion indescribable our emotions returned, I think, to those really close and crooked entries, to those really mean streets, to those genuine slums which lie round the Thames and the City, in which nevertheless a real possibility remains that at any chance corner the great cross of the great cathedral of Wren may strike down the street like a thunderbolt.

*The Birmingham Local Joint Committee for the Building Industry has decided that the fixed week for the holiday to be taken in 1947 under the HOLIDAYS WITH PAY Scheme shall be the normal working week commencing Monday, June 30, and terminating Saturday, July 5, 1947, both dates inclusive.*

The area covered by the Committee includes the whole of the area of the City of Birmingham and a five miles' radius from Stephenson Place (excluding any portion of the Borough of West Bromwich), the County Borough of Smethwick, the Municipal Borough of Oldbury, portions of the Municipal Borough of Halesowen, portions of the Municipal Borough of Rowley Regis and the whole of the Urban District of Solihull.

★

*The revision of Clause (E) of the RIBA Regulations governing the Promotion and Conduct of ARCHITECTURAL COMPETITIONS, has been approved by the Council.*

Clause (E) of the Regulations governing the Promotion and Conduct of Architectural Competitions at present reads as follows:—

"If no instructions are given to the author of the design selected by the Assessor to proceed within twelve months from the date of the award, then he shall receive payment for his services in connection with the preparation of the Competition drawings of a sum equal to 1½ per cent. on the amount of the estimated cost stated in the conditions up to £50,000, but if the estimated cost of the work exceeds £50,000 he shall be paid a sum equal to 1½ per cent. upon the first £50,000 plus ½ per cent. upon any sum in excess of that amount. The first premium shall be deducted from the sum so paid. If the work is subsequently proceeded with, this sum shall form part of his ultimate commission. If within twelve months of the award, the Promoters shall decide to proceed with part of the work only, the author of the selected design shall be paid,



*Mr. Charles Wheeler, R.A., putting the finishing touches to the statue of Lord Montagu Norman, Governor of the Bank of England for twenty-four years. The statue has now been placed in the courtyard of the Bank.*

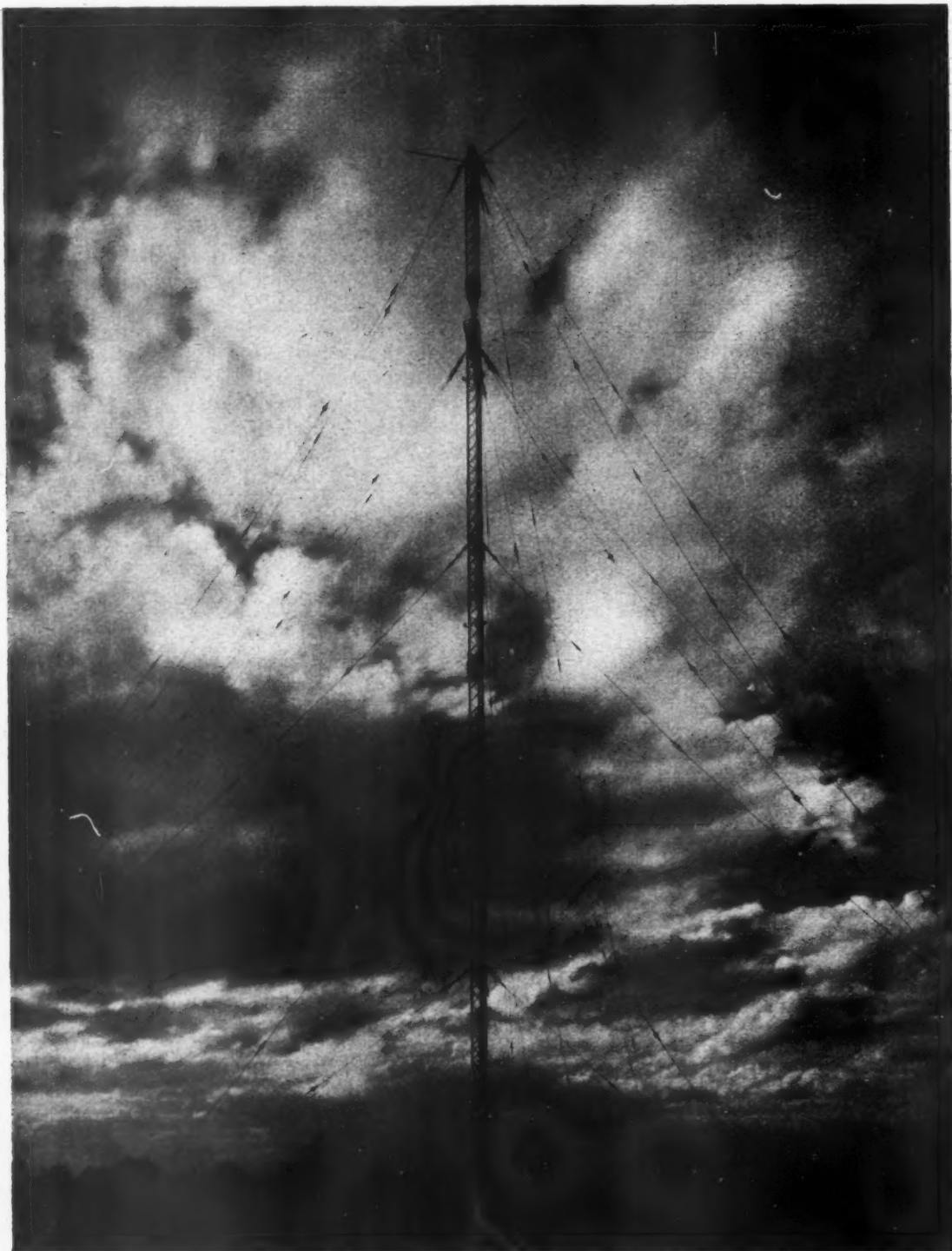
including the premium and in addition to the scale fees on the work which is being carried out, a sum equal to 1½ per cent. on the difference between the cost of the work carried out and his estimate of cost up to £50,000, and if the total estimate exceeds £50,000, then a further ½ per cent. on any sum in excess of this amount, which sum shall also merge into the commission when the remainder of the work is subsequently executed." In view of the increased cost of building the Council on the recommendation of the Competitions Committee has amended this Clause by substituting the figure £100,000 for £50,000.

*Home of all the mechanical, electrical and telecommunication devices in use on the GWR and birthplace of the automatic train control, the READING SIGNAL AND TELEGRAPH WORKS are to be rebuilt and re-equipped at a cost of £300,000.*

The site is the same as that occupied by the existing works, first established at Reading in 1855. The Signal Department is responsible for the maintenance of some £14,000,000 of equipment installed on railway lines and in stations and offices embraced in the Paddington-Penzance-Birkenhead triangle.

*One thousand pounds a year for three years is to be spent on installing hidden lighting in the crypt, cloisters, and Howley Library of CANTERBURY CATHEDRAL.*

At the annual council meeting of the Friends of Canterbury Cathedral the Dean, Dr. Hewlett Johnson, said that they had decided on a system which gave a soft and not too garish light and was liked by every one who had seen it. Authorization was also given to the spending of £2,000 a year for the next three years on rebuilding the organ.



## *New Landmark*

The new BBC radiator mast at Brookman's Park, standing 500 ft. high (well over three times the 145 feet of the Nelson's column) forms a new and dramatic feature in the local landscape. It is a parallel sided lattice steel structure of triangular section, each face being about 6 feet wide, and is supported by 21 guys at 100 feet intervals. All steel-work was galvanized by the hot dip process after fabrication. The mast stands on a base of three hollow cylin-

drical porcelains, each one foot long, insulating it from the earth, while the upper 100 feet section of the mast is insulated from the lower section by three oil-filled cylindrical porcelain insulators, each three feet long and 9 inches in diameter with fabric cores prestressed in tension so that the porcelains themselves are relieved of all tensile stress. The maximum working design load at the base of the mast is 200 tons, the dead weight of the mast itself being 50 tons.

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Mr. Clarence Bacon, A.R.I.B.A. Chief Architectural Assistant to the City Engineer, Lincoln, has been **APPOINTED HOUSING ARCHITECT** to the Taunton Corporation, Somerset.

*Major E. W. Taylerson: The position with regard to deliveries of HYDRATED LIME is becoming extremely difficult owing to an insufficient supply of paper sacks for packing.*

Major Taylerson, who was speaking at a meeting of the Southern Lime Association, of which he is chairman, said: The chalk lime industry at present requires paper sacks at the rate of over 3,000,000 per annum and with the growing demand for lime for building this will undoubtedly increase during 1947. I would urge the various Ministries to get together on this problem. The Ministry of Works requires lime; the Ministry of Supply and the Board of Trade state that they cannot allocate more paper for bags for packing it, and, in the meantime, the lime supplier is between the devil and the deep sea.

★

*The Ministry of Health, in a circular, has informed local authorities in the North Eastern, North Western and North Midland Regions that the output of bricks in those areas is now showing a considerable increase, and it is anticipated that PRODUCTION WILL EXCEED THE DEMAND DURING THE WINTER MONTHS.*

Many brickmakers are already accumulating stocks and this tends to restrict production, especially in the smaller yards with limited storage capacity. Housing authorities and their contractors are, therefore, asked to order and take delivery of bricks as early as possible in advance of their housing requirements. By doing so they will ensure that bricks are on site in good time, and will also assist in relieving road and rail transport of a heavier load at a later date. For the same reason regular ordering and acceptance of deliveries should be maintained during the winter months. Urging local authorities to make the fullest use of local bricks, the Ministry adds that the expanding demand for bricks will only be met next year if all the available manufacturing sources are used. This circular has been sent to local authorities in the following counties:—East and West Ridings of Yorkshire, Cheshire, Lancashire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Rutland, and Soke of Peterborough. All these authorities have been supplied by the Ministry with a list of brickyards in those counties which have stocks immediately available for disposal. An official of the Ministry of Health stated that the same position was likely to arise with other materials, particularly roofing and tiles and stoneware pipes, and that the Ministry will probably ask local authorities to take early delivery of these items also, in readiness for the heavy demand likely to arise when next year's building season begins.

## WHY DEFECTIVE PLUMBING?

**F**ROM the crude beginnings until quite recent times the expert authority of the plumber remained unchallenged through increasing complications in piped services to buildings; at the appropriate stage in construction he arrived upon the scene to execute his original rhapsody in lead and iron; sometimes the results of his labours worked well, more often they did not. Frost bursts, fuel wastage, faltering taps, strange noises and blocked drains were accepted almost as a matter of course. Liaison between him and the architect hardly existed; plumbing remained an expert mystery, something tacked on to the house rather than an integral part of it. The aggregate results in inefficiency, waste, and maintenance expenditure, cannot even be estimated.

Times have changed, and the importance of plumbing design in relation to the planning of the house is now generally realised. But there is evidence of plenty of survivals from a bad past, of extravagance and inefficiency resulting mainly from failure to consider plumbing and water-heating problems at a sufficiently early stage in the design, but also from ignorance of the basic principles of good plumbing design. The Building Research Station has recently issued a Note\* under the significant title *Some Common Defects in Plumbing Designs for Post-war Repetition Dwellings*, comprising a formidable list of deficiencies observed in designs submitted to BRS for advice and comment. Most of the old complaints reappear again; inadequate protection against frost, excessively long pipe runs, pipes too small for their purpose or uneconomically large, impossibilities of access, difficulties in domestic cleaning. Evidently plumbing design is still receiving too little attention, even if it is no longer the haphazard affair of earlier days.

Of greater significance, perhaps, are the criticisms in this Note of trends in prefabricated plumbing design. To many who were well aware of the inadequacies of site plumbing, the obvious solution seemed to be to remove the whole business to the factory, and there produce a completely prefabricated unit which only needed connecting up on the site. Many carefully thought-out designs for such units have appeared, and some have gone into production. However, the BRS does not seem certain that developments along these lines constitute a sound approach to the problem. Recent experiments there have shown that site man-hours for a conventional plumbing system can be reduced to an extremely low figure by off-site fabrication of the pipework in short lengths, and the use of suitable screwed site connections. Combined with careful location of appliances, and consideration of the site fixer's problems during design, it is suggested that this simpler technique may provide a more flexible, and more economical, solution than the elaborate prefabricated unit.

It is easy to complain that in this day and age plumbing ought not to be defective, and that the plumbers themselves should long ago have rationalised the old techniques. That they

\* See Inf. Centre No. 2828 on page 376 of this issue

have not yet succeeded in doing so we take to be, in part, the fault of the architect and the builder. Both are concerned with the outward appearance of things, the architect as artist and designer, the builder as a producer with something to sell.

The inner, unseen, workings have been the province of the expert, and their arrangement left to him as such. Thus, outside some experimental designs, plumbing technique has remained static for lack of demand upon the plumber to produce something better and cheaper. Again, the plumber was often faced, as he still too frequently is, with the problem of providing an efficient plumbing system to fit a plan which precluded either efficiency or economy from the start. Plumbing has lagged far behind other building techniques, although its influence upon the comfort and health of the occupants of a house is at least as important as that of any other. Much needs to be done before the leeway is made up; and architects need to understand the basic principles of plumbing design, so that they can cooperate with the plumber, and offer constructive criticism where necessary.



*The Architects' Journal*

13 Queen Anne's Gate, Westminster, S.W.1  
Phone: Whitehall 0611

## N O T E S &

## T O P I C S

### SWEDISH PACKAGE FURNITURE

Several of my friends have managed to struggle back from Stockholm with Triva package chairs and tables as part of their personal luggage. I have made tentative inquiries about importing some, but, of course, exchange restric-

tions fix that, quite apart from the Swedes apparently wanting to be paid in coal.

But as an example of what we may be able to buy not too expensively if exchanges are ever again free, there are three rooms at the Building Centre, nursery, bedroom and living room, filled with Triva furniture by Elias Svedberg and textiles by Mrs. Sampe-Hultberg. And all very nice, too, though I could not help feeling that Swedish children must be preternaturally well mannered, or the nursery won't look good as that for very long.

Open till the end of the month and not to be missed: it is high time we had an English Sears Roebuck with the good taste of Nordiska Kompaniet.

### LEAVE IT ALONE

By overcoming the practical and psychological difficulties with an inspiration amounting to genius, Sir Giles Gilbert Scott has at Waterloo produced London's best bridge. Nothing should now be added to it. In its unself-conscious and serene simplicity it is a finished and complete conception—complete enough to satisfy even the most critical of highbrows. It would be an appalling architectural misfor-

tune if anything were now to be added to it. Least of all does the bridge need any sculptural embellishments.

The proposal to erect Mr. Charles Wheeler's Four Winds above each of the four staircases of the bridge was to have been discussed on November 5, but for reasons unknown the proposal with withdrawn without comment. Let us hope that before the matter comes up for discussion again the advisers to the LCC on these matters will have seen the light, and will have persuaded the Councillors that the lily needs no gilding.

### WAR MEMORIALS

Already people are discussing what form the memorials to this war should take. Appeals from old schools, old colleges, from the local village or from the regiment tumble in by every post. In this hurly-burly the purpose of the memorial is often overlooked. It is, to put it baldly, to make men remember. Not an easy task, and most attempts after the last war failed to accomplish it.

Those that failed were not just the unambitious ones nor the silly ones, nor even the ugly ones. The failures were those which did not spring from the genuine feeling of the community, and therefore never won its affection and understanding. This has been particularly, perhaps, the fate of the "practical" memorial—the clinic, the swimming bath, the batch of almshouses—which, despite the memorial label in Trajanic lettering over the entrance and the melancholy rows of gilded names in the porch, never achieved the spiritual status of the true memorials, and have never, since the day of their dedication, been so regarded.

In *War Memorials* [Country Life, 30s.] Mr. Arnold Whittick draws attention to this danger which again threatens us. Promoters of war memorials, he says, are inclined to ride their own hobbyhorses—churchmen plump for memorial chapels or parish

halls, sculptors for statues, schoolmasters for blocks of classrooms, footballers for playing fields. Admirable objects, of course, but isn't it (as Hugh Casson said in *Bombed Churches for War Memorials*) rather like giving a child goloshes for Christmas?

There is an unpleasant whiff of Cashing In about such projects. Shall it be then a garden or a cloister, an obelisk or an archway? In his very comprehensive and luxuriously illustrated survey, Mr. Whittick discusses them all. He pleads for sincerity and lucidity in expression and for brevity in inscription. How much more moving, as he so rightly says, is "O Rare Ben Jonson" or "Jane Lister, dear childe" than those windy clichés so often found in memorial inscriptions.

[It was nice, incidentally, to read again Mr. MacColl's excellent revised version for the Unknown Warrior's Tomb in Westminster Abbey.]

Mr. Whittick deals at length with memorials for individuals, villages, schools, institutions and nations, and concludes with his own proposals for a Memorial International University on the Isle of Wight. Imaginative and spectacular as this scheme is, as shown in Mr. Schreiner's drawing, it has for me none of the true qualities of a

memorial, and for that reason alone it fails.

Mr. Whittick's illustrations span the centuries from the Iron Gate at Mycenae to the Henry Moore Virgin at Northampton, and an appendix contains practical notes on suitable materials and lettering. This is an admirable, discreet and timely study of a subject which bristles with the potential horrors of humbug and sentimentality. All those who are faced with the problem of commemorating their war dead should read it and reflect upon it before making their decisions.

#### BEST QUALITY ROWNTREE

The picture reproduced below is from Mr. Kenneth Rowntree's current show at the Leicester Galleries, and is a characteristically delightful example of this artist's close feeling for architecture and lettering in the landscape. This is Mr. Rowntree's first one-man show, and all London architects—and those visiting London—are strongly recommended to crash those infernal turnstiles—surely the Leicester Galleries can afford to dispense with them by now?—and see what a success he has made of it. Full flavour, plenty of variety, and not a single soft centre.

#### ASTRAGAL



Two of the paintings at the Leicester Galleries by Kenneth Rowntree. Left, *Metorological Tower (1945)*. Above, *Saddler's Shop at Clare (1946)* referred to by Astragal this week. The exhibition closes on November 26.



## LETTERS

L. G. Hazell

(Secretary, Flush Door Manufacturers Association)

Eric R. Lloyd, Ex.-RE

Leslie Myers, Ex.-RAF

Geoffrey L. Gomm

### Architects May Use Flush Doors

SIR,—No doubt most of your readers have been aware of the fact that the manufacture of flush doors was apparently prohibited from October 1 last as the various timber control area officers would not sanction licences for timber and plywood for flush door manufacture.

The above state of affairs was due to misinterpretation of a circular letter sent by Board of Trade headquarters to timber control area officers. The Association was not previously informed of this instruction. Quite naturally, it came to our notice within a day or two of its despatch and was immediately taken up very vigorously with the Board of Trade. I am pleased to state that as a result of these negotiations the Board of Trade has now agreed to clarify the position by further communication with its area officers.

