

# THE ARCHITECTS' JOURNAL



## standard contents

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

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

IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1	Sloane 3158
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers. 72/74, Victoria Street, S.W.1.	Victoria 0146/7
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). 46, Sheffield Terrace, W.8.	Park 7678
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Belgrave Square, S.W.1.	Sloane 4522
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service. St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers. 2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives. 8, Rosebery Houses, Breems Buildings, E.C.4	Holborn 1881
NFHS	National Federation of Housing Societies. 13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council. 82, New Cavendish Street, W.1.	Langham 4041
NHTPC	National Housing and Town Planning Council. 41, Russell Square, W.C.1.	Museum 1264
NPL	National Physical Laboratory. Head Office, Teddington.	Molesley 1380
NRIAD	National Register of Industrial Art Designers. National Gallery, Trafalgar Square, W.C.2.	Whitehall 2415
NSAS	National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning. 16, Queen Anne's Gate, S.W.1.	Whitehall 7245
PWB	Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 7611
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 6, Burlington Gardens, W.1.	Regent 1446
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 98 Gower Street, W.C.1.	Euston 6272/3
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNTPC	Scottish National Town Planning Council. 11, Drumsheugh Gardens, Edinburgh, 3	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5005
TDA	Timber Development Association. 75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

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[Vol. 106

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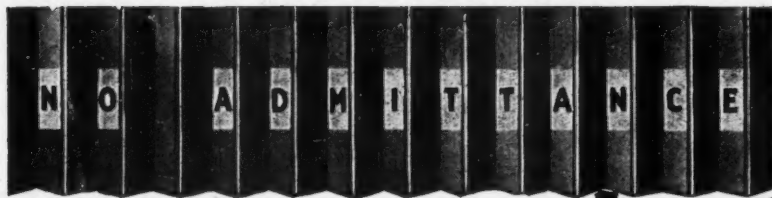
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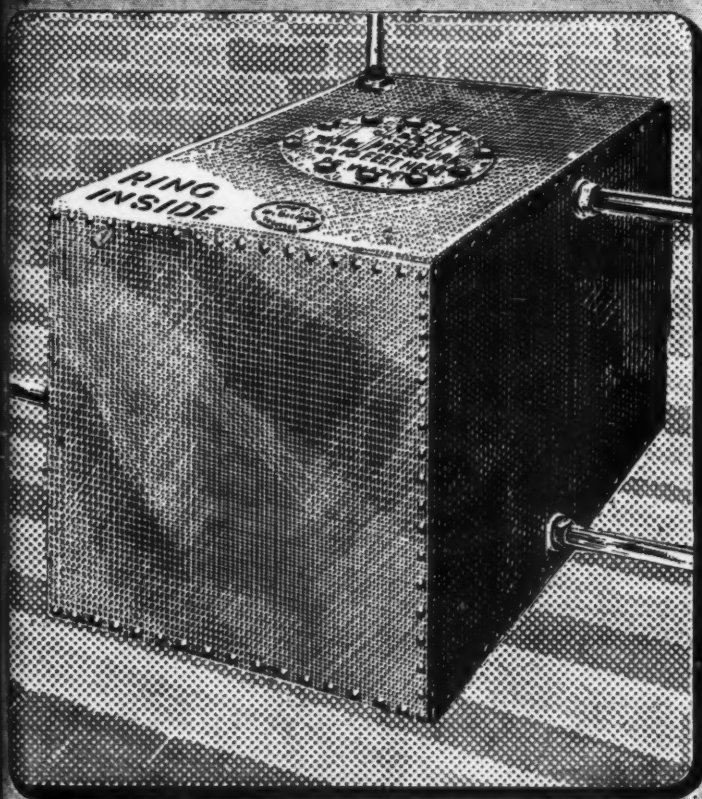
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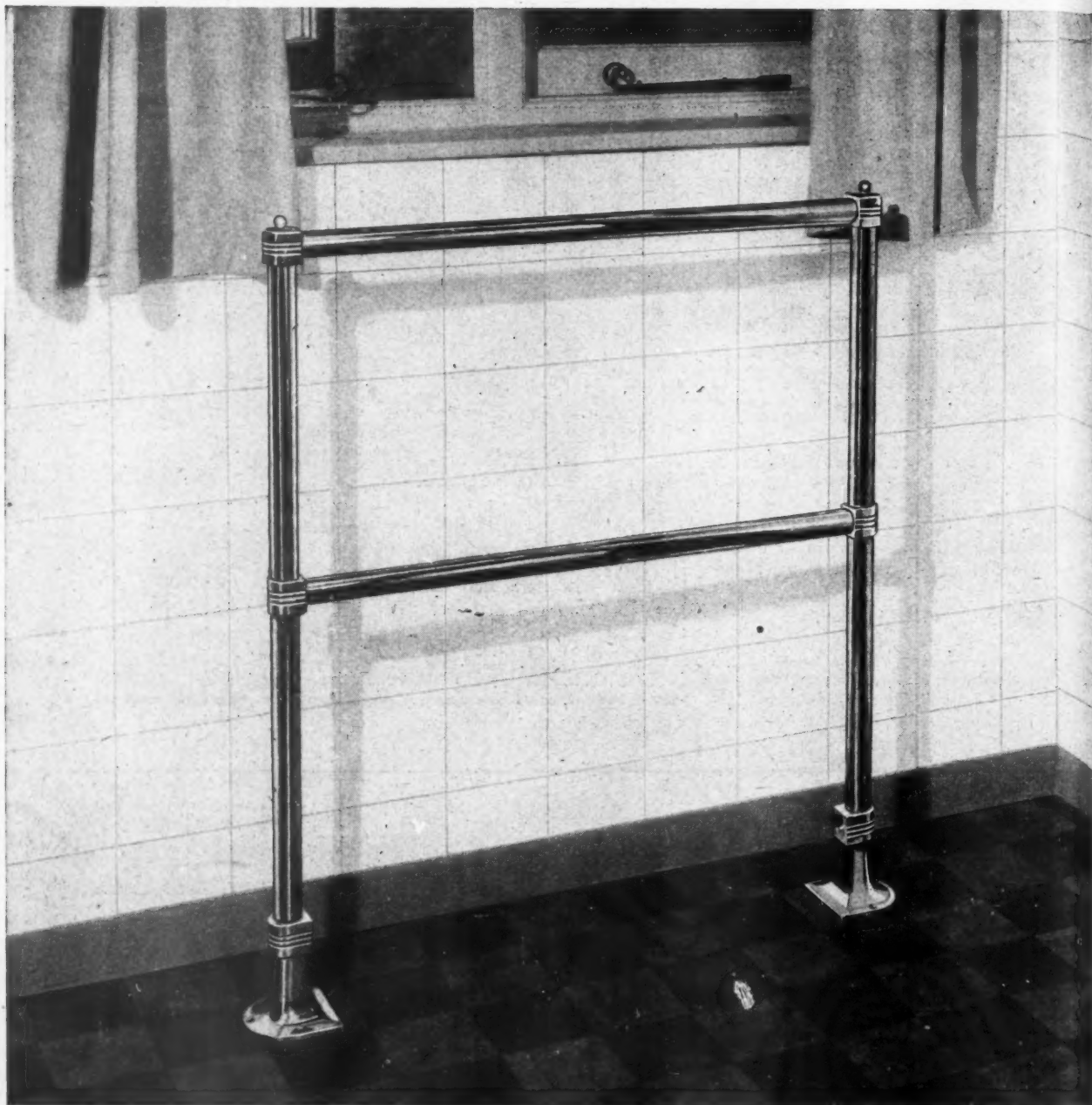
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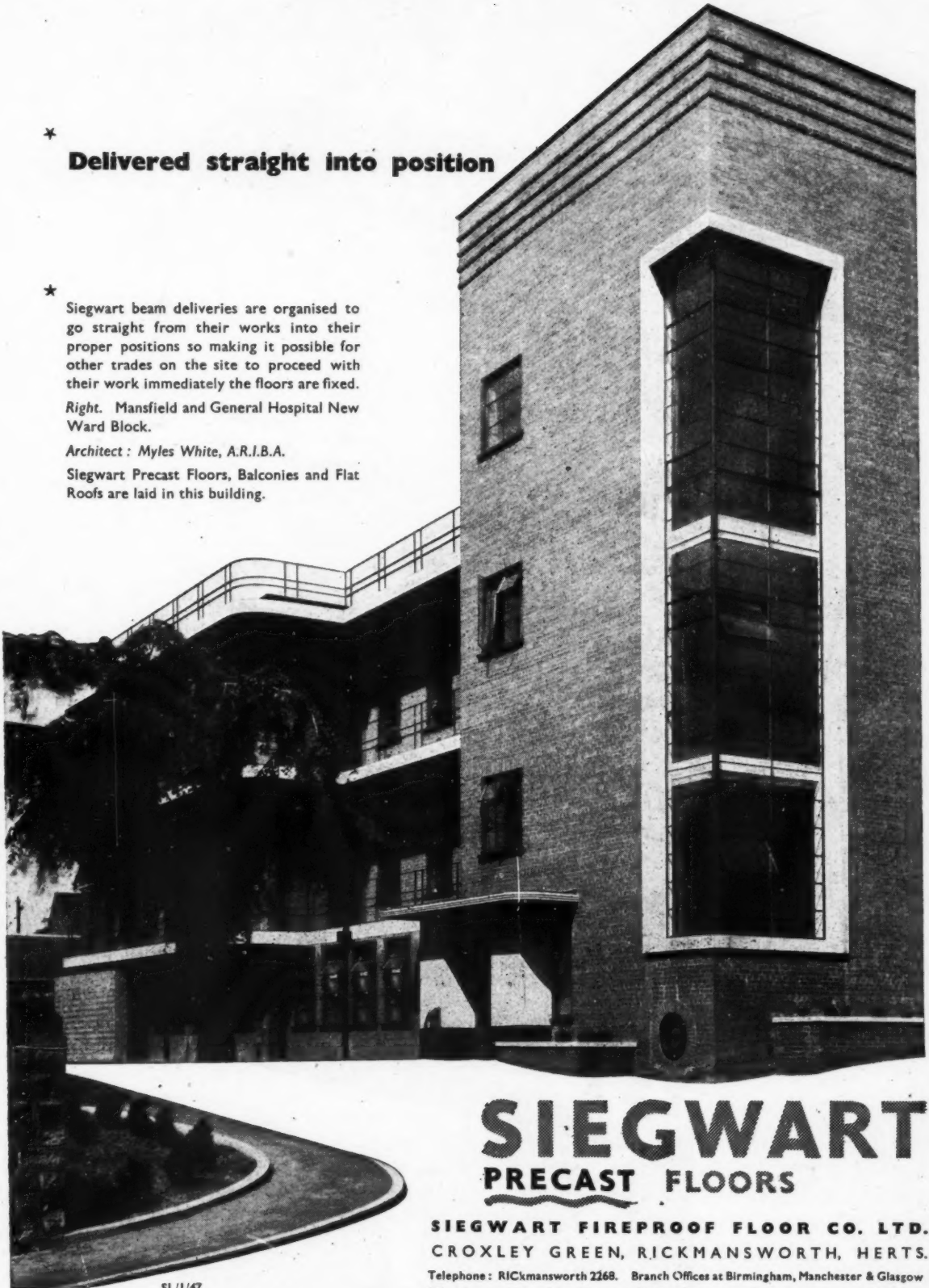
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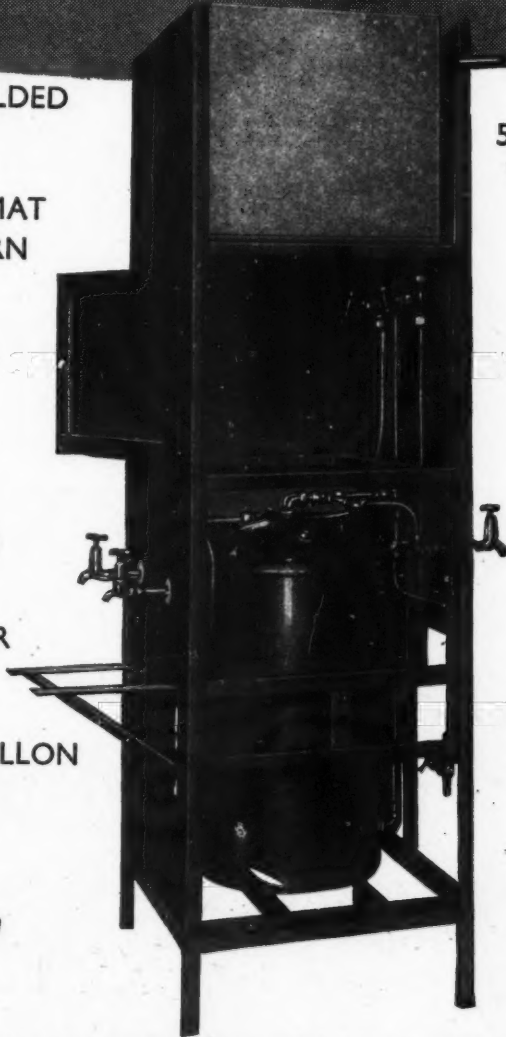
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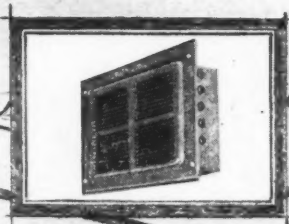
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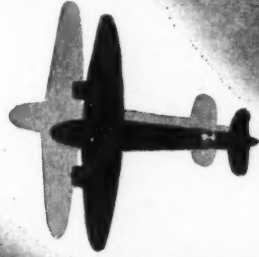
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