The Association has now been given an emphatic assurance by the Board of Trade that the architect, builder and local authority who wish to use flush doors in any of their housing programmes are perfectly entitled to do so provided the plywood they consume does not exceed the existing limit of 450 sq. ft. per house.

Nottingham

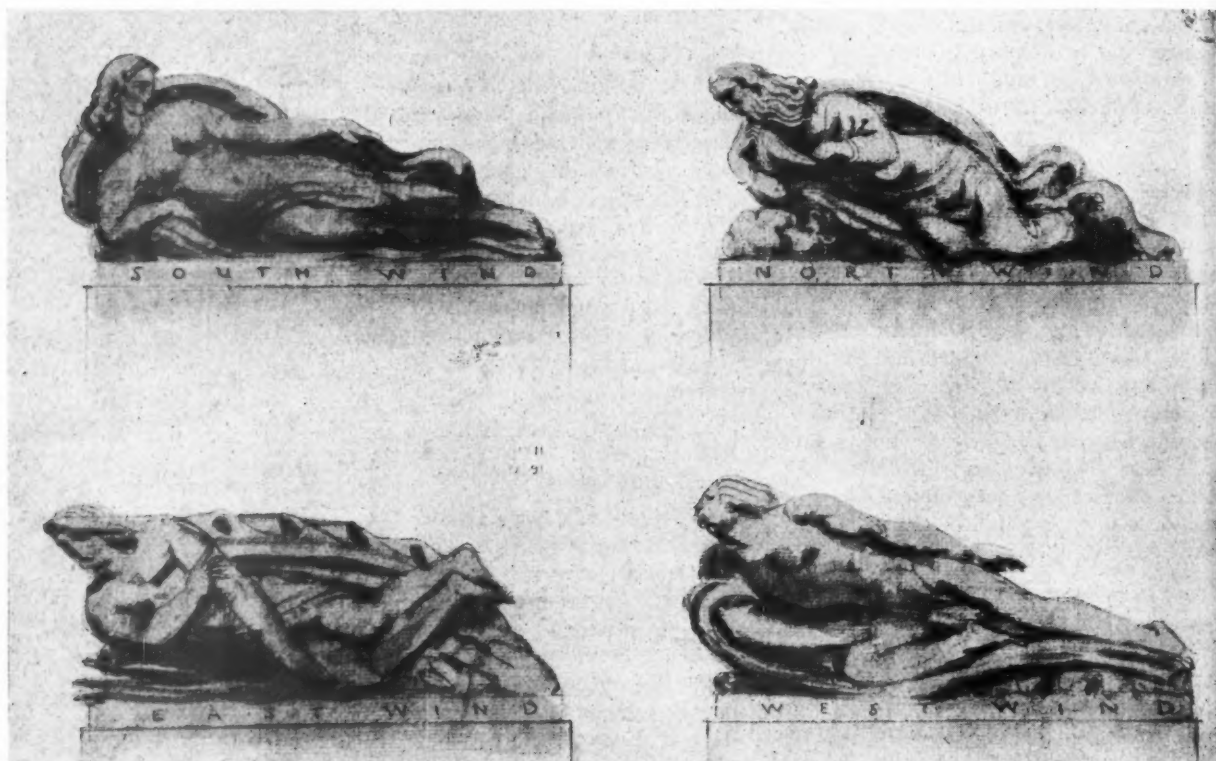
L. G. HAZELL,  
Secretary,

Flush Door Manufacturers Association

### Registration

SIR,—May we, the undersigned, call your attention to what we consider an injustice to the ex-service architectural assistant, which is brought about by the present regulations governing registration?

## PROPOSED SCULPTURE FOR WATERLOO BRIDGE



Sketches and model of the four groups of figures in Portland stone by Charles Wheeler, R.A., proposed for the new Waterloo Bridge. Representing the Four Winds, they would be about 11 feet long and would stand on the masonry blocks at each of the four stairways of the bridge. The proposal has yet to be recommended officially by the LCC. See Astragal's comment on page 364.

Those men who were without doubt necessary for the well-being of the Home Front, have had some six to seven years to study and qualify, and, indeed, many have.

Very few of us in HM Forces have had either the time or the opportunity for any serious studying, and are consequently anything up to seven years behind with our studies.

Registration, as it stands, is a "let-out" for some, but to be eligible one must have at least seven years' experience with a practising architect prior to August, 1938.

Assume, then, that at the age of eighteen a youth starts off his career in an office, to be eligible for registration he must be at least twenty-five in August, 1938.

Consequently when hostilities commenced, he was at an age when most men taking up architecture as a profession have either already qualified or are well on the way, and in such a position that they have not to rely on registration to help pave their way in their chosen employment.

Our point is this: there must be many hundreds of architectural assistants who joined HM Forces between the ages of twenty and twenty-three, and are now, after demobilisation, nearing, or have reached, the

age of thirty, when the prospect of two or more years of continuous study is not something to which we look forward.

Admittedly, ex-service men are a little out of date as far as building practice goes, but, on the credit side is the fact that any man with average intelligence, architecturally trained, will have been able to accumulate knowledge that has been denied those who have remained in their civilian employment.

The net result is that, instead of being thanked for serving our country, we are being penalised to the extent that we are barred from applying for any decent remunerative appointment, either at home or overseas, as most advertisers demand either a qualified or registered assistant.

May we then suggest that, in the case of ex-service men, the rules governing registration should be reviewed and relaxed to the extent of the necessary seven years' experience being allowed to include service with civilian employers after August, 1938, and, where applicable, military experience to be considered?

The above suggestion is not an endeavour to "get in via the back door," but merely to ask that a little consideration be given to

those whose studies have, through no fault of their own, been seriously handicapped.

Liverpool.

ERIC R. LLOYD, EX RE  
LESLIE MYERS, EX RAF

## Fountains Abbey

SIR,—I wish to add my protest to those others of the profession who are opposed to the suggestion that the ancient ruins of Fountains Abbey should be restored and used again as a Benedictine Monastic establishment.

No matter with what cunning the restoration be conceived, no matter how skilled the craftsmen employed, the result will be unsatisfactory.

If such an establishment is desired, then by all means allow the Noble Monks of Buckfast to construct it, but let it be conceived to suit the conditions of to-day, let the seven centuries of experience gained since the old and beautiful Fountains was built, be weighed and advantageously used, and let a new and finer Abbey arise, an Abbey that will be considered as precious a jewel as are the ruins of Fountains in its delightful setting to-day.

Bristol

GEOFFREY L. GOMM

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# HOUSING STATISTICS

## A MONTHLY COMMENTARY ON THE OFFICIAL RETURNS—9

by

Ian Bowen

By the end of September there were in Great Britain 31,955 Permanent and 57,040 Temporary houses completed. In addition, space for about 129,024 family units was found by repair of unoccupied war-damaged houses, by conversions and adaptations, and by the building of emergency huts. During September there was an increase of 7,018 Permanent and 9,864 Temporary houses completed, and for 6,010 more family units space was otherwise provided.

From June to September, therefore, completions have proceeded at the following rates:—

TABLE I

Monthly Rate of Provision of New Housing in Great Britain, June to September, 1946

	June	July	August	September
Permanent Housing—				
Local Authority schemes .. ..	1,120	1,471	1,805	2,567
Private enterprise .. ..	2,091	2,966	2,759	3,724
War-damaged houses rebuilt .. ..	326	453	468	727
Total permanent housing .. ..	3,537	4,890	5,032	7,018
Temporary housing .. ..	4,502	5,286	6,751	9,864
	8,039	10,176	11,783	16,882

It will be observed that some of the figures for July and August have been revised (as compared with Table I in Commentary No. 8, A.J., October 10), to agree with those given in the October Monthly Digest of Statistics.

The total housing provided in the month showed a very considerable increase in September. 2,000 more permanent houses were finished in September than in August, and 3,000 more temporary.

But, although this result is very encouraging, it should be observed that, at the current rate of production, only 21,000 more permanent houses will be finished by the end of December, 1946 (*i.e.*, 7,000 × 3 more months), making a grand total of 52,000 permanent houses, plus seven or eight thousand war-damaged houses by the end of a period when the Minister of Works was, for one, hoping for 100,000. How much above 7,000 a month can be attained?

The temporary housing programme is less of a short-term problem. Completions here have been advancing from month to month with such momentum that it is safe to predict that they will continue to rise. It would not be surprising if another 40,000 or more were finished by the end of December, 1946. The temporary house programme should thus be well out of the way by the late spring of next year.

### HOUSES UNDER CONSTRUCTION AND BEGUN

At the end of September there were 142,000 houses under construction in England and Wales, and about 24,000 in Scotland, or 156,000 in all. This was 6,400 more than were under construction at the end of August, and, since 16,882 were finished in September, some 23,400 must have been begun in that month. Thus, according to these figures, houses beginning and houses finishing were much nearer to an equality than in any earlier month in 1946.

In addition, 7,206 temporary houses were begun in September. Incidentally, the total number of temporary houses under construction fell during that month by 2,658 (as also did private enterprise permanent houses—by 347).

The figures for houses begun may thus be set out as follows:—

TABLE II

Houses on which Work Began, July-September, 1946. (Figures to nearest 100)

	July	August	September
Permanent Housing—			
Local Authority schemes .. ..	15,000	15,400	18,200
Private enterprise .. ..	4,600	4,000	3,400
Rebuilding of war-damaged .. ..	2,400	1,300	1,800
Total permanent housing .. ..	22,000	20,700	23,400
Temporary housing .. ..	7,600	7,500	7,200
	29,600	28,200	30,600

The rise in houses begun under local authority schemes is much more marked; and the continued decline in houses begun by private enterprise is also very striking. Indeed, on a "Houses Begun" basis, Mr. Bevan's famous *four to one* ratio has now been considerably exceeded; the ratio is more like  $5\frac{1}{2}$  to 1, in favour of the local authorities. It would therefore appear that consistently with the four to one plan, more houses could now be started monthly by private enterprise. This sharp downward trend for this section of the programme might legitimately be reversed.

But there is no sign that the authorities have yet recognised this situation. Licences have been issued at just over 1,500 a month from July to September, inclusive (Table 81 of the Digest). Unless the issue of licences is speeded up, private enterprise will not begin even one house to every four of the local authorities.

### THE LABOUR POSITION

There were 167,400 men engaged on the construction of new Permanent houses at the end of September. This was a considerable increase (nearly 11,000) on the figure for the previous month. It still represents, presumably, about half the target figure to be attained with a full programme.

The total insured in the industry (males aged 16-64) reached over 1 million in September, and the total employed in the industry has been larger than the average for 1938 since May of this year. Expansion of the man-power in the industry cannot continue for ever; at present it looks as if the  $1\frac{1}{4}$  million target figure of the White Paper will be passed sooner than four years from the end of the war.\*

If the other items of labour employment are examined, it will be seen that temporary housing now takes over 40,000 men—which no doubt partly explains the good progress of this part of the programme. Labour on preparation of housing sites is, on the other hand, declining; the number of sites being developed is also declining—and one can only repeat the warning given in last month's commentary, that the site position by 1947 may well be unhealthy if more foresight is not shown.

The increase of sites "to have developed concurrently with erection of houses" is not a good offset to fully developed sites. The former category may conceal any number of causes of delay in future progress.

### TECHNICAL DEFECTS IN THE STATISTICS

A full discussion of the labour position is, however, difficult, in view of the continued defects in the statistics presented. Month after month we are told that 101,000 men are engaged on "Conversions and adaptations to houses, etc." Any non-statistician seeing this figure appearing from month to month, would either accept it as true, or wonder whether he was not being led up the garden path. Perhaps the latter reaction would be the safer. For if there are 101,000 men on this work, where is the result of their labours? Are we to believe that they converted only 2,561 houses in one month? If they are not on this work, what are they really doing—into which alternative category should they be placed?

Other difficulties in the Building Statistics need clearing up. For instance, there is a corrigendum to the October Monthly Digest which puts against the item (for temporary housing) of Hulls Produced in September the sign —. The sign — is defined as nil, or less than half the final digit shown, *i.e.*, less than half of one hull. Is the corrigendum correct? Has there been a complete cessation of production of hulls for temporary houses?

It is hardly likely that production has ceased, and the corrigendum itself seems open to correction. The Hulls Produced column in Table 82 of the Digest is qualified with the rubric that "the figures relate to periods of four and five weeks. The five-week periods are marked with an asterisk." But what about the other figures in the same table? Plotted on a graph, they look singularly as though they were also four- or five-week figures, though of course this is not conclusive. However, it is clearly cumbersome and difficult to obtain figures other than on a weekly basis, so why not put them (if they

\* Cmd. 6248, 1943. The  $1\frac{1}{4}$  million was, according to the plans of 1943-4, for the building industry only (*i.e.*, excluding civil engineering).

are not already) on such a basis, and asterisk them accordingly? The same suggestion might be applied to several of the other housing tables.

This question of months may seem trivial, but it is surely essential to have figures from month to month on a comparable basis. A serious misinterpretation of the trend of events is otherwise possible.

The building materials figures are also deficient in comparability. Yet one would have thought that it was no insuperable task to present the monthly production figures of bricks and cement in a comparable form.

### BUILDING MATERIALS: PRODUCTION AND STOCKS

The graph (right) shows average weekly production of the principal building materials, for each month since July, 1945. Some figures for stocks are also shown. (Weekly averages have been used to avoid the confusion caused in the Statistical Digest by the mixture of four-week, five-week and calendar months.) The general picture afforded by these graphs is that while the production of building materials is going up, it is not on the whole keeping pace with demand, since in all cases where figures for stocks are available they show an unmistakable downward tendency.

The brick position, for example, is very much less favourable than appeared last month, partly because an incorrect figure was then given in the Digest. On July 30 it was estimated officially that stocks by the end of September would be 300 millions; in fact, they were only 267 millions—about three weeks' supply. Cement production is doing well, and the stock figures are not very significant (they would be much more serviceable if clinker stocks were published as well, since it is in this form that the significant reserves are held). Stocks of roofing slates have seriously declined, but there is still some buffer left; the disquieting feature is the failure of slate production to rise significantly. The decline in stocks of damp-proof course slates has been really catastrophic; clearly consumption here has overwhelmingly outrun supply, and now there must either be a serious hold-up of building work or use of some alternative material. What is happening about this? Some official comment on this point would be enlightening.

Then comes the group of "gypsum" commodities—gypsum itself, plaster and plasterboard. Production of all three is rising; unfortunately, there are no stocks figures given for these items, except for plasterboard. Here, though stocking on a large scale is not a common practice with manufacturers, the trend downwards in stocks is noticeable, and indicates a current failure of supply to meet demand. Despite the absence of figures, it is reasonable to infer that the same position holds for plaster too, and here clearly is a bottleneck that needs to be broken.

The production of water heaters has risen very considerably since 1945—as the Digest shows; it is the steepest percentage increase of any of the materials in question. Output of baths has risen less spectacularly, and it may be inferred that local difficulties of supply to new housing estates will continue until this is remedied.

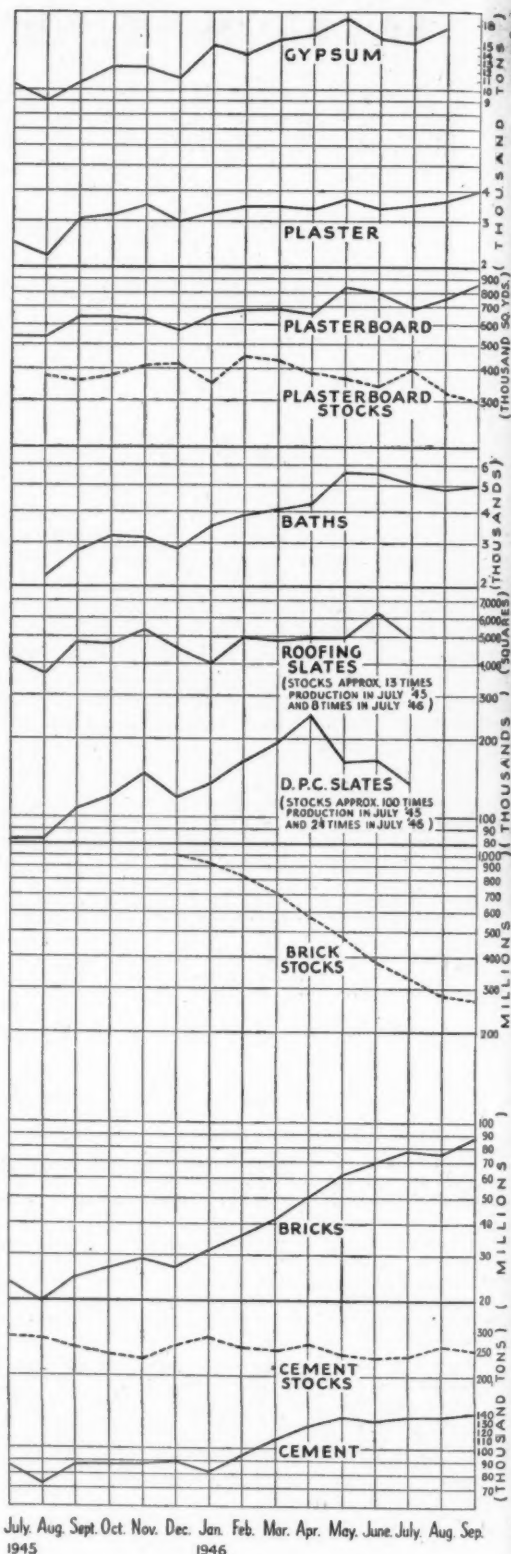
### SUB-CONTRACTING AND COSTS

The building industry has not had an officially sponsored incentives scheme since Payment by Results was abandoned last year. The sub-committee of the Joint Production Council, set up in December, 1945, has not yet produced a report on incentives' schemes. For some time now this absence of official blessing for piece-work has led to evasions and subterfuges, and has particularly hampered contractors of high reputation, or those working under close supervision for local authority contracts, who strictly adhere to the working rules accepted by the industry.

One of the most widely prevalent of these evasions has been the use of sub-contractors to do work that would normally be done in a main contract. Little evidence is available statistically on this point, but a number of advertisements for sub-contract tenders for brickwork, painting, etc., have appeared in local papers all over the country. According to a recent letter to *The Times*, some of these "sub-contractors" who are for the most part workers who have recently registered as firms, make £16 per man per week. Yet the main contractor gains from paying this sum for willing work rather than paying the official time-rate for a poor week's output.

Between January 1 and September 30, 1946, no fewer than 56,053 new master builder's certificates were issued. Some of these no doubt went to genuine new businesses, but a number must have gone to the time-rate dodgers.

This state of affairs raises very wide issues, and the solution cannot be simple. One conclusion that must be beyond dispute is the necessity for considering as a matter of urgency the adoption of some system, acceptable to the unions, to take the place of Payment by Results.



July. Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May. June. July. Aug. Sep. 1945 1946

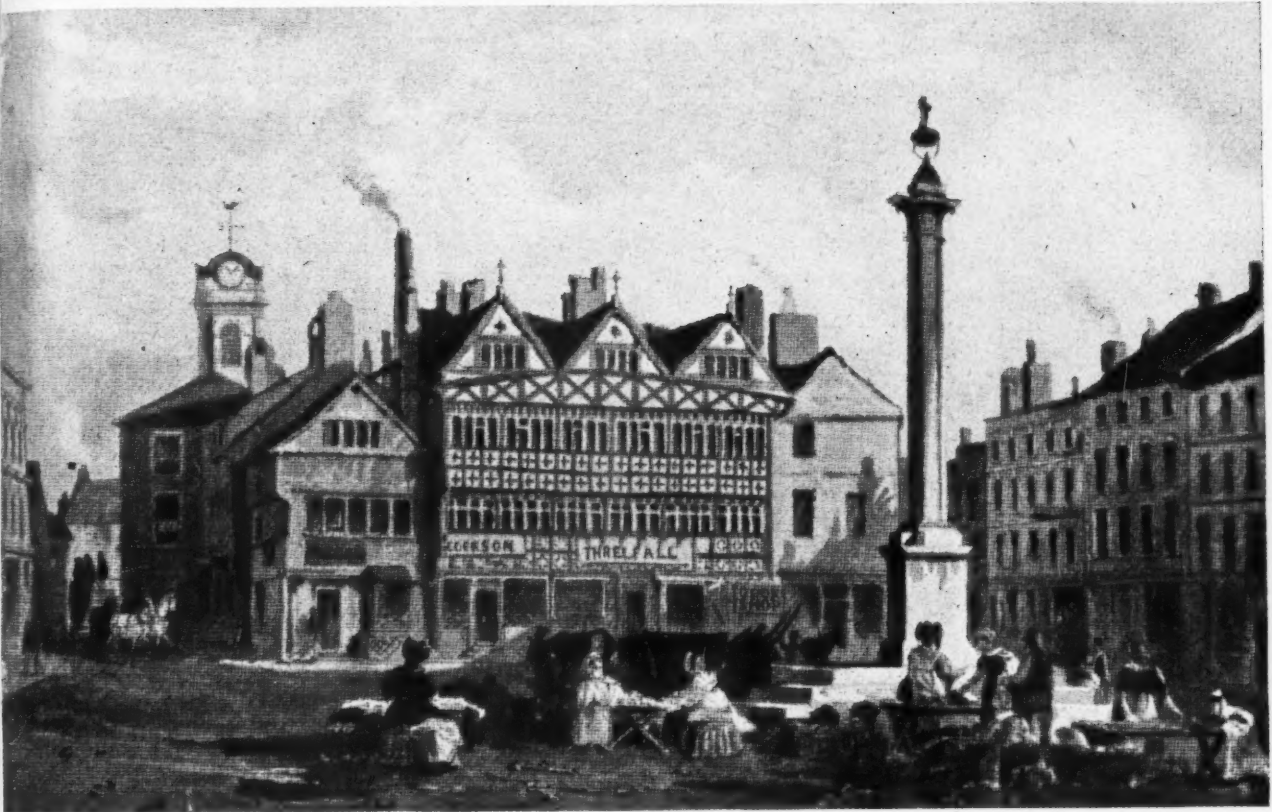
Logarithmic graph showing the average weekly production of materials and their stocks from July 1945 to September 1946. Dotted lines show stocks.

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## PHYSICAL PLANNING SUPPLEMENT



## PRESTON

## PROPOSALS FOR PLANNING AND REDEVELOPMENT

The Town Planning and Development Committee of Preston has published a Booklet to give the citizens some idea of the problems that have to be dealt with in the planning and redevelopment of Preston. Preliminary proposals for replanning put forward by the Borough Surveyor, Mr. Granville Berry, are included in the Booklet, and are reviewed below. Above, an old engraving of the Market Place, which was the converging point of the three main streets of Preston prior to 1790.

Preston's situation on the north bank of the Ribble, commanding the easiest rail and road crossing west of the Pennines, creates exceptional traffic problems as well as opportunities for bold and imaginative treatment of the river-front, and has led to a divergence from standard planning practice in regard to roads and open spaces.

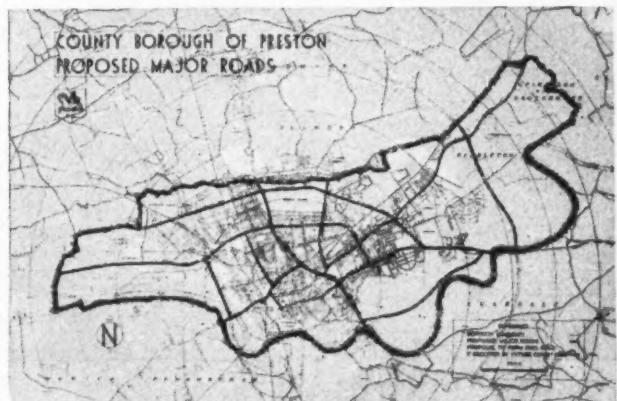
## roads

A considerable volume of north-south traffic is forced to pass through Preston in order to cross the river valley, whose steep northern slope renders unsuitable the spider's web formation of a fully developed ring road system. Instead, roads tend naturally to the roughly fan-shaped pattern which has been adopted in the proposals. Moreover, the projected outer ring road (part of the national trunk road system) is not likely to encircle the town completely, but rather bend sharply inwards on the west in order to cross the river at a convenient point. The main detailed proposal is the

construction of an inner by-pass through obsolete property, which will relieve the central area of through traffic. Long-term proposals allow for the addition of a southern link to convert the by-pass into an inner ring road, if warranted by future conditions, but this is not considered practicable at the present time.

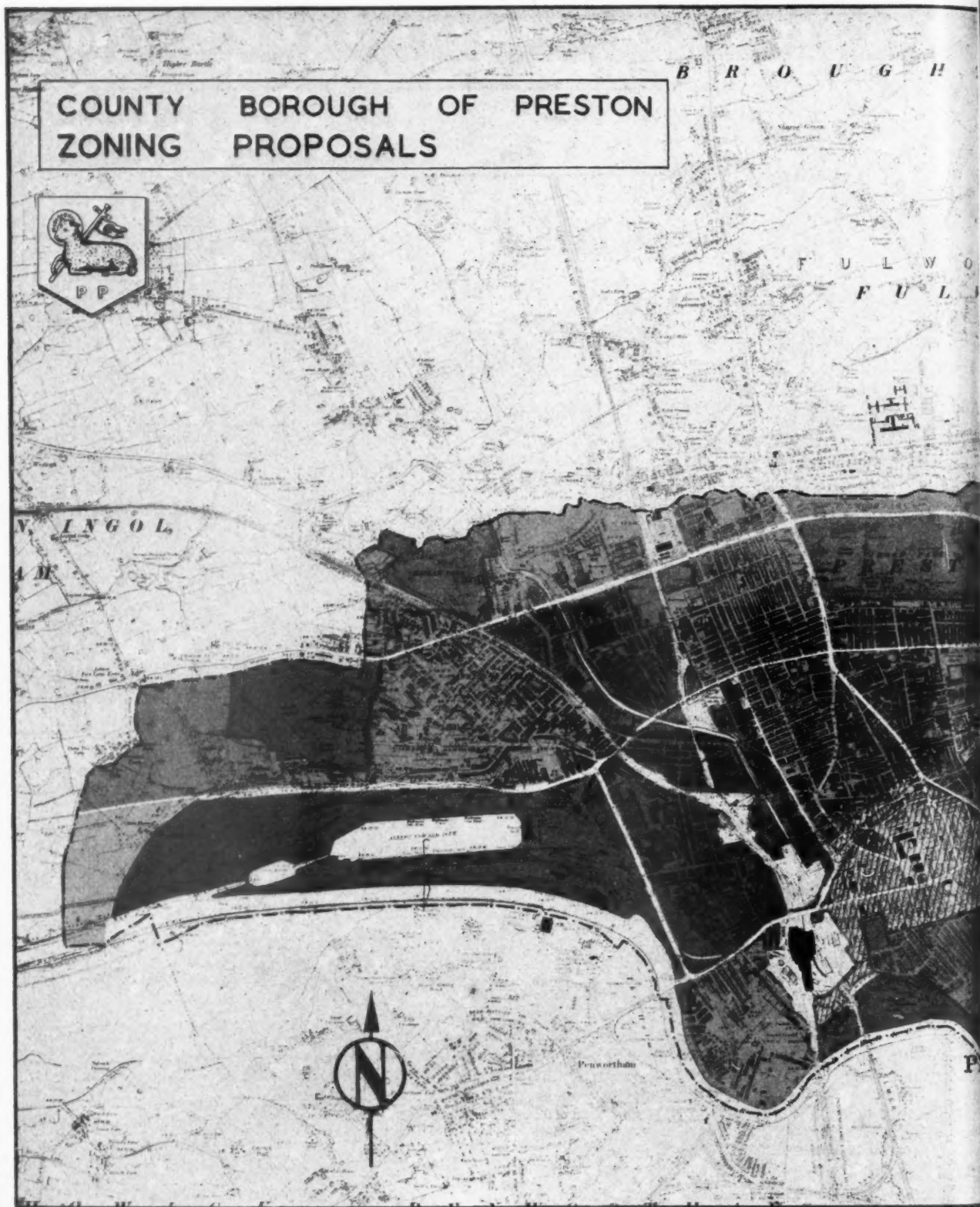
## central area

The inner by-pass will enable the central area to be re-planned as a Civic, Commercial and Shopping precinct. The proposals include the construction of a Processional Way,



Preston has a difficult traffic problem in the north-south through traffic, which has to pass through the town in order to cross the river. An inner by-pass is proposed to deal with this.

## MAJOR ROADS



## ZONING PROPOSALS

The Zoning Proposals for Preston sort out the existing mixture of uses, and provide for an industrial increase which is justified by the demand for industrial sites. Reservations for open space envisage the improvement of the amenities of the river.

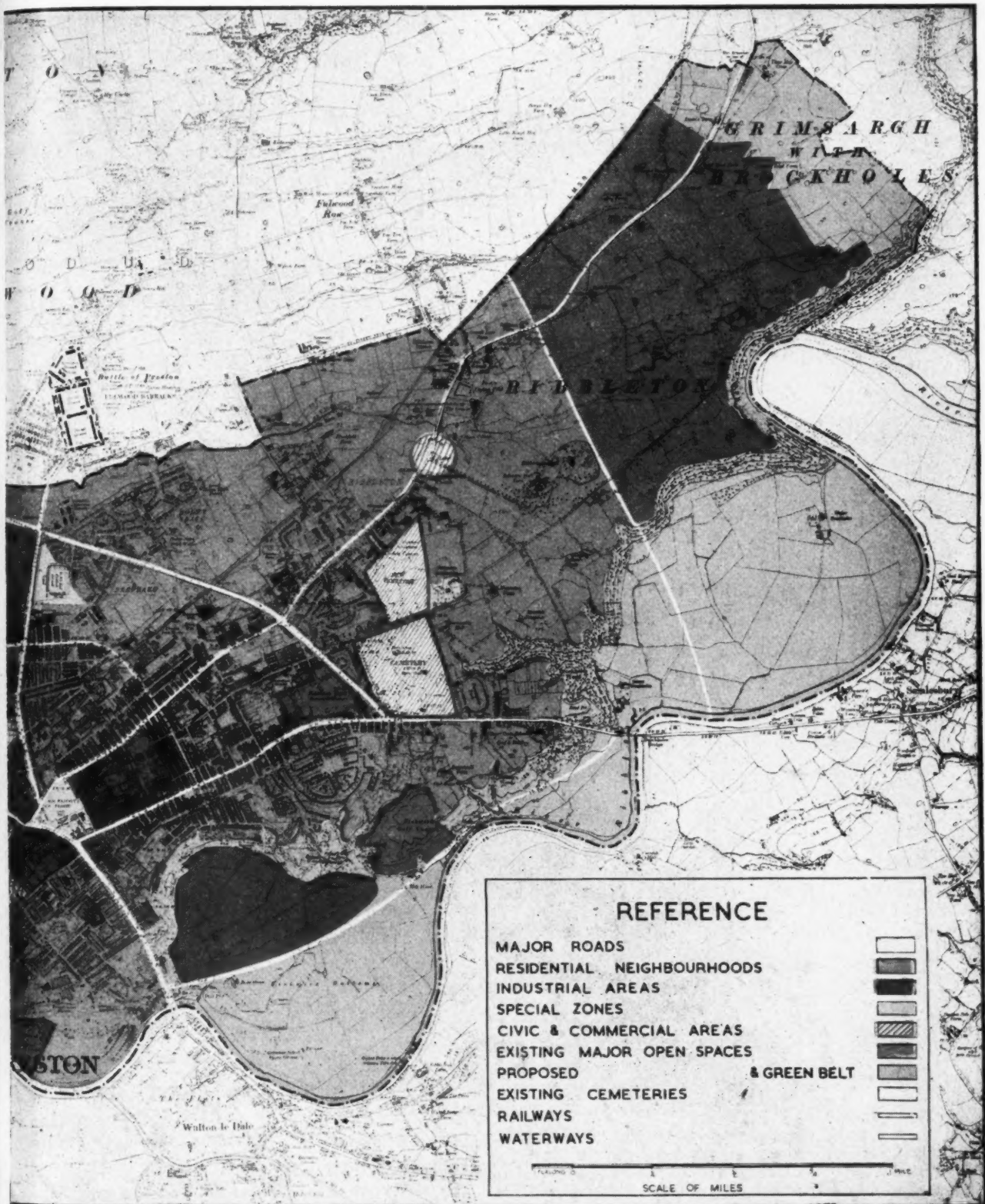
flanked by public buildings, from the Municipal Building to a new Civic Hall.

Preston already possesses an imposing group of civic buildings flanking the old Market Square which form the nucleus of the proposals for a civic centre. Associated with the civic centre will be Educational and Public Health Centres.

**open space and river front**

Although the town is fortunate in the number of fine public

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parks, there are still many areas with a deficiency of open space. The proposals include future provision for these amenities as redevelopment takes place.

It is strongly recommended that the beauty of Preston's river front should be maintained and enhanced by rendering a stretch of the river non-tidal and establishing a sports centre, and possibly a University College upon its southern bank, opposite Avenham Park. This reservation of an open

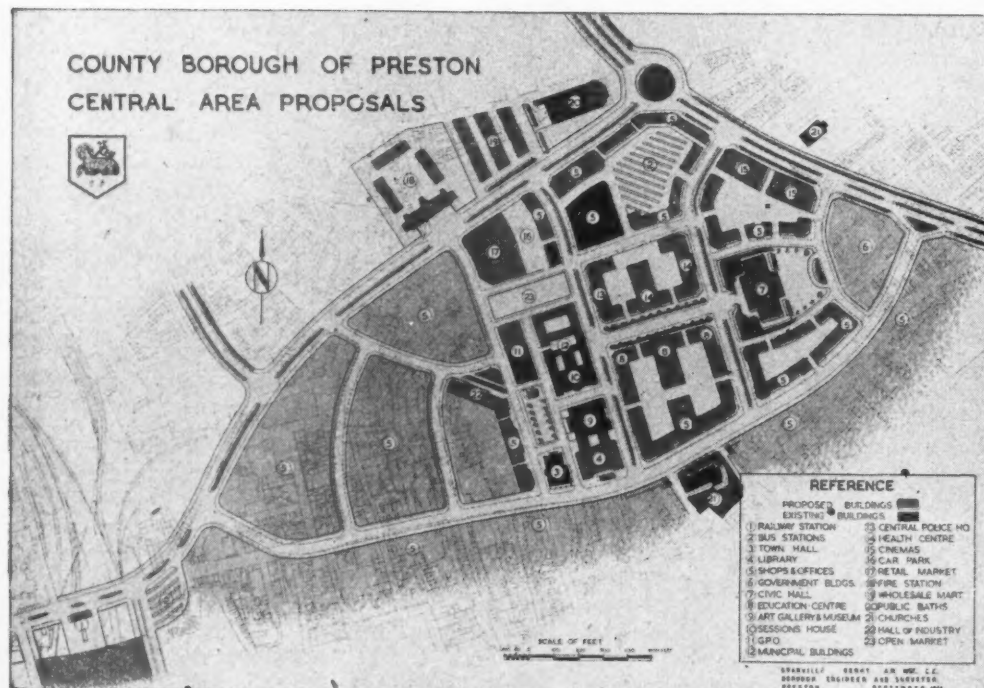
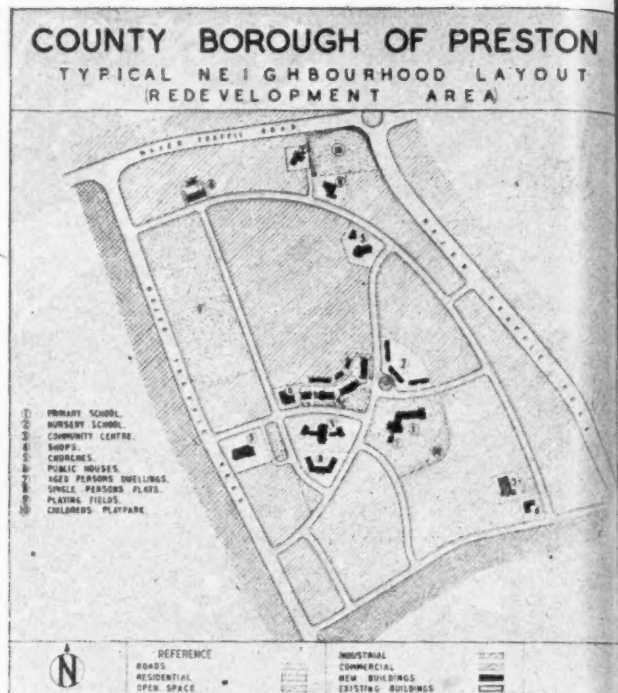
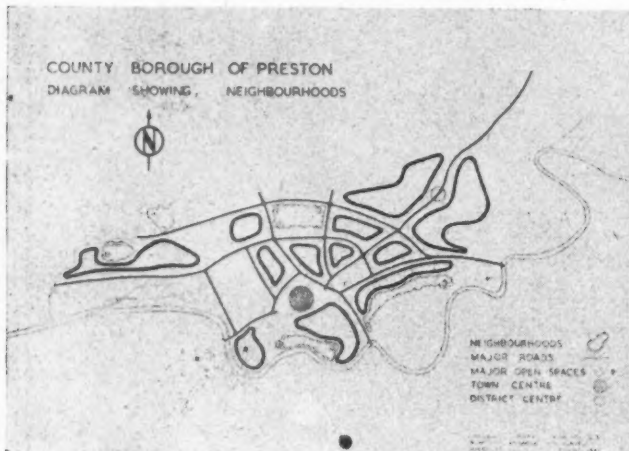
riverside area near the centre of the town, for the benefit of the people of Preston and surrounding districts, is a special feature of the plan.

#### zoning

The nineteenth century left Preston the usual legacy of overcrowded dwellings intermixed with factories, and the plan proposes the creation, by periodic stages, of separate

## NEIGHBOURHOODS

Below, the proposed grouping of residential areas to form neighbourhoods. Right, a typical layout for a neighbourhood in a redevelopment area. Proposals have been submitted to the Boundary Commission for the inclusion within the Borough of certain dormitory areas having a close relationship with the town.



Preston already possesses the nucleus of a Civic Centre, and the new proposals are based upon this. The advantage of some dispersal of public buildings within a central area cannot be overlooked, i.e., in its overall benefit to architectural character, and the fact that it is not always necessary for all administrative buildings to be in very close association.

## CENTRAL AREA

industrial zones and residential neighbourhoods.

The demand for sites for new industries far exceeds those available, and a new industrial or trading estate at Fishwick is suggested to meet in part this situation. A new road will prevent the periodical flooding of this site.

### housing

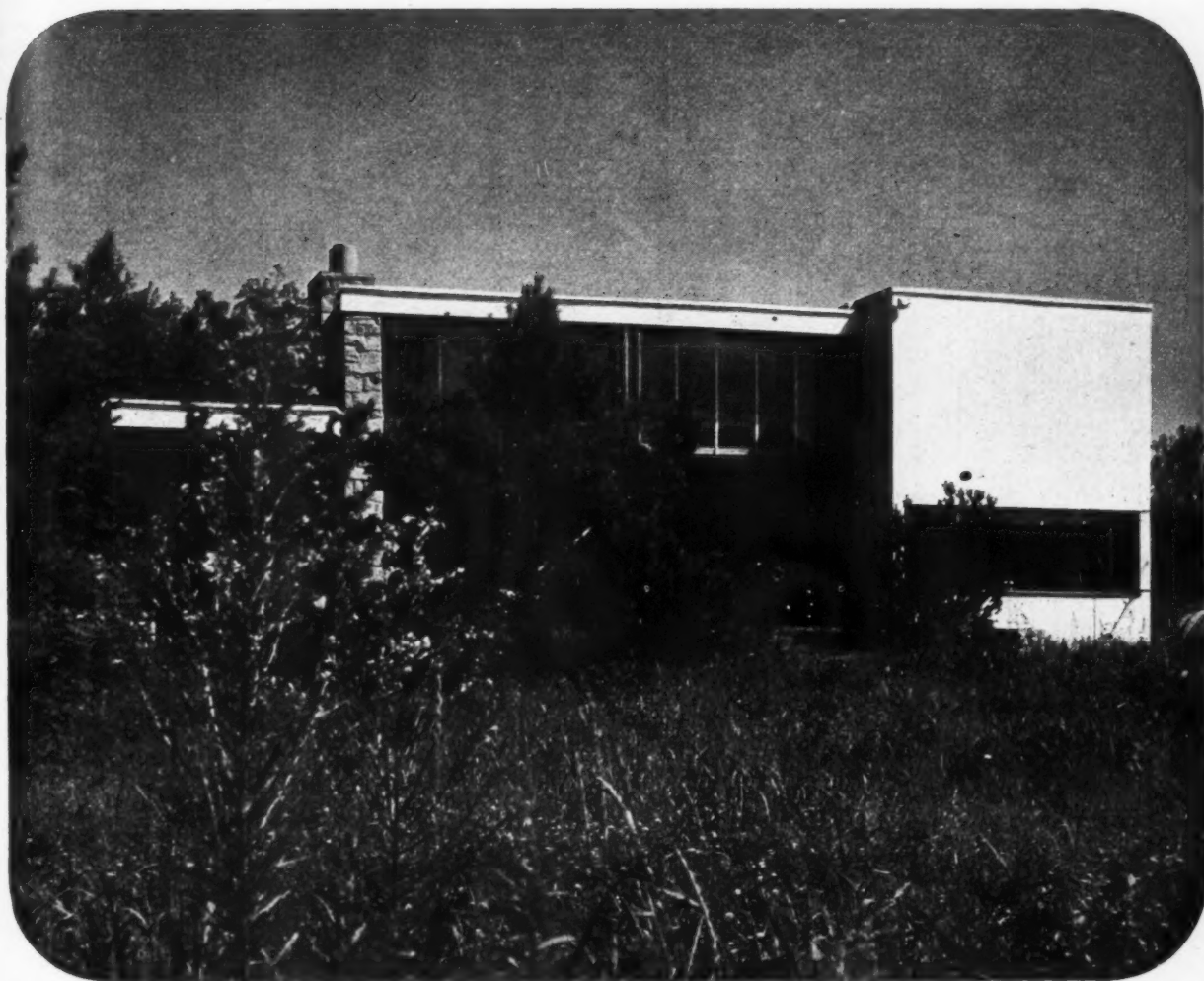
Approximately half the houses of the town are over 60 years old and should be replaced at lower densities, over a period of time. There is an acute shortage of land within the Borough, and proposals for extension have been laid before the Local Government Boundary Commission.

A pattern of residential neighbourhoods has been drawn up

in association with the major road pattern.

### regional centre

Preston is a regional centre serving an area extending considerably beyond its present boundaries. It needs more land to develop these services, to house its people in conformity with modern standards, and to improve its river front. Between the two wars there was in the Preston Region a tendency to destroy the distinction between town and country—scattered and straggling development extended from Preston to the edge of some of the villages. The outline proposals indicate how expansion can be combined with the preservation of a more effective green belt than exists to-day.



The south elevation showing the two storey living room window. The external finish to the dining room wall on the right is vertical T. and G. redwood on wood frame. The two posts in the centre of the large window are of hard pine.

# HOUSE AT LINCOLN, MASS.

DESIGNED BY WALTER  
GROPIUS AND MARCEL BREUER

GENERAL.—The house, built for Mr. Breuer, stands upon the edge of a slope, the entrance front (east elevation) is level, and the ground slopes away to the south and west. The plan can be divided into three distinct blocks or zones: the front entrance hall and living room

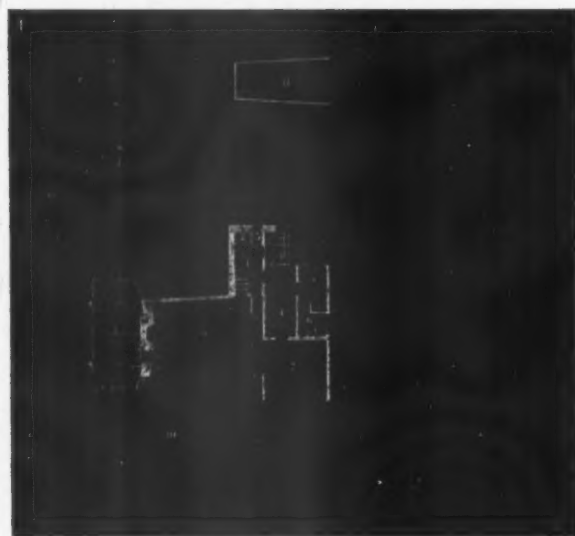
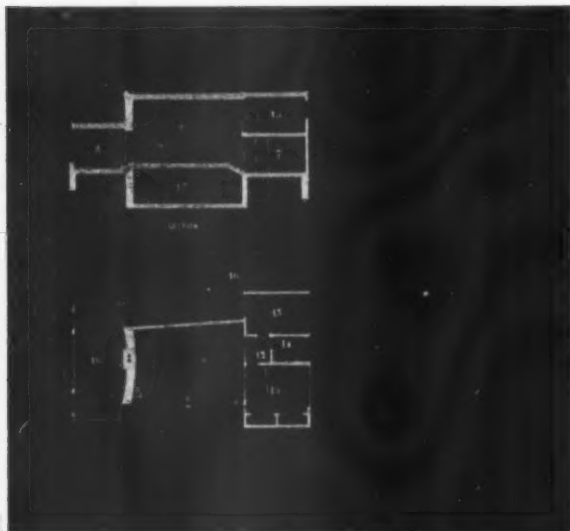
(14 ft. by 20 ft. 6 in.); the dining room (12 ft. by 13 ft.), with the kitchen, etc.; the first floor bedrooms, etc. From the stone paved porch and hall, one ascends a short flight of stairs to the living room. The dining room and kitchen are at hall level and are reached from

the living room by another flight of stairs. An open staircase from the living room leads to the first floor bedrooms, etc. The larger bedroom (9 ft. 9 in. by 13 ft.) has an open view to the living room.

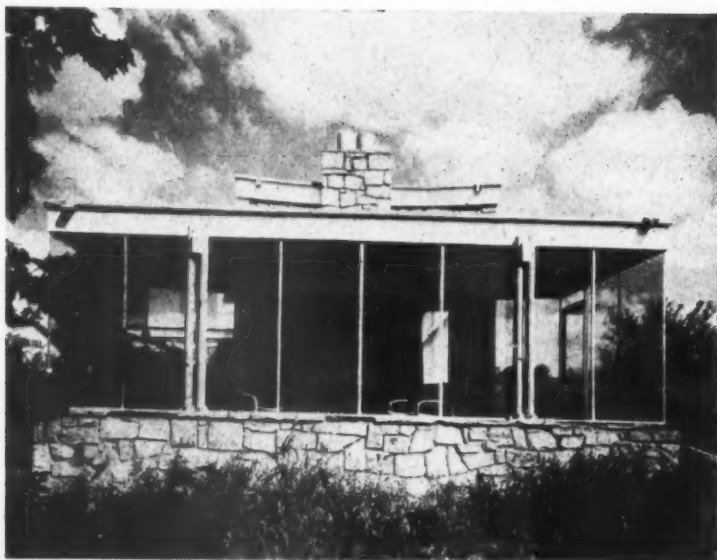
CONSTRUCTION. — The main structure is wood framed (fir) with the west fireplace wall to the living room and the entrance hall wall of field stone.

Externally, the house is finished with T. and G. redwood vertical boarding. Windows are steel sash (casement type) and the roof falls towards channel outlets, no gutters or r.w.p.'s are used.

The screened porch at the west end is supported by two sets of double hard pine posts, which take the roof beams.



Top left, first floor plan and section. Centre left, ground floor plan. (Legend: 1, entrance hall; 2, coats; 3, service delivery; 4, kitchen; 5, maid's room; 6, maid's bath; 7, dining room; 8, screened porch; 9, studio living room; 10, terrace; 11, car port; 12, hall; 13, bedroom; 14, bath; 15, study; 16, roof; 17, basement. Above, the south-east corner of the dining room seen from the living room; the far wall is finished with sawn fir; the two windows are fitted with Venetian blinds. Below, left, the west elevation showing the screened porch; the double posts are of hard pine; no gutters or down pipes are used, the rain water being thrown clear of the roofs by projecting channels.



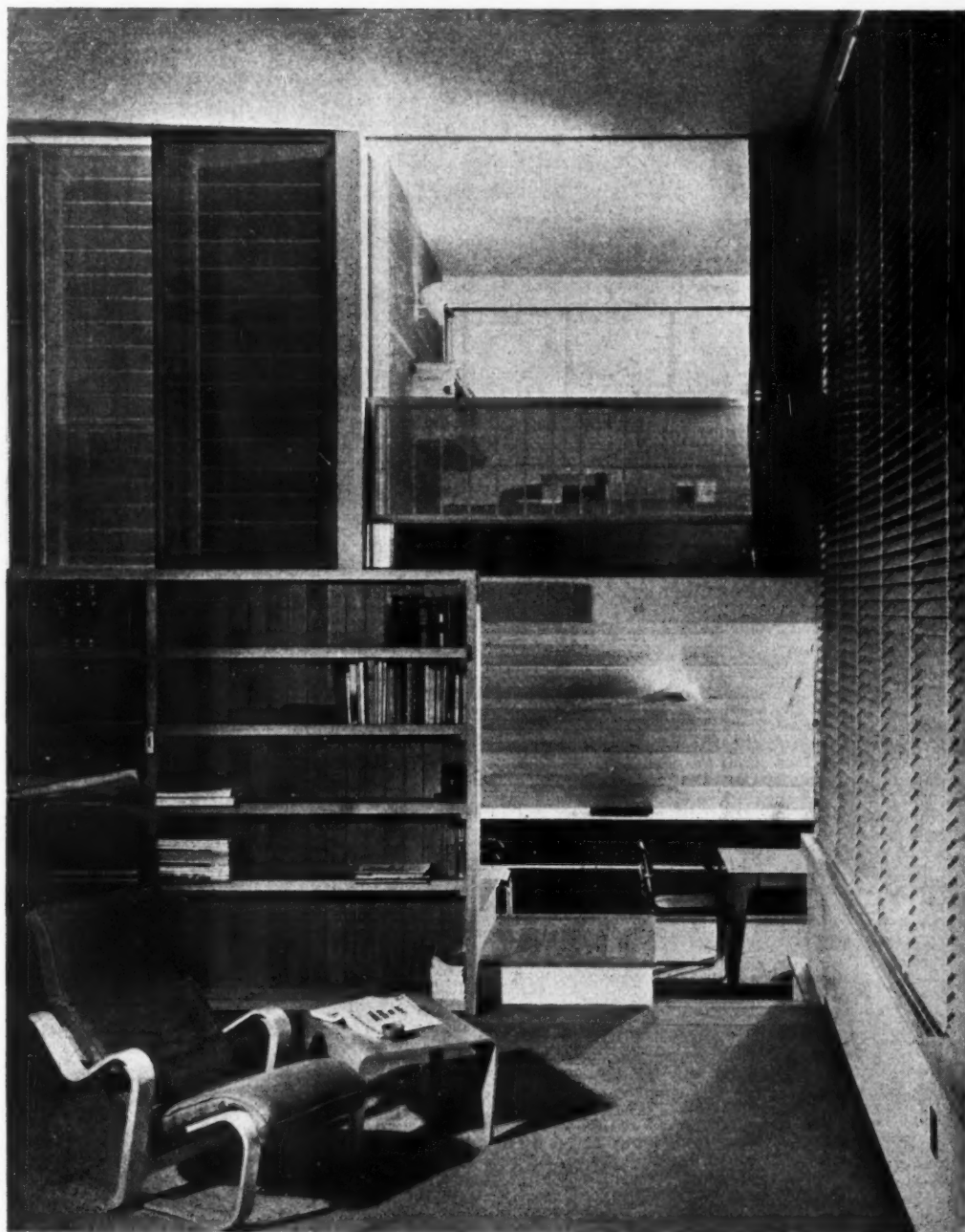
**INTERIOR.**—The wall finishes are field stone in the living room and entrance hall and fir panelling and plywood panels elsewhere. The ceilings are finished with plywood.

The hall and screened panel at the west end are stone paved, the kitchen and bathrooms being finished with lino; elsewhere close carpeting is used.

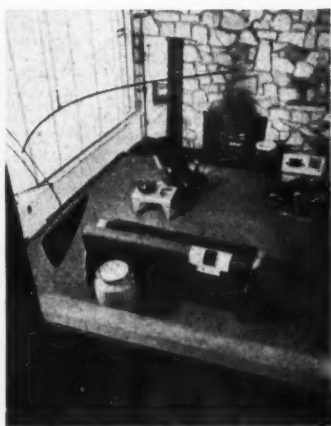
The screens to the first bedroom and landing are made of penoleum, in wood frames.

Heating is from a boiler, situated in the basement, under the living room, and inlet grilles are provided at cill level of windows.

Most of the furniture has been designed by Mr. Breuer.



*Above, view from the living room showing the dining room at the lower level, above which is the bedroom with its balustrade screen; this screen and the landing screens on the left are of penoleum in wood frames. Below left, a view of the living room fireplace wall. Below right, the living room from the open first floor landing, showing the curved field stone fireplace wall and the opening to the porch on the left.*



HOUSE AT LINCOLN,  
MASSACHUSETTS  
DESIGNED BY  
WALTER GROPIUS  
AND MARCEL BREUER

# INFORMATION CENTRE

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

## PHYSICAL PLANNING

2823 Northern Ireland Roads

ROAD COMMUNICATIONS IN NORTHERN IRELAND: INTERIM REPORT OF THE PLANNING COMMISSION. *Government of Northern Ireland. (HMSO, 1946, Cmd. 241, 1s. 0d.)* Existing road system. Proposals for revision. General considerations. Very useful technical data. Two appendices.

The report begins with a brief survey of the existing system of road communications in Northern Ireland and their administration. The Commission is of the opinion that the existing administrative system should be centralized so that in the case of smaller urban districts the control, provision and maintenance of main and secondary traffic routes and of unclassified roads in rural districts should be vested in a single county highway authority. It also considers that those main roads in the existing system which constitute the provincial traffic arteries should be vested in a single governmental authority responsible for their upkeep and maintenance, thus achieving uniformity of design and construction. The Commission is further of the opinion that the existing system of road classification should be extended by two additional classes, namely (1) the motorway where traffic is confined to motor vehicles only, and (2) the arterial road, both to be vested in the Government department charged with roads administration, and their provision and maintenance to be a direct charge on the funds of the Central Government.

Before engaging on any major programme of road reconstruction and improvement a comprehensive survey of all existing class I and class II roads in Northern Ireland should be undertaken and the highway authorities carrying it out should receive financial assistance from the Government.

A properly designed system of roads should be so constructed that it forms part of the landscape, suitable tree planting should be encouraged, and petrol pumps, filling stations and any form of road furnishings should be subject to strict control of design and colour. Buildings should not have direct access on to the main traffic routes, and legislation should be introduced to prevent ribbon development. In the case of built-up areas and in special circumstances where roadside development is permitted the building line should be at a minimum distance of 60 feet from the centre line of the road. In the case of dual carriageways the centre line for the purpose of fixing the building line should be that of the nearest carriageway.

In regard to technical considerations particular reference is made to the motorway. It should be a road of the highest quality designed for high speed and uninterrupted communication between two points, or a series of points, with every other consideration subordinated to the needs of the utmost

safety. It should avoid built-up areas; be continuously fenced off; and should not be used for access to adjoining property. The carriageways, two or three-lane, 22 or 30 feet wide, should be dual with infrequent cross connections. Necessary connections with major roads should be brought in at carefully designed junctions, and less important roads should be carried over or under the motorway. The minimum fence to fence width for a motorway without service roads, cycle tracks and footpaths should be 100 feet, made up of two carriageways 30 feet each ultimate width with a central reservation of 20 feet and two 10 feet margins.

## MATERIALS

2824 Linoleum

LINOLEUM AND CORK CARPET. *BS Code of Practice. Draft for comment. General Series Code 2.151. (British Standards Institution. 2nd Proof. 1946. 1s. 0d.)* Covers quality and suitability of materials, general characteristics, methods of laying, maintenance. Definitions confusing. Generalization of little significance. Lack of precise information on details of importance, e.g., underlays and adhesives.

2825 Cement Bitumen Flooring

CEMENT BITUMEN MIXTURES FOR FLOORING (TENTATIVE). *B.S. Code of Practice. Draft for comment. General Series Code 2.144. (British Standards Institution. 2nd Proof. 1946. 1s. 0d.)* Deals with materials, flooring mixtures (no B.S. available covering this type of floor), general characteristics, uses, site exposure conditions, bases, methods of laying, polishing, and maintenance. Useful guide to a type of flooring laid at present under various proprietary names, and not as yet widely used.

This type of floor is said to have good resistance to wear and abrasion, though heavy weights may indent it if maintained over long periods. It is also said to show little tendency to crack. In addition it is not appreciably affected by water and may be used on solid ground floors without a damp-proof membrane. It may be used under most conditions, but is not recommended for kitchens.

Apart from a few vague statements such as: "A satisfactory time interval should be allowed for the floor finish to mature, before opening to traffic" and "Where it is necessary to lay a cement screed to form a level surface for the wearing floor, an appropriate interval should be allowed for the screed to harden," the code gives useful

factual information. It is to be revised in the light of further experience.

2826 Calcium Sulphate Flooring

CALCIUM SULPHATE FLOORING (TENTATIVE). *B.S. Code of Practice. Draft for comment. General Series Code 2.147. (British Standards Institution. 2nd proof. 1946, 2s. 0d.)* Deals with materials (no B.S. available for calcium sulphate for floors), general characteristics, uses, preparation of bases, methods of laying, maintenance.

This type of floor is thought to be satisfactory for light traffic, but is cold and non-resilient. An overriding condition for its use is that it shall not be subject to dampness. With this proviso it may be used for living rooms, offices, schools, and canteens, and as an underlay for lino. The code gives sufficient information to determine its suitability for any given situation, and to specify a suitable base. Instructions for laying are given, but this would probably best be done by a specialist firm. The code is to be revised in the light of further experience.

2827 Composition Block Flooring

COMPOSITION BLOCK FLOORING. *B.S. Code of Practice. Draft for comment. (British Standards Institution. 2nd proof. 1946. 1s. 0d.)* Deals with proprietary composition flooring units of about 6" x 2" x 1/4". No B.S. available covering composition. Code covers laying, resistance to wear. Uses: schools, living rooms, halls and bedrooms: doubtful in kitchens and bathrooms. Special units, general characteristics, maintenance, preparation of base and method of laying.

## PLUMBING and Sanitation

2828 Domestic Plumbing Defects

SOME COMMON DEFECTS IN PLUMBING DESIGNS FOR POST-WAR REPETITION DWELLINGS. *Information Bureau, Building Research Station. (Building Research Station, August, 1946.)* Notes on design defects observed in recent schemes submitted to BRS for comment. Supplementary to comments on pre-war practice in Plumbing Committee's Report. Special emphasis on unjustified expenditure, relation between plumbing and house plan. Valuable critical commentary on present design tendencies. Typescript, not illustrated.

The Report of the Plumbing Committee (Post-war Building Studies No. 4), approached the subject by way of a list of commonly occurring defects in pre-war practice, deriving its recommendations from a consideration of these. The same approach is adopted in the present note, but the defects listed are supplementary to those listed in the report, and have all been observed in schemes for post-war houses submitted to BRS for advice and comment. The defects have been grouped under 20 headings, with a short critical comment on each. The following is a summary of the points noted:

1.—Attempts to produce a universally applicable plumbing design. Plumbing practice varies from region to region according



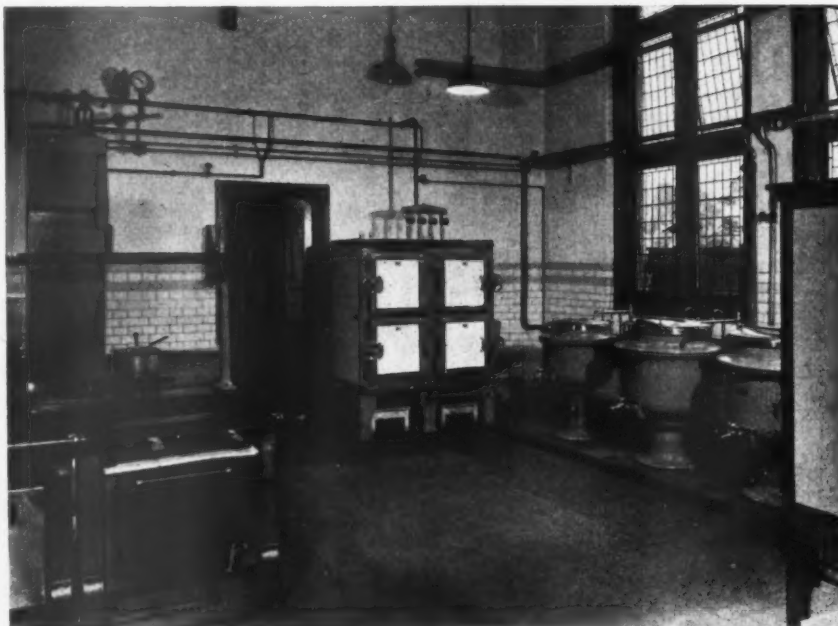
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# COOKING APPARATUS

## SPECIALIST KITCHEN PLANNING



### At Cambridge University

Part of the new gas and steam cooking apparatus installation of Girton College, Cambridge. Below is the "Hercules" dishwashing machine, which is also a product of Benham & Sons Ltd.

Architects :  
Messrs. Waterhouse & Ripley, F./F.R.I.B.A.

Girton College kitchen is what can be described as the first post-war kitchen installation by the Company coming under the heading of Schools and Colleges. Prior to the war some good examples of kitchen installations were to be found at Gonville and Caius, and Peterhouse Colleges, Cambs.; Milner Court, Sturry; Brasenose College, Oxon; St. Paul's School, Hammersmith; Victoria University, Manchester; Howett's School, Denbigh; Police College, Hendon; Ladies College, Cheltenham; Edgehill College, Bideford, etc.



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to water characteristics, and abundance or otherwise of supplies. A single design must be based on the most stringent of local conditions, making it unnecessarily costly for other districts. Design should be based on local water supply conditions and practice.

2.—*Appliances so located on plan as to need excessive lengths of pipe.* This usually arises from allowing general planning to proceed too far without reference to plumbing problems. Special examples are (a) linen cupboard remote from boiler, making flow and return pipes too long and resulting in an inefficient, fuel-wasting system. (b) Kitchen sink remote from hot tank, needing excessive lengths of service pipe and causing losses by cooling of hot service pipe.

3.—*Use of the one-pipe system for its own sake, without regard to economy.* Internal stacks create special problems, including space for, and encasement of, the stack, and provision for its penetration at roof level. In addition, the length of waste branches and need for deep-seal traps must be considered, as well as extra care in workmanship. Not all plans favour the one-pipe system, whether the stack is inside or outside the building.

4.—*Difficulties in domestic cleaning caused by unwise location of appliances.* A point specially mentioned is the need for effective sealing between units placed close against one another. Sealing is also essential wherever appliances are butted against walls. Pipes should be clear of walls so that they can be cleaned all round.

5.—*Concealed pipework leading to the possibility of vermin infestation.* The cost of adequate sealing against vermin may be such that open plumbing is to be preferred.

6.—*Use of large and costly prefabricated plumbing units.* Experiments at BRS show that site man-hours for a conventional domestic plumbing system can be reduced to a very low figure by simple off-site prefabrication of pipework in short lengths. Thus the manufacture of large prefabricated units, involving special frames and transport, needs careful checking to ensure that it is, in fact, competitive in economy and efficiency.

7.—*Need for provision for site adjustments in pipe fixing.* Building tolerances are wide by comparison with jig manufactured pipework; provision for site manipulation of pipes by hand pressure is essential to avoid waste of site man-hours. This problem should be considered at the design stage and not left to the man on the site to overcome.

8.—*Site connections unsuitable for speedy assembly, or present in excessive numbers.* Site operations should be rehearsed in the mind of the designer to ensure that minimum site-times may be obtained.

9.—*Lack of adequate access for the pipe-fixer.* This question of accessibility on site arises particularly in the case of baths; access from the end of the bath is the ideal, and various methods of achieving this are considered. Pipe connections in the hot-tank cupboard and pillar taps to sinks are other sources of difficulty in site fixing. The practice of running the cold rising main for some distance under the ground floor is deprecated because of the cost of subsequent access for repair (required more often than might be imagined). It is pointed out that difficult access for the installation plumber will be even more difficult for the maintenance plumber.

10.—*Placing of pipework in positions vulnerable to frost.* It is stated that this point is still frequently neglected.

11.—*Insufficient draining-down points.* Drain points are, needed where sinks are fitted with pillar taps, just above the stop-valve at ground floor level, and elsewhere where opening of taps does not fully drain pipework.

12.—*Omission of protective lagging against frost.* The roof space is not a desirable location for the cold water cistern. The cost of lagging it if placed here should be balanced against the cost of placing it below

ceiling level. Lagging should be provided to the rising main below the ground floor stop-valve.

13.—*Inadequate pipe sizes.* Flow tests should be made before the system proceeds beyond the prototype stage.

14.—*Excessive pipe sizes, greatly increasing costs.*

15.—*Placing of safety valve too far from boiler.*

16.—*Use of appliances and fittings not to the new British Standards.* Non-standard equipment needs special justification.

17.—*Provision of too small a cold water cistern.*

18.—*Traps liable to siphonage.* Any unorthodox system should be fully tested; the Plumbing Committee Report details approved test procedures.

19.—*Use of caulked joints on soil stacks within the building.* Possible faults in workmanship should be remembered; welded or screwed connections are preferred.

20.—*Schemes insufficiently prepared.* Both shop and site procedure should be fully worked out before production commences.

Many of the above points may appear elementary, but the fact that they continue to be observed in plumbing designs, both orthodox and prefabricated, suggests that plumbing still receives less attention than it deserves in relation to the planning of new houses. Perhaps the most significant observations are contained in (6), on the use of completely prefabricated plumbing units. There is much evidence to show that these have yet to prove themselves either economic or superior in efficiency to more orthodox methods. The work done at BRS on simple off-site prefabrication of pipework in short lengths is of special interest in this connection, and it is to be hoped that fuller details of the investigations will be published. Coming from the BRS, the present critical commentary possesses special importance; for a full appreciation of the points made it needs to be read in conjunction with the original Plumbing Committee's Report.

## QUESTIONS and Answers

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

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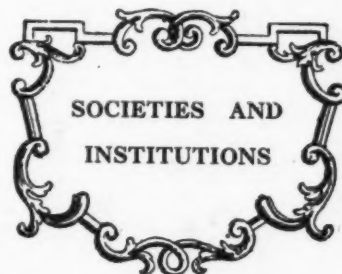
Planning Acts

Q I recently made an application to the Local Authority under the Town and Country Planning Acts, 1932, and 1943, and the Town and Country Planning (General Interim Development Order, 1945), for permission to rebuild premises comprising a shop with dwelling accommodation over, which has been totally demolished by enemy action. I have now received notice that the Town Council as the Interim Development Authority has considered the application and has decided to postpone consideration thereof (sic).

Has the Council powers to postpone consideration indefinitely, or are there any statutory provisions whereby a decision on an application must be given within a defined period of time as is the case with applications for approval under by-laws?

A An applicant who has received notice that the Town Council has decided to postpone the consideration of a building project under the Town and Country Planning (General Interim Development) Order, 1945, has the right to appeal to a Court of Summary jurisdiction within 28 days of the receipt of the postponement notice.

This Court can either uphold the Council's decision, or alternatively it can direct the Council to give a definite decision either one way or the other. Should the Town Council still adhere to its original decision the applicant has the right to appeal, under section 10 (5) of the 1932 Town and Country Planning Act, to the Minister of Town and Country Planning within 28 days of the receipt of this second refusal from the Town Council.



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

## RIBA

### L. H. Keay

November 12 at 66, Portland Place, W.1. INAUGURAL ADDRESS by the new President for the Session 1946-47. L. H. Keay, F.R.I.B.A., City Architect and Director of Housing for Liverpool.

L. H. Keay: It is eight years since a President of this Institute has delivered an inaugural address. I would first ask your indulgence for a brief reference to myself and to those who, like myself, fill official appointments.

For the first time in the long history of this Royal Institute you have elected as your President one whose whole career has been spent in the service of various local authorities. In the years to come my name, unlike those of many of my distinguished predecessors, will not be associated with any great masterpiece of architecture. The early days of my career were spent working as one of a team engaged upon the limited work then entrusted to the local authorities of this country. In more recent years it has been my lot to act as the leader of such

a team and to accept responsibility for the extended operations now devolving upon the larger municipalities. I am in fact a member of that much maligned class known as the Bureaucrats. I would, however, add in self-defence, that I am not of recent vintage.

This Institute, with the catholicity to be expected of it, does not differentiate between those who serve a private individual and those who elect to work as the servant of the community. Its function is to ensure that all who are admitted to its ranks are qualified to discharge satisfactorily the responsibilities they accept. Any who would attempt to divide our ranks do a disservice to the Institute, for its strength depends upon the closest co-operation of its members.

As briefly as I can I should like to recall the conditions of the immediate pre-war period and to suggest some of the guiding principles which should govern our work in the future. I should like to refer, also, to the necessity of inculcating among the people a more general appreciation of the Fine Arts and particularly of Architecture.

I am naturally anxious, at a time like this, when we must work together in a spirit of co-operation for the greater good of all to avoid raising any matters which might arouse controversy. It is difficult, however, not to refer to fashion or to styles, but I hope that if I do I shall not give offence to those who feel less bound to tradition than I do. If I remember rightly, more than one President during the decade before the War sounded a warning in his address against the acceptance of a machine-made architecture and an excess of functionalism which might lead to the complete abandonment of our traditional methods of building. The buildings designed immediately before the war showed that we had withstood the shock of extreme modernism and that we were settling down to a period of gradual evolution. We had borrowed a little from the Continent. For instance, many of our buildings showed the influence of some of the best Dutch and Swedish work. Little objection could be taken to this dissemination of good design if it was adaptable to our needs. After all, we marched to victory on the shores of Northern Africa to the strains of "Lili Marlene," which we borrowed from the Germans. The period I have referred to was one in which the standard of design was showing a marked and progressive improvement.

If I may refer to the work in which I was then more particularly interested, there was evidence of distinct improvement in the standard of small house design. But there was still much that was of poor quality in the piecemeal and unrelated developments of private enterprise and of many local authorities who were operating without skilled architectural advice. Those who had learnt the lessons which only practical experience can teach, and realized the restrictions resulting from timid legislation and ministerial regulation, began to speak of community planning. The building of houses in great numbers involved the preparation of a layout and the design of all the ancillary buildings necessary in a complete development. We remembered that we were both Architects and Planners and that we must be called upon to assist in the initial stages of a development if it was to attain success.

Because standardization and mass production must ultimately ensure more rapid output, the advantages of their adoption will be stressed by those to whom the urgency of finding a solution of our problems appeals more strongly than the manner in which we solve them. I do not for one moment suggest that we should oppose standardization merely because it is standardization. In many spheres it is long overdue, and if it can be followed by the mass production of certain essential components of better design and giving higher

efficiency, it will be for the greater good, for it will bring within the reach of all many of the essentials which otherwise would be available only to the few. But to-day those who are interested in the production of the machine are tempting the tired and poorly fed craftsman by offering to produce mechanically those things which hitherto only his skilled hands could fashion. It has been said that for every two steps we advance technically we slip back one artistically. If this be so, it surely points to the necessity of the closest collaboration between the craftsman and all those technicians who are devoting their abilities to novel forms of building and the manufacture and processing of equipment.

I referred to the increasing field of our clientele. This should follow from a wider distribution of wealth and a system of education in which there is an opportunity of attaining an appreciation of the Fine Arts. If this could be made possible we should secure for the people of to-day what was regarded as an essential in the equipment of the well-to-do in the eighteenth century. Unfortunately where this knowledge exists to-day outside our own profession it is often of an antiquarian rather than of a practical nature. It is for that reason that opposition to new ideas which cut across deep rooted traditions so often comes from the powerfully entrenched quarters of those who defend the old without any real ability to analyse and rightly assess its claim for beauty.

I am prompted to seek your answer to a question I often ask myself. Is the ability to appreciate the beautiful innate in us or if not can it be acquired by training or by the influence of environment? It is certainly not confined to any one section of society, though the degree of possession or the ability to develop it may vary considerably. You may think my question of little importance, but with every opportunity for building comes an obligation to add to the beauty of town and countryside. We shall be less likely to fail in the discharge of this responsibility if we have to face the criticism, not only of our professional colleagues, but also of a wider and more informed public. It is important, too, for another reason. We are living at a time when there is a tendency amongst some to ridicule traditions, when many of the little dignities of life are regarded as examples of servility and emotions prompted by the Arts as signs of weakness. It is essential that we should carry the mass of the people with us in our attempt to build a better Britain and we should take steps to secure opportunities for the development of architectural appreciation generally so that everyone who can may possess the ability to discern between the good and the bad and to recognise beauty, dignity and good proportion in our buildings.

A few weeks ago I attended, as one of your representatives, the festival of St. Luke which was held in the Church of St. Matthew at Westminster. I could not help feeling that the opening words of the first processional hymn written by that gallant veteran of the Church, Canon S. A. Alexander, *Blow the Trumpets*, was a direct challenge to our profession to indulge in a little discreet advertising, for in this hymn we were bidden to give thanks for "all the magic and the wonder" of the arts and for the work of craftsmen and the beauty of "all that with their hands they fashion." I left the Church of St. Matthew with the feeling that the blowing of the Architectural Trumpet might be for the good of the world.

As you know it has been decided to revive the award of the London Architecture Bronze Medal. Other provincial cities are reviving their awards, but it has often occurred to me that it would be to the general good if our allied societies published from time to time a Record of Current Architecture, giving illustrations of a number

of the best examples of the many varieties of buildings erected in their districts, with brief reasons for their inclusion as buildings worthy of note. To avoid any charge of advertising anonymity could be preserved. Such an authoritative publication if widely circulated might increase the desire amongst the people for a fuller understanding of architecture in particular and of the Fine Arts in general. We should be Blowing our Trumpet without transgressing any Code of Practice.

## Announcements

F/O L.A.A. Blomfield, 69 Lansdowne Avenue, Leigh-on-Sea, Essex, would be glad to receive manufacturers' catalogues, literature and data.

The Illuminating Engineering Society, bearing in mind that the Leon Gaster Memorial Premium was not awarded in 1944, has now decided to make two awards: to Dr. J. N. Aldington for his paper *Bright Light Sources* and to Mr. G. T. Winch for his paper *Photometry and Colorimetry of Fluorescent and Other Electric Discharge Lamps*. This premium, consisting of ten guineas and a certificate recording the award, is awarded annually by the Society for the best contribution submitted to, and published by, the Society during the session.

Mr. Alan S. Morris, A.R.I.B.A. (late Major R.E.), having returned from service overseas, has now resumed partnership with Mr. David E. Morrison, B.A. (HONS.) A.R.I.B.A. The title and address of the partnership is Morris & Morrison, A./A.R.I.B.A., 123/4, Newgate Street E.C.1. Tel: Metropolitan 8756. Trade catalogues, etc., will be welcomed.

The Minister of Health, Mr. Aneurin Bevan, has made two new appointments to his Central Housing Advisory Committee. They are: The Reverend Charles Jenkinson, Chairman of Leeds Corporation Housing Committee, and Professor James Mackintosh, M.D., Dean of the London School of Hygiene and former Chief Medical Officer to the Department of Health for Scotland. They take the place of the Countess of Limerick, whose term of office has now expired, and of the late Alderman Ager, of Birmingham. The Earl of Dudley, Sir Arthur Hobhouse, Mrs. E. Gooch, J.P., and Miss Emily Murray have been reappointed to the Committee for a further term of three years.

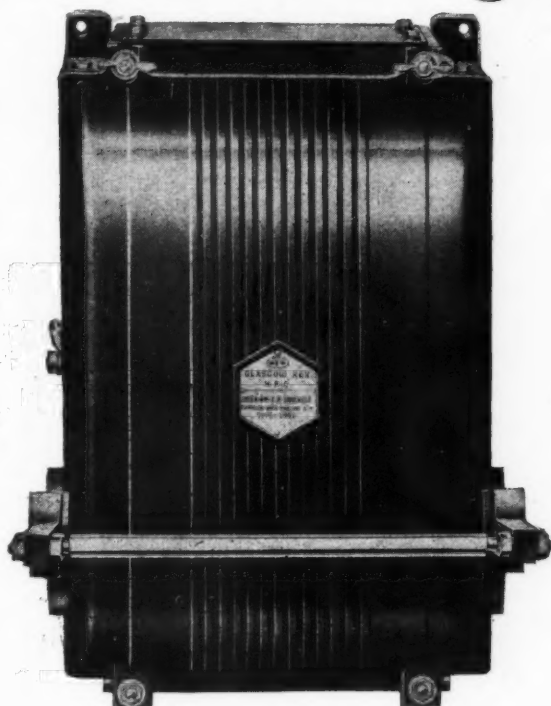
Mr. E. M. Galloway, A.R.I.B.A., Chartered Architect, has opened an office at 10, Portland Street Southampton. Tel: 3245.

The Secretary of State for Scotland announces that Mr. James Dalziel has resigned his appointment as Chairman of the Scottish Special Housing Association and that his resignation has been accepted by the Council of Management of the Association. The Council has appointed Mr. A. G. McBain to be part-time Chairman of the Association in Mr. Dalziel's place, with the concurrence of the Secretary of State. Mr. McBain, who was appointed to be a member of the Council of Management earlier in the year, is the senior partner of Messrs. A. G. McBain & Co., Chartered Accountants, Glasgow. During recent weeks he has devoted a large part of his time to the affairs of the Association and, at the request of the Secretary of State, will continue to do so until the reorganization of the Association has been completed.

The School of Architecture and Building, Robert Gordon's Technical College, Aberdeen, would like to receive trade catalogues, information sheets, and other data.

Messrs. Stanley Hall & Easton and Robertson have taken into partnership Messrs. S. E. T. Cusdin, O.B.E., A.R.I.B.A., A.A.D.P., F. Leslie Preston, A.R.I.B.A., A.A.D.P., and R. Maynard Smith, A.R.I.B.A., A.A.D.P. The firm will be known as Easton & Robertson, and will continue to practise at 54, Bedford Square, W.C.1.

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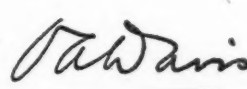
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	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
Portland cement .. ..	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10	+ 56.10
2-in. Unscreened ballast ..	+117.58	+117.58	+117.58	+117.58	+117.58	+117.58	+126.09	+126.09	+126.09	+143.48
Fletton bricks (at station)	+ 36.22	+ 36.22	+ 36.22	+ 36.22	+ 49.19	+ 49.19	+ 51.35	+ 51.35	+ 51.35	+ 51.35
Stoneware drainpipes (British Standard) (2 tons and over) .. ..	+ 43.75	+ 43.75	+ 43.75	+ 72.92	+ 87.50	+109.37	+109.37	+109.37	+109.37	+109.37
Roofing tiles .. ..	+ 86.90	+ 86.90	+ 86.90	+ 86.90	+101.88	+101.88	+101.88	+101.88	+101.88	+101.88
Steel joists (basic sections ex mills) .. ..	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 50.03	+ 57.37	+ 57.37	+ 57.37
Lime greystone .. ..	+ 57.65	+ 57.65	+ 57.65	+ 57.65	+ 57.65	+ 67.06	+ 67.06	+ 70.60	+ 70.60	+ 70.60
Sheet lead .. ..	+ 84.79	+ 84.79	+ 84.79	+113.72	+113.72	+113.72	+197.82	+197.82	+197.82	+202.17
Iron rainwater goods and soil pipes .. ..	+ 70.60	+ 70.60	+ 70.60	+ 70.60	+ 70.60	+ 82.37	+ 82.37	+ 84.72	+ 84.72	+ 84.72
White lead paint .. ..	+ 46.21	+ 46.21	+ 46.21	+ 47.41	+ 47.41	+ 47.41	+ 65.15	+ 65.15	+ 65.15	+ 65.15
RATES OF WAGES (Central London Area)										
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Craftsmen .. ..	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45	+ 35.45
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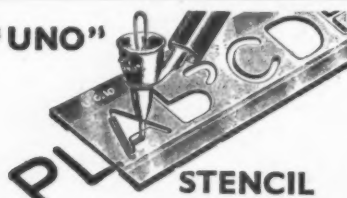
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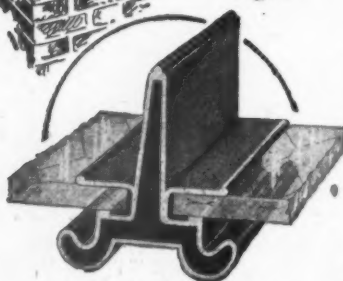
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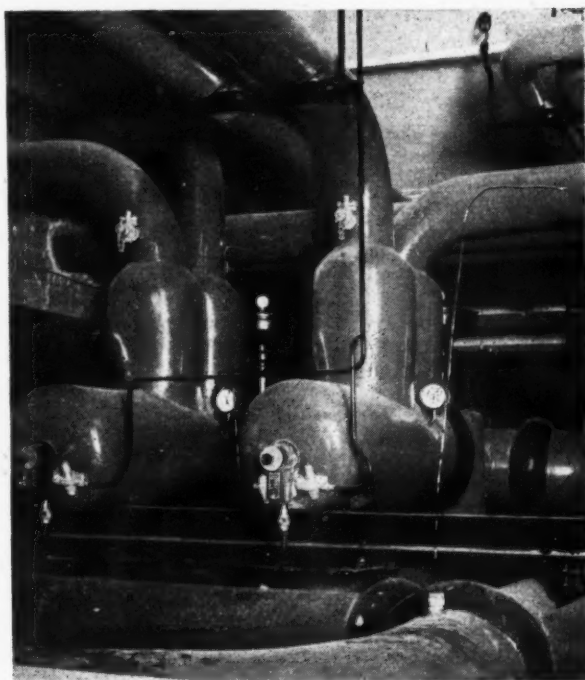


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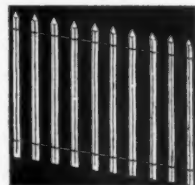
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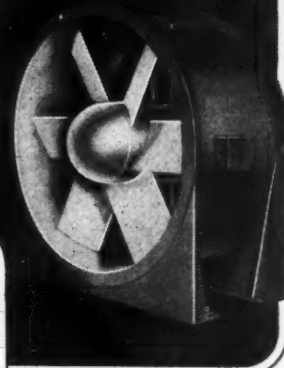


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(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

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

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Borough Engineer.

Borough Engineer's Office, Town Hall, South Shields. November, 1946. 260

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

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

Candidates in respect of (d) should have experience in the preparation of reports and specifications in respect of maintenance and repairs to all classes of buildings, and supervision of the work.

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

Forms of application may be obtained from the undersigned, by whom applications, accompanied by three recent testimonials, should be received not later than Wednesday, 27th November, 1946.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds.

4th November, 1946. 818

### STAFFORDSHIRE COUNTY COUNCIL.

Applications are invited for the following appointments, on the permanent staff of the County Surveyor and County Planning Officer:-

(a) ONE SENIOR TOWN PLANNING ASSISTANT. A.P.T., Grade VI, of National Scale (£535-£600 per annum), plus cost-of-living bonus, at present £59 16s.

(b) ONE TOWN PLANNING ASSISTANT. A.P.T., Grade III, of National Scale (£390-£435 per annum), plus cost-of-living bonus, at present £59 16s.

(c) ONE TOWN PLANNING ASSISTANT. A.P.T., Grade II, of National Scale (£360-£405 per annum), plus cost-of-living bonus, at present £59 16s.

(d) ONE JUNIOR PLANNING ASSISTANT. A.P.T., Grade I, of National Scale (£330-£375 per annum), plus cost-of-living bonus, at present £59 16s.

(e) TWO JUNIOR SURVEYING ASSISTANTS. A.P.T., Grade I (£330-£375 per annum), plus cost-of-living bonus, at present £59 16s.

(f) THREE JUNIOR SURVEYING ASSISTANTS. Miscellaneous Grade (£255-£300 per annum), plus cost-of-living bonus, at present £59 16s.

Applicants for appointment (a) should be incorporated Members of the Town Planning Institute, and have had experience in the preparation and the administration of Town and Country Planning Schemes.

Applicants for appointment (b) should be able to assist in the preparation of Planning proposals, and have had experience of control of interim development.

Applicants for appointments (c) and (d) should have had experience in a Planning office, be good draughtsmen, and have a knowledge of basic surveys, layouts, etc.

Applicants for appointment (f) should be good surveyors and draughtsmen, and have knowledge of the procedure under the Restriction of Ribbon Development Acts, 1935 and 1943.

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

Applications, stating age, qualifications, experience and previous and present appointments, together with copies of three recent testimonials, should reach the undersigned not later than the 10th December, 1946.

Canvassing, directly or indirectly, will be a disqualification, and applicants must state whether they are related to any member of the County Council.

T. H. EVANS,

Clerk of the County Council.

County Buildings, Stafford. 11th November, 1946. 876

### CITY OF PLYMOUTH.

#### CITY ARCHITECT'S DEPARTMENT.

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

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

(a) PRINCIPAL ASSISTANT ARCHITECT (HOUSING). Grade VII £575-£650.

(b) PRINCIPAL ASSISTANT ARCHITECT (EDUCATION). Grade VII, £575-£650.

(c) PRINCIPAL ASSISTANT ARCHITECT (GENERAL). Grade VII, £575-£650.

(d) SENIOR ASSISTANT ARCHITECTS. Grade VI, £535-£600.

(e) ASSISTANT ARCHITECTS. Grade V, £460-£510.

(f) ASSISTANT ARCHITECTS. Grade IV, £420-£465.

(g) ASSISTANT ARCHITECTS. Grade III, £390-£435.

(h) ASSISTANT ARCHITECTS. Grade II, £360-£405.

(i) CHIEF QUANTITY SURVEYOR. Grade VIII, £625-£700.

(j) SENIOR ASSISTANT QUANTITY SURVEYORS. Grade VI, £535-£600.

Applicants for Architectural Appointments should preferably be Associates of the R.I.B.A. Applicants for Quantity Surveying Appointments should preferably be Members of the Royal Institution of Chartered Surveyors (Quantity Section).

Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

Applications, on forms to be obtained from the undersigned, accompanied by copies of not more than three recent testimonials, must be returned to me not later than 7th December, 1946.

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

City Architect.

Weston Lodge, Seymour Road.

Mannamade, Plymouth. 785

### COUNTY BOROUGH OF HUDDERSFIELD.

#### BOROUGH ARCHITECT'S DEPARTMENT.

#### APPOINTMENT OF TECHNICAL STAFF.

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

Houses now nearing completion are being reserved, and will be made available for renting by the successful candidates.

(a) SENIOR ASSISTANT ARCHITECT, at a salary of £535 per annum, rising by two annual increments of £20 and one of £25 to a maximum of £600 per annum, plus cost-of-living war bonus, at present £59 16s. per annum. Applicants should be Associates R.I.B.A., and be capable designers, able to take charge of contracts, and should have had considerable experience in Housing and General Architectural Work of a Local Authority.

(b) ASSISTANT ARCHITECT, at a salary of £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should be Associates R.I.B.A., with experience in Housing and the General Architectural Work of a Local Authority.

(c) ARCHITECTURAL ASSISTANT, at a salary of £360 per annum, rising by three annual increments of £15 to a maximum of £405 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should be experienced in the preparation of working drawings and details, surveying and levelling.

(d) ASSISTANT QUANTITY SURVEYOR, at a salary of £390 per annum, rising by three annual increments of £15 to a maximum of £435 per annum, plus cost-of-living war bonus, at present £59 16s. Applicants should have experience in the preparation of Bills of Quantities, Specifications and Accounts, and previous municipal experience will be an advantage.

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

Applications, stating clearly which appointment is applied for, and giving full details of age, qualifications, experience, and earliest date on which applicants could take up duty, together with copies of not more than three recent testimonials, should reach the Borough Architect, High Street Buildings, Huddersfield, not later than Friday, 29th November, 1946.

Applicants in H.M. Forces may name persons to whom reference may be made in lieu of submitting testimonials.

HARRY BANN,

Town Clerk. 822

Town Hall, Huddersfield.

## CITY OF MANCHESTER.

## APPOINTMENT OF DEPUTY CITY ARCHITECT.

Applications are invited from persons, who have had a thorough training in architectural design and construction, preferably at a School of Architecture, and who should be Fellows or Associates of the Royal Institute of British Architects and Associate Members of the Town Planning Institute, for the position of Deputy City Architect, at a salary of £1,050, rising by biennial increments of £100 to £1,250 per annum, plus cost-of-living bonus, at present £50 per annum.

Particulars as to duties, terms, and conditions of the appointment and forms of application can be obtained from the undersigned.

Applications, endorsed "Deputy City Architect," are to be delivered not later than the 2nd December, 1946.

Candidates serving in H.M. Forces abroad need not complete the official form of application, but may submit direct applications within the date specified, giving particulars of age, education, qualifications, and experience, and three names as references. The number of the applicant's release group and probable date of release should also be stated.

Canvassing in any form, oral or written, direct or indirect, will be regarded as a disqualification, and applications and testimonials must be sent to the Town Clerk only and not to members of the Council.

PHILIP B. DINGLE,  
Town Clerk.  
835

## COUNTY BOROUGH OF NEWPORT, MON.

## BOROUGH ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF THREE CLERKS OF WORKS, ONE ON PERMANENT STAFF AND TWO ON TEMPORARY STAFF.

Applications are invited for the posts as above to supervise Contracts in connection with erection of houses, and various Maintenance works.

The salaries for each position will be in accordance with Grade V, A.P. & T. Division of the National Scheme for Local Government Officers, £460 to £510 per annum, plus current cost-of-living bonus, at present £59 16s.

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

In accordance with the Town Council's resolution, the successful candidates (if married and residing outside Newport) will be offered if required the tenancy of a temporary bungalow in the Borough for the duration of service with the Newport Corporation.

Applications, accompanied by two recent testimonials, must reach me not later than Saturday, the 30th November, 1946.

JOHNSON BLACKETT, F.R.I.B.A.,  
Borough Architect.  
Town Hall, Newport, Mon.  
7th November, 1946. 858

## BOROUGH OF SOUTHGATE.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the Established Staff of the Borough Engineer and Surveyor's Department, on a grade and salary of the A.P.T. division of the National Joint Council Scales, to be settled in accordance with the age, qualifications, and experience of the successful candidate.

Previous Municipal experience, particularly in housing, will be an advantage.

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

Candidates who to their knowledge are related to a member or Senior Officer of the Council must disclose the relationship in their applications. Failure to do so will disqualify or render the candidates appointed liable to dismissal without notice.

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

Applications, stating age, examination qualifications, present and past appointments, with dates and salaries and particulars of experience, accompanied by copies of three recent testimonials, and endorsed on the envelope "Architectural Assistant," must reach Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, N.15, by not later than Wednesday, 27th November, 1946.

GORDON H. TAYLOR,  
Town Clerk.  
Southgate Town Hall, Palmers  
Green N.15. 869

## COUNTY OF MONMOUTH.

## EAST MONMOUTHSHIRE AND WEST MONMOUTHSHIRE JOINT PLANNING COMMITTEE.

Applications are invited for the following appointments, under the above Joint Planning Committee:—

(a) TWO CHIEF PLANNING ASSISTANTS. Salary £575, rising by annual increments of £25 to £650 per annum (A.P.T., VII).

(b) FIVE GRADE III PLANNING ASSISTANTS. Salary £390, rising by annual increments of £15 to £435 per annum (A.P.T., III).

(c) THREE JUNIOR PLANNING ASSISTANTS (GRADE I). Salary £330, rising by annual increments of £15 to £375 per annum (A.P.T., I).

(d) THREE DRAUGHTSMEN or DRAUGHTSWOMEN. Salary according to age—£65 at 16 years of age, rising by annual increments to £240 at 30 years of age for females and £300 for men. (General Scale.)

In addition to the salaries stated for appointments (a), (b) and (c) above, a cost-of-living bonus (at present £59 16s. per annum) is paid by the Joint Committee. In the case of appointments (d) a sliding scale war bonus at present from £20 3s. to £48 6s. per annum, payable, dependent on the age of the appointed persons.

Applicants for appointments (a) should have had extensive practical experience in the preparation of Planning Schemes for Urban and Rural Areas, and must be Members of the Town Planning Institute. An additional qualification in Architecture, Surveying or Engineering will be an advantage.

Applicants for appointments (b) should have had a good practical experience in the preparation of Planning Schemes for Urban and Rural Areas, and should be suitably qualified. Preference will be given to applicants who have secured the Intermediate Examination of the Town Planning Institute or the Royal Institute of British Architects, or the Institution of Municipal and County Engineers.

Applicants for appointments (c) should be neat and efficient draughtsmen, and have a knowledge of surveying and levelling and ordnance survey revision, and preferably should have experience in a Planning Department. Any technical qualifications will be an additional recommendation.

Applicants for appointments (d) should be neat and expeditious draughtswomen or draughtsmen, tracers and colourists, with experience of work on 1/2,500 and 6 in. to the mile ordnance maps.

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

Applications, stating age, qualifications, training and experience, and giving particulars of past and present appointments, accompanied by copies of two recent testimonials, or in the case of H.M. Forces, the names of two referees, and endorsed Chief Planning Assistants (a), Planning Assistant (b) or (c), or Draughtswomen or Draughtsmen (d), must be delivered to the County Planning Officer, County Hall, Newport, Mon., not later than 2nd December, 1946.

VERNON LAWRENCE,  
Clerk of the Joint Committees.  
County Hall, Newport, Mon.  
5th November, 1946. 840

## BOROUGH OF BECKENHAM.

## APPOINTMENT OF JUNIOR PLANNING ASSISTANT.

Applications are invited for the post of Junior Planning Assistant, on the Council's regular establishment, at a salary in accordance with Grade A.P.T.1 of the National Scale, viz., £330 per annum, rising to £375 per annum, plus London "weighting" of £20 and cost-of-living bonus, at present 23s. per week.

Applicants should be neat and expeditious draughtsmen, and have passed the Intermediate Examination of the Town Planning Institute, or hold equivalent qualifications, and should have a good experience of Local Authority Planning Schemes and Interim Development Control procedure.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side. The selected candidate will be required to pass a medical examination by the Council's Medical Officer of Health, or an individual medical referee appointed by the Council.

Applications, stating age, qualifications, experience, present appointment and salary, previous appointments, etc., endorsed "Junior Planning Assistant," and accompanied by copies of three recent testimonials, should be addressed and delivered to the Borough Engineer, at the Town Hall, Beckenham, not later than 12 noon on Monday, 2nd December, 1946.

Canvassing in any form will disqualify.  
C. ERIC STADDON,  
Town Clerk.  
Town Hall, Beckenham.  
2nd November, 1946. 815

## SALOP COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECT. Salary grade £460, rising to £600 per annum.

(b) ASSISTANT ARCHITECT. Salary grade £420, rising to £465 per annum.

(c) JUNIOR ASSISTANT ARCHITECT. Salary grade £330, rising to £375 per annum.

Candidates for appointments (a) and (b) must be Registered Architects, preferably Associates of the R.I.B.A., and for appointment (c) should be Registered Architects, and preference will be given to candidates who have reached the Intermediate stage of the R.I.B.A. The successful applicant for appointment (a) will be required to act as a Section Head, and some administrative ability will be an advantage.

A cost-of-living bonus, at present £59 16s. per annum, will be payable in addition to the salary scales above.

Each appointment will be subject for its termination to one month's notice in writing on either side; to the terms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937. Successful applicants will be required to pass a medical examination.

Applications, accompanied by copies of not more than three recent testimonials, should state age, qualifications, previous experience, and the present appointment of the applicant, and must be received by Mr. A. G. Chant, F.R.I.B.A., County Architect, 5, Belmont, Shrewsbury, not later than Monday, 2nd December, 1946.

G. C. GODBER,  
Clerk of the Council.  
Shirehall, Shrewsbury.  
November, 1946. 838

## CITY OF LIVERPOOL.

## ARCHITECTURAL AND HOUSING DEPARTMENT.

The Council of the City of Liverpool invite applications from members of the Royal Institute of British Architects for appointment to the post of CITY ARCHITECT, in the Department of the City Architect and Director of Housing, at the salary of £900 per annum, plus war bonus (at present £59 19s. 3d. per annum).

The duties of the appointment involve the supervision of a staff of architects employed in the general architectural work of the Corporation, i.e., schools, hospitals, and other public buildings, etc., but not Housing, which is carried on by a separate section of the architectural staff under a Chief Architect at the same salary as the post advertised.

Applicants, whose age must not exceed 45 years, must have had professional experience, preferably in local or central government service.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the Standing Orders of the City Council, which include requirements to pass a medical examination, to devote whole time to the duties of the appointment, and to reside within the City.

The appointment will be determinable by three calendar months' notice on either side.

Applications, on forms to be obtained from the City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2, accompanied by copies of three recent testimonials, must be addressed to the City Architect and Director of Housing (endorsed "Chief Architect"), and should be received on or before the 2nd December, 1946.

Candidates serving in H.M. Forces abroad need not complete the official form of application, but may submit direct applications on or before the date specified, giving particulars of age, education, qualifications and experience, and three names as references. The number of the applicant's release group and probable date of release should also be stated.

Canvassing of members of the City Council, either directly or indirectly, will be a disqualification.

W. H. BAINES,  
Town Clerk.  
Municipal Buildings, Liverpool, 2.  
October, 1946. 800

## THE UNIVERSITY OF LIVERPOOL.

## LIVERPOOL SCHOOL OF ARCHITECTURE.

Applications are invited for two full-time posts of LECTURER and STUDIO INSTRUCTOR, in the School of Architecture, at a salary between £450-£600 per annum, according to qualifications and experience, together with child allowances.

Applications, accompanied, if possible, by drawings or photographs of work, two testimonials, and the names of two referees, should be received not later than 31st December, 1946, by the undersigned, from whom further particulars may be obtained.

STANLEY DUMBELL,  
Registrar.  
November, 1946. 859

## EDINBURGH CORPORATION.

## APPOINTMENT OF DEPUTE CITY ARCHITECT.

Applications are invited for the appointment of Depute City Architect.

The appointment will be a whole time one, and will be subject to the Corporation's Superannuation Scheme.

Applicants must not be over the age of 46 years as 1st January, 1947, and must be Registered Architects; and Associate Members of the Royal Institute of British Architects or holders of an equivalent degree.

The salary scale is £800, rising to £1,100 per annum by annual increments of £50, plus war bonus (at present £92 to £120, according to placing on scale).

Further particulars and conditions may be obtained from the undersigned, with whom applications must be lodged not later than Saturday, 30th November, 1946.

A. G. FORGIE, A.R.I.B.A.,  
Dip.Arch.(Edin.),  
City Architect.

City Chambers, Edinburgh, 1.  
November, 1946. 817

## METROPOLITAN BOROUGH OF POPLAR.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT (GRADE IV).

Applications are invited from duly qualified Architects for the above permanent staff appointment, in the Borough Engineer and Surveyor's Department of the Council.

The salary attaching to the post will be A.P.T., Grade IV of the National Scales of Salaries, as applicable to the London area, viz., £440 per annum, by three annual increments of £15 to a maximum of £485 per annum, plus cost-of-living bonus, which is at present £59 16s. per annum.

Candidates must have had extensive experience in the planning and design of housing schemes, preferably under a local authority.

The appointment will be subject to the provisions of the Poplar Borough Council Superannuation Acts, 1911 to 1937, and the successful candidate will be required to pass a medical examination. Termination of the appointment will be subject to one month's notice on either side.

Applications, endorsed "Architectural Assistant, Grade IV," stating age, qualifications and experience, present and past employment, and accompanied by copies of three recent testimonials must be delivered to the undersigned not later than Friday, 29th November, 1946.

Canvassing members or officers of the Council in any form will disqualify.

S. A. HAMILTON,  
Town Clerk.

Poplar Town Hall, Bow Road, E.3.  
29th October, 1946. 828

## DURHAM COUNTY COUNCIL.

## COUNTY ENGINEER, SURVEYOR AND ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF ADDITIONAL STAFF.

Applications are invited for the following appointments, which come under the National Joint Council's scale and conditions:—

FOUR ARCHITECTURAL ASSISTANTS.

A.P.T. Grade IV. £420-£465-£465.

TWO JUNIOR ARCHITECTURAL ASSISTANTS.

A.P.T. Grade I. £330-£375-£375.

ONE JUNIOR QUANTITY SURVEYOR.

A.P.T. Grade I. £330-£375-£375.

ONE JUNIOR CLERK OF WORKS. Misc.

Div. Grade I. £255-£315-£300.

All the above salaries are subject to the addition of cost-of-living bonus, at present amounting to £59 16s. 3d. p.a.

The persons appointed will be required to pass a medical examination, and the appointments are subject to the Local Government Superannuation Act, 1937, and to the current regulations of the County Council relative to the payment of wages or salary in the case of sickness.

Canvassing will disqualify, and a candidate who is related to a member of, or a senior official of the Council, must disclose this fact in his application.

Applications, giving particulars of age, experience and qualifications, previous and present appointments, etc., and enclosing copies of not more than three recent testimonials, should be forwarded to the undersigned not later than first post Monday, 25th November, next.

Envelopes should be marked appropriately:—  
Architectural Assistants.  
Junior Quantity Surveyors.  
Junior Clerk of Works.

WILLIAM J. MERRETT,  
County Engineer, Surveyor and Architect.

County Surveyor's Office, 43, Old  
Elvet, Durham.  
8th November, 1946. 873

## PEMBROKESHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments:—

(a) TWO SENIOR ASSISTANT ARCHITECTS. Qualified members of the R.I.B.A. by examination, and having experience of contemporary architectural and/or structural design. Salary scale, A.P. & T., Div. VI, £535-£600, plus bonus (at present £59 16s.), according to qualifications and experience.

(b) TWO ASSISTANT ARCHITECTS. Preferably members of the R.I.B.A. by examination, and/or holding equivalent academic qualifications, and having experience of contemporary architectural and/or structural design. Salary scale, A.P. & T., Div. Grade V, £460-£510, plus bonus as above, according to qualifications and experience.

(c) TWO ARCHITECTURAL ASSISTANTS. Should have passed the Inter. exam. of the R.I.B.A. and have had good experience in general architectural work, including schemes and the preparation of working drawings. Salary scale, A.P. & T., Div. Grade III, £390-£435, plus bonus as above, according to qualifications and experience.

(d) ONE ENGINEERING ASSISTANT. Preferably holding appropriate qualification, and should have had experience in the design and supervision of heating, hot water, and ventilating systems, together with technical knowledge and practical experience in the design of electrical installations for small schemes, and be able to prepare plans, specifications, and carry out supervision of contracts in connection with same. Salary scale, A.P. & T., Div. Grade V, £460-£510 (plus bonus as above), according to qualifications and experience.

(e) ONE CHIEF QUANTITY SURVEYOR. Qualified as a member of the Surveyors' Institute by examination, and possessing suitable experience in the practice of quantity surveying, and preferably under a Local Authority. The duties will entail taking charge of a Quantity Surveyor's Section, under the County Architect. Salary scale, A.P. & T., Div. Grade VII, £575-£650, plus bonus as above, according to qualifications and experience.

(f) ONE SENIOR QUANTITY SURVEYOR. Should be P.A.S.I. (Qts. Section), and have had considerable experience in the preparation of quantities, specifications, site measuring, estimates, and final account. Salary scale, A.P. & T., Div. Grade VI, £535-£600 (plus bonus as above), according to qualifications and experience.

(g) ASSISTANT LAND AND BUILDING SURVEYOR. Preference will be given to qualified surveyors, capable of carrying out surveys of lands and building, and preparation of necessary reports, plans, valuations, etc. Salary scale, Grade IV, £460-£510 (plus bonus as above), according to qualifications and experience.

(h) CHIEF CLERK. Applicants must have a specialized knowledge of Building Work and Architectural Procedure, and preferably have had experience in a County Architect's Office. The duties will entail taking charge of the Clerical Section under the County Architect. Salary scale, A.P. & T., Div. Grade V, £460-£510 (plus bonus as above), according to qualifications and experience.

All the above appointments will be superannuable, and subject to medical examination. Canvassing will be a disqualification. Applications from persons serving in H.M. Forces should state their position regarding their release. Ex-Service candidates, with experience prior to their war service, will be specially considered. Details of these appointments and forms of application may be obtained from Walter Barrett, M.B.E., A.R.I.B.A., County Architect, County Offices, Haverfordwest, to whom applications should be delivered not later than 14th December, 1946.

W. E. BUFTON,  
Clerk of the County Council.

County Offices, Haverfordwest.  
14th November, 1946. 897

## COUNTY BOROUGH OF CROYDON.

## BOROUGH VALUER'S DEPARTMENT.

Applications are invited for the appointment of TEMPORARY ASSISTANTS, in connection with Civil Building Licences; salary will be up to 29 s. a week inclusive, according to experience and qualifications.

Applicants must be fully conversant with the licensing regulations and directives, and have wide experience of specifications, estimates, and the various building trades.

Application forms may be obtained from the Borough Valuer, 71, Park Lane, Croydon, to whom they must be returned as soon as possible. Canvassing will disqualify.

E. TABERNER,  
Town Clerk.

Town Hall, Croydon.  
November, 1946. 899

## THE UNIVERSITY OF SHEFFIELD.

Applications are invited for the post of ASSISTANT LECTURER IN ARCHITECTURE. Salary £450 per annum in the first year, rising by £25 to £500, with superannuation provision under the Federated Superannuation Scheme for Universities, and family allowance.

Candidates should be graduates or diplomates of one of the Schools or Departments of Architecture recognized by the R.I.B.A.

The successful candidate will be expected to enter upon his duties as soon as possible.

Applications (three copies), with the names and addresses of three references and, if possible, copies of two testimonials, should reach the undersigned (from whom further particulars may be obtained) as early as possible, but not later than 14th December, 1946.

A. W. CHAPMAN,  
Registrar.

## BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Temporary Architectural Assistant, Grade I Technical, £330-£375 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should be good draughtsmen, with a sound knowledge of the preparation of drawings, details and specifications for modern housing and other architectural work, and preference will be given to those with experience in Local Authority work, and who have passed the Intermediate examination of the R.I.B.A.

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

Applications, stating age, qualifications and experience, together with the names and addresses of two persons to whom reference can be made, to be forwarded to the Borough Surveyor, 6, Pulteney Buildings, Weymouth, not later than 2nd December, 1946.

P. SMALLMAN,  
Town Clerk.

Municipal Offices, Weymouth.  
12th November, 1946. 897

## COUNTY OF WARWICK.

## ARCHITECT'S DEPARTMENT.

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

(a) ASSISTANT ARCHITECT. Commencing salary £480, rising by one annual increment of £25 and one of £20 to £525 per annum.

(b) ASSISTANT ARCHITECT. Commencing salary £420 per annum, rising by two annual increments of £20 to £460.

(c) JUNIOR ASSISTANT ARCHITECT. Commencing salary £365, rising by annual increments of £15 to £410 per annum.

(d) JUNIOR ARCHITECTURAL ASSISTANT. Commencing salary £315, rising by three annual increments of £15 to £360 per annum.

(e) SURVEYING ASSISTANT. Commencing salary £420, rising by two annual increments of £20 to £460 per annum.

The above scales are exclusive of cost-of-living bonus, which is at present £59 16s. per annum.

Applicants for posts (a), (b) and (c) should be Members of the Royal Institute of British Architects, and for post (e) Members of the Royal Institution of Chartered Surveyors.

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

Application forms can be obtained from C. H. Elkins, County Architect, Shire Hall, Warwick, on or before the 27th November, 1946.

L. EDGAR STEPHENS,  
Clerk of the Council.

Shire Hall, Warwick. 890

## COUNTY BOROUGH OF NORTHAMPTON.

## BOROUGH ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF CHIEF QUANTITY SURVEYOR.

Applications are invited for the appointment of Chief Quantity Surveyor, in the above Department, in the Salary Scale, A.P.T. Division, Grade VII (£575×£25 to £650 p.a., plus bonus).

Applicants should be Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and should possess the qualifications and experience necessary to enable them to take charge of the whole of the Quantity Surveying work of the Department.

Further particulars of the appointment and form of application may be obtained from the undersigned, to whom applications must be delivered not later than Tuesday, 10th December, 1946.

C. E. VIVIAN ROWE,  
Town Clerk.

Guildhall, Northampton. 892

## DERBYSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff.  
Conditions of service and salaries are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

- (a) ASSISTANT ARCHITECT (Grade V).  
(b) ASSISTANT ARCHITECTS (Grade IV).  
Applicants should have had experience in the design and construction of modern buildings, and for appointment (a) must be fully qualified.  
(c) ARCHITECTURAL ASSISTANTS (Grades III, II and I).

Applicants to have had good general architectural experience, and to be first-class draughtsmen.  
Knowledge of Surveying and Levelling will be considered as a qualification for the appointments.

- (d) ASSISTANT QUANTITY SURVEYORS (Grade I).  
Applicants should have had experience in assisting with taking off, measuring up, and preparing final accounts.

In addition to the salaries payable under the respective grades, a cost-of-living bonus, at present £59 16s. per annum, is payable in each case.

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

Applications, stating age, present position and salary, qualifications and previous experience, accompanied by copies of three recent testimonials, should reach the undersigned not later than 26th November, 1946.

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

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

County Offices, Derby.  
15th November, 1946. 877

## BIRMINGHAM CITY TRANSPORT.

## GENERAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a General Architectural Assistant, in the Civil Engineer's section of the Transport Department.

The salary will be in accordance with Grade IV of the A.P.T. Division of the National Joint Council Scheme (£420-£465 per annum), plus war bonus, amounting at the present time to £56 1s. per annum.

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

Applicants must have experience in design, construction and maintenance of Buildings, and the preparation of estimates, specifications and quantities.

Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, together with copies of two recent testimonials, must reach the undersigned not later than the 27th November, 1946.

A. C. BAKER, ESQ.,  
General Manager.

The Council House, Birmingham, 3. 878

## NEW SOUTH WALES GOVERNMENT OFFICES, 125, STRAND, LONDON, W.C.2.

Applications are invited for the position of LECTURER-IN-CHARGE, Architecture Department, Sydney Technical College, Sydney, New South Wales.

Salary £950 (Australian), plus an allowance of £300 (Australian) per annum, with the right to undertake approved consultative private practice, but subject to deductions under the State Superannuation Act.

The actual cost of transport of selected applicant (and family) to Sydney will be allowed. Applicants, besides having a Diploma or Degree in Architecture of a recognized University or Technical College, should give evidence of professional experience in Architecture, evidence of lecturing, administrative, organizing ability, and a knowledge of Town Planning. The appointee will also be required to lecture to University Degree standard in the Institute of Technology if and when such Institute may be established. The successful candidates may be required to furnish satisfactory evidence as to his physical fitness.

Six copies of applications, stating age, educational career, experience in this country and abroad, also other qualifications (together with six copies of any testimonials or other supporting documents), must reach the undersigned not later than the 30th November, 1946.

A. W. SUTTON,  
Official Secretary.

875

## CITY OF PETERBOROUGH.

## APPOINTMENT OF ARCHITECTURAL ASSISTANT (Grade III).

Applications are invited for the appointment of Architectural Assistant, in the City Engineer and Surveyor's Department, at a salary in accordance with Grade III, A.P.T., £390, rising by annual increments to £435 per annum, plus bonus of £60 per annum.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under instructions.

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

Applicants, stating age, qualifications and experience, accompanied by copies of at least two recent testimonials, endorsed "Architectural Assistant," must be delivered to the undersigned not later than Monday, 9th December, 1946.

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

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.

11th November, 1946. 893

## EASINGTON RURAL DISTRICT COUNCIL.

## ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of—

FIRST ARCHITECTURAL ASSISTANT. Grade III, A.P.T. Salary £390-£435 per annum.

Applicants must have served their articles as an Architect, or have had experience as an Architectural Assistant on the design and layout of housing schemes and buildings.

The appointment is subject to the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination. Service may be terminated by one month's notice on either side.

Applications, stating age, details of qualifications and experience, on a form obtainable from the undersigned, together with copies of two recent testimonials, are to be delivered to the undersigned not later than 7th December, 1946, in a sealed envelope, endorsed "Architectural Assistant."

Canvassing, directly or indirectly, will disqualify.

J. W. GRAY,

Clerk of the Council.

Council Offices, Easington, Co. Durham.

11th November, 1946. 883

## HORNCHURCH URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT (permanent), Grade II, at a commencing salary of £360, rising by annual increments of £15 to £405 per annum, plus cost-of-living bonus (at present amounting to £59 16s. per annum).

Preference will be given to candidates who are registered Architects, or members of the Royal Institute of British Architects, and who have some knowledge and experience of the preparation of bills of quantities.

The appointment is subject to the Local Government Superannuation Act, 1937, to the appointee successfully passing a medical examination, and to termination, in writing, by one month's notice on either side.

Applications, stating age, qualifications, full particulars of training and experience, accompanied by copies of three recent testimonials, endorsed "Architectural Assistant," must reach the undersigned not later than Friday, the 13th December, 1946.

P. L. COX,

Clerk of the Council.

Council Offices, Billet Lane, Hornchurch.

11th November, 1946. 894

## BRIERFIELD URBAN DISTRICT COUNCIL.

Appointment of—

(a) ARCHITECTURAL ASSISTANT.  
(b) CLERK OF WORKS (HOUSING SCHEMES).

The above Council is prepared to receive applications for the position of Temporary Architectural Assistant, in the Surveyor's Department, at a salary of £360-£415-£405 per annum, plus war bonus, £59 16s. Preference will be given to candidates holding a diploma in architecture.

Applications are also invited for the position of Full-time Clerk of Works, at a wage of £8 per week.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, enclosed in sealed envelope endorsed (a) "Architectural Assistant," or (b) "Clerk of Works," must be delivered to the undersigned not later than first post on Wednesday, 4th December, 1946.

H. L. SMITH,

Clerk to the Council.

Town Hall, Brierfield, Lancs.

9th November, 1946. 872

## BOROUGH OF MALDEN AND COOMBE.

## BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a PERMANENT ARCHITECTURAL ASSISTANT (Grade II), £380-£425 per annum. The salary is in accordance with and subject to the Scheme of Conditions and Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should have good general architectural experience, be good draughtsmen, and be engaged on a course of training leading to a recognized architectural qualification.

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

Applications, stating age, qualifications, full details of previous experience, with salaries and designations, together with copies of two recent testimonials, should be sent to the undersigned not later than 16th December, 1946.

HAROLD E. BARRETT,

Town Clerk.

Municipal Offices, New Malden, Surrey. 891

## CITY OF PETERBOROUGH.

## APPOINTMENT OF QUANTITY SURVEYOR (GRADE V).

Applications are invited for the appointment of Quantity Surveyor, in the City Engineer and Surveyor's Department, at a salary in accordance with Grade V, A.P.T., £460, rising by annual increments of £50 per annum, plus bonus of £60 per annum.

The work will be mainly in connection with the erection of new schools, and applicants should be experienced in taking-off and preparing Bills of Quantities.

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

Applicants, stating age, qualifications and experience, accompanied by copies of at least two recent testimonials, endorsed "Quantity Surveyor," must be delivered to the undersigned not later than Monday, 9th December, 1946.

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

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.

11th November, 1946. 892

## MONMOUTHSHIRE COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

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

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

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

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

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

Forms of application and conditions of service can be obtained from the undersigned. Applications, stating age, experience and qualifications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than first post on Saturday, 30th November, 1946.

VERNON LAWRENCE,

Clerk of the Council.

County Hall, Newport, Mon. 884

**BUCKS COUNTY EDUCATION COMMITTEE.**

Applications are invited from qualified teachers for appointment as HEADMASTER, at the Secondary Technical School for Building at Chesham. The school, which it is hoped will be opened in January, 1947, will have an entry of 25 pupils each year and a three year school life. Salary will be paid in accordance with Grade II for Qualified Head Teachers (Burnham Scale for Primary and Secondary Schools).

Application forms may be obtained from the undersigned, to whom they should be returned, completed, as early as possible.

D. E. COOKE,  
Chief Education Officer.

**PONTYPOOL URBAN DISTRICT COUNCIL.  
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Assistant, in the Council's Architectural Department, at a salary of £450, rising by one annual increment of £15 to £465, plus bonus.

The successful applicant will be required to pass a medical examination, the appointment being subject to the Local Government Superannuation Act, and terminable by one month's notice on either side.

Preference will be given to Registered Architects, who have qualified by examination and who have knowledge and experience of Housing and other Architectural work in the service of a local authority.

Applications, giving details of age, training, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed "Architectural Assistant," must be sent to Mr. P. E. Walker, A.R.I.B.A., P.A.S.I., Architect to the Council, Pontymoor, Pontypool, by 7th December, 1946.

H. COOK,  
Clerk to the Council.

**CITY OF COVENTRY.**

**CITY ARCHITECTURAL DEPARTMENT.**

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

**THREE ASSISTANT ARCHITECTS.** Salary in accordance with Grade A.P.T. IV (commencing at £420 per annum and rising by three increments of £15 per annum to £465 per annum).

**ONE ASSISTANT ARCHITECT.** Salary in accordance with Grade A.P.T. II (commencing at £360 per annum and rising by annual increments of £15 per annum to £405 per annum).

**ONE ASSISTANT ARCHITECT.** Salary in accordance with Grade A.P.T. I (commencing at £330 per annum, and rising by three increments of £15 per annum to £375 per annum).

**ONE JUNIOR ARCHITECTURAL ASSISTANT.** Salary in accordance with the General Grade, which is an "age" grade, e.g., salary at 21 years £160 per annum; maximum £300 per annum at age 30.

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

**TWO SENIOR QUANTITY SURVEYORS.** Salary in accordance with Grade A.P.T. IV (commencing at £420 per annum and rising by three increments of £15 per annum to £465 per annum).

**ONE QUANTITY SURVEYOR.** Salary in accordance with Grade A.P.T. III (commencing at £390 per annum, and rising by three increments of £15 per annum to £435 per annum).

**ONE ASSISTANT QUANTITY SURVEYOR.** Salary in accordance with Grade A.P.T. I (commencing at £330 per annum, and rising by three increments of £15 per annum to £375 per annum).

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

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Acts, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's Medical Referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pensions Fund.

Applications must be made on the forms obtainable from the undersigned, and should be returned complete, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Wednesday, the 18th December, 1946. Canvassing, directly or indirectly, will be a disqualification.

D. E. B. GIBSON,  
City Architect.  
1a, Warwick Row, Coventry.  
21st November, 1946.

**COUNTY BOROUGH OF OLDHAM.**

**APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of a Senior Architectural Assistant in my department.

The salary will be at the rate of £460 per annum, rising to £510 per annum (plus cost-of-living bonus, at present £59 16s. per annum), being Grade V of the National Scale of Salaries.

Applicants must possess a recognized Architectural qualification, and experience in a Municipal Office will be an advantage.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Conditions relating to the appointment can be obtained from the undersigned.

Applications, stating age, qualifications and experience, and copies of three recent testimonials, must reach the undersigned not later than Wednesday, the 4th December, 1946, in envelopes endorsed "Senior Architectural Assistant."

A. L. HOBSON,  
Borough Engineer and Surveyor.  
Municipal Buildings, 75, Union Street,  
Oldham.  
7th November, 1946.

**CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.**

Applications are invited for the appointment of QUALIFIED QUANTITY SURVEYORS, in the City Architect's Department.

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

Applications, stating age, qualifications, experience and salary required, accompanied by copies of three recent testimonials, should be addressed to the undersigned.

R. G. ROBERTS, F.R.I.B.A.,  
City Architect.  
18, Cloth Market, Newcastle-upon-Tyne, 1.  
14th November, 1946.

**Competition**

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

**BOROUGH OF BRIDLINGTON.**

**PROPOSED BESSINGBY HOUSING ESTATE.  
ARCHITECTURAL COMPETITION.**

The Council has decided to hold a Competition for the design of types of Houses to be erected on the proposed Bessingby Housing Estate, containing an area of approximately 85 acres, and invites entries from Architects. First prize, 100 guineas; 2nd prize, 50 guineas, and 3rd prize, 25 guineas.

Particulars and conditions of the competition may be obtained from the Borough Engineer, Town Hall, Bridlington. The closing date for the competition will be notified to each applicant for particulars in due course.

S. BRIGGS,  
Town Clerk.  
Town Hall, Bridlington.  
7th November, 1946.

**Architectural Appointments Vacant**

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

**ARCHITECTURAL DRAUGHTSMAN** required, Maidenhead; capable of working up from sketches, preparing details, surveys, etc. Send details of experience and salary required to Box 673.

**JUNIOR DRAUGHTSMAN** required in Maidenhead Architect's Office. Send particulars of experience and salary required to Box 672.

**EXPERIENCED DRAUGHTSMAN** wanted, with good knowledge of building construction and able to make surveys; salary £425 per annum; country practice. Write Box 783.

**JUNIOR DRAUGHTSMAN (Architectural)** required immediately.—Apply, giving particulars, salary required, etc., to Samuel Jackson & Son, Dean House, 19, Piccadilly, Bradford.

**ESTIMATOR AND QUANTITY SURVEYOR** required urgently by a firm of Builders and Contractors engaged on Large Housing Schemes, Factories, etc.; salary offered up to £450 per annum, according to experience. Apply to L. F. Halton, L.R.I.B.A., Architect to E. O'Sullivan, Ltd., Cray Avenue, 84, Mary Cray, Kent. Telephone: Orpington 3737.

**CAPABLE ASSISTANT** and **JUNIOR ASSISTANT** required at once in the Architect's Dept.; good all-round experience essential; interesting variety of work. Apply, stating full capabilities, experience, and salary, to the Secretary, Barnsley British Co-operative Society, Ltd., Wellington Street, Barnsley, Yorks.

**WANTED.** — **ARCHITECTURAL ASSISTANT.** Apply, stating age, experience, references and salary required, to Imperial Chemical Industries, Ltd., I.C.I. Estates Department, Northwich, Cheshire.

**ARCHITECTURAL ASSISTANT** required by Tottenham and District Gas Company; age 25-40; preference will be given to applicants who have passed the Intermediate examination of the R.I.B.A. or the equivalent; commencing salary approximately £400 per annum, inclusive of war additions; the person appointed will be entitled to the benefit of Co-partnership and the Pension Fund. Apply by letter, giving age and full particulars of experience and qualifications, to PERSONNEL OFFICER, 658, Lordship Lane, Wood Green, N.22.

**ARCHITECTURAL ASSISTANTS** required by the C.W.S. Architects' Dept., London; salary £320-£450 p.a., according to qualifications and experience, plus war bonus, at present £74 p.a.; superannuation scheme. Apply Chief Architect, C.W.S. Ltd., 99, Leman Street, London, E.1.

**ARCHITECT,** Central London, requires Assistant, to take charge of a general practice; capable of carrying out accurate surveys; exempt from military service; shorthand an advantage; state age, experience, and salary required. Box 864.

**DRAUGHTSMAN,** as Assistant to Architectural Department; experienced in Building Construction and control of Building Operations. Apply Austin Motor Co., Ltd., Birmingham.

**LONDON HOSPITAL, WHITECHAPEL,** E.1.—Architect's Assistant required immediately; alteration and maintenance work, and able to write specifications; hospital experience desirable, but not essential; salary £350-£400. Apply, stating age, experience, to the Surveyor.

**COMPETENT ARCHITECTURAL ASSISTANT** required, with good general experience, permanency and prospects to suitable applicant. Reply, giving full details of experience, age, and salary required, to Box 871.

**ARCHITECT'S ASSISTANT** required, preferably with knowledge of Quantities and War Damage Specifications. Write, stating previous experience, and salary required, to A. R. Shepherdson, L.R.I.B.A., Lloyd's Chambers, Cornhill, Ipswich.

**WANTED,** immediately, Architect's Assistant; capable of preparing working drawings, specifications and surveys quickly and accurately; age 35-40. Write, in first instance, giving experience, when free, and salary expected, to Lambert & Oliver, Chartered Architects, Bridport, Dorset.

**TWO TRACERS (Women)** required by Westminster Consultant; previous experience in engineering and/or building drawings desirable. Please state qualifications and type of experience to Box 881.

**ASSISTANT** required for London office; must be a good draughtsman, and have had previous office experience. Please write, stating age, experience, and salary required, Brian O'Rourke, F.R.I.B.A., 133a, Sloane Street, S.W.1.

**ARCHITECT'S ASSISTANT** wanted for design and construction of theatres and general work; must be capable and experienced in design, details and specifications; to work under company's architect in Central London and start immediately; salary according to experience and qualifications, with good prospects for permanent responsible position. Write fully, stating age, experience, and salary required, to Box 888.

**WANTED,** immediately, for Architects' office in West End of London, capable and experienced Architectural Assistants, on housing and general work; interesting and progressive position, with good salary; five-day week. Write fully to Box 899.

**TWO ASSISTANTS** required, in the Architect's and Surveyor's Departments, of well-known Charitable Institution; applicants should have a competent knowledge of general practice. Reply, giving full details and in which of the professions they have most experience, state salary. Box 898.

**WANTED.**—Architect's Assistant, with general experience and knowledge of quantities. Apply, with full particulars of experience, stating age and salary required, to James R. Ashworth, L.R.I.B.A., 11, Cannon Street, Accrington, Lancs.

**JUNIOR ASSISTANT,** minimum 2 years' training in Building Construction, required for firm of Architectural and Industrial Designers; progressive post. Telephone: Sloane 6127. Convel Designers, Ltd.

**Architectural Appointments Wanted**

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

**ARCHITECT'S ASSISTANT** requires part-time work in own home. Box 164.

**A.R.I.B.A., A.M.T.P.I.**, 20 years' varied experience, seeks appointment requiring initiative and ability; accustomed to control of work from start to finish. Box 165.

**JUNIOR ARCHITECTURAL ASSISTANT** requires progressive post; L.C.C. and other experience in draughtsmanship, plotting and measuring buildings; experience mostly with schools and houses; National Certificate Standard in Building Construction. F. N., 41, Matheson Road, W.14. 150

**ARCHITECTURAL ASSISTANT** offers part-time assistance, evening and week-end; all types of work, sketches, working drawings, water colour, specifications. Box 172.

**L.R.I.B.A.**, aged 34, with own connection, seeks position in London area, with view to partnership; experienced in all branches from sketch plans to settlement of accounts; surveying, levelling; salary £650 p.a. Box 173.

**ARCHITECTURAL ASSISTANT** (Swiss), 4½ years' training and experience in Switzerland and England, seeks position in progressive Architect's Office; preferably design work. Box 174.

**ARCHITECT AND SURVEYOR** requires part-time work; London area; surveys, dilapidations, war damage claims and schedules; would work in office or at home. E. G. L., 130, Brondesbury Villas, N.W.6. 175

**YOUNG ARCHITECT**, now preparing for A.M.T.P.I., seeks position; preferably town and country planning. Box 176.

**YOUNG MAN** (21) desires position as a Junior Architectural Assistant or Architectural Draughtsman; in or around Leeds; 2 years' experience architect's office. Box 177.

**ARCHITECTURAL ASSISTANT**, probationer R.I.B.A., sound knowledge of building construction, experienced in site work, levelling, chain surveys, specification writing, etc., desires post in Architect's or Building Contractor's office in Sussex. Box 178.

**STUDENT R.I.B.A.** (21) requires good post in Croydon area whilst completing Thesis; matric. and 4 years' full-time training; some experience; very good draughtsman. Box 179.

**Other Appointments Wanted**

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

**LAND SURVEYS** for Housing Schemes and other projects carried out by expert, with own car and equipment. Box 829.

**COMPETENT DRAUGHTSMAN**, inviolated Royal Navy; can undertake structural steel-work detailing and tracing of all descriptions at home address. Box 868.

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

**For Sale**

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

**DRAWING SET**, in case, by Richter & Co.; as new; 15 types of instruments, with necessary adjusting pieces; £25. Hornby, Jed Bungalow, Jackson Avenue, Ponteland, Newcastle-on-Tyne. 865

**Miscellaneous**

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

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

**F. J. BAYNES, LTD.**, established over 100 years. Heating, Ventilating and Sanitary Engineers. 99/107, St. Paul's Road, N.I. Canonbury 2061-3.

**INVESTMENT TRUST** wishes to purchase PROPERTY LET to good tenants. Details of Houses, Flats or Shops to John Swait & Sons, Surveyors, The Mall, W.S. EAL. 2866. 804

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

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

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

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

**THE ALLEN - LYMAN SECRETARIAL BUREAU**, Bank Chambers, St. Giles' Square, Northampton (Tel. No. 4697), 7, Rose Crescent, Cambridge (Tel. No. 3506). Specialists in Specifications and Bills of Quantities, and we invite you to send yours to either of the above Branches; prompt attention, accuracy, and efficiency guaranteed. 658

**SALES EXECUTIVE**, with excellent references, keen to act as Selling Agent for specialist building products and equipment; unique Home Counties connection, educational authorities, and architects, and County and Municipal Authorities; London office and staff available; thorough and competent representation assured. Box 147.

**TYPING** (Shorthand, MSS. and Copy) and Duplicating; speedy and expert attention. Park Secretarial Services, 41a, Kentish Town Road, N.W.1. Gulliver 1275. 760

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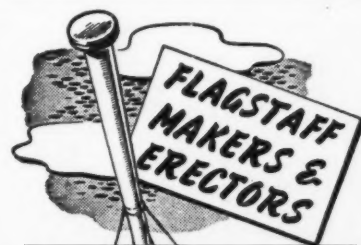
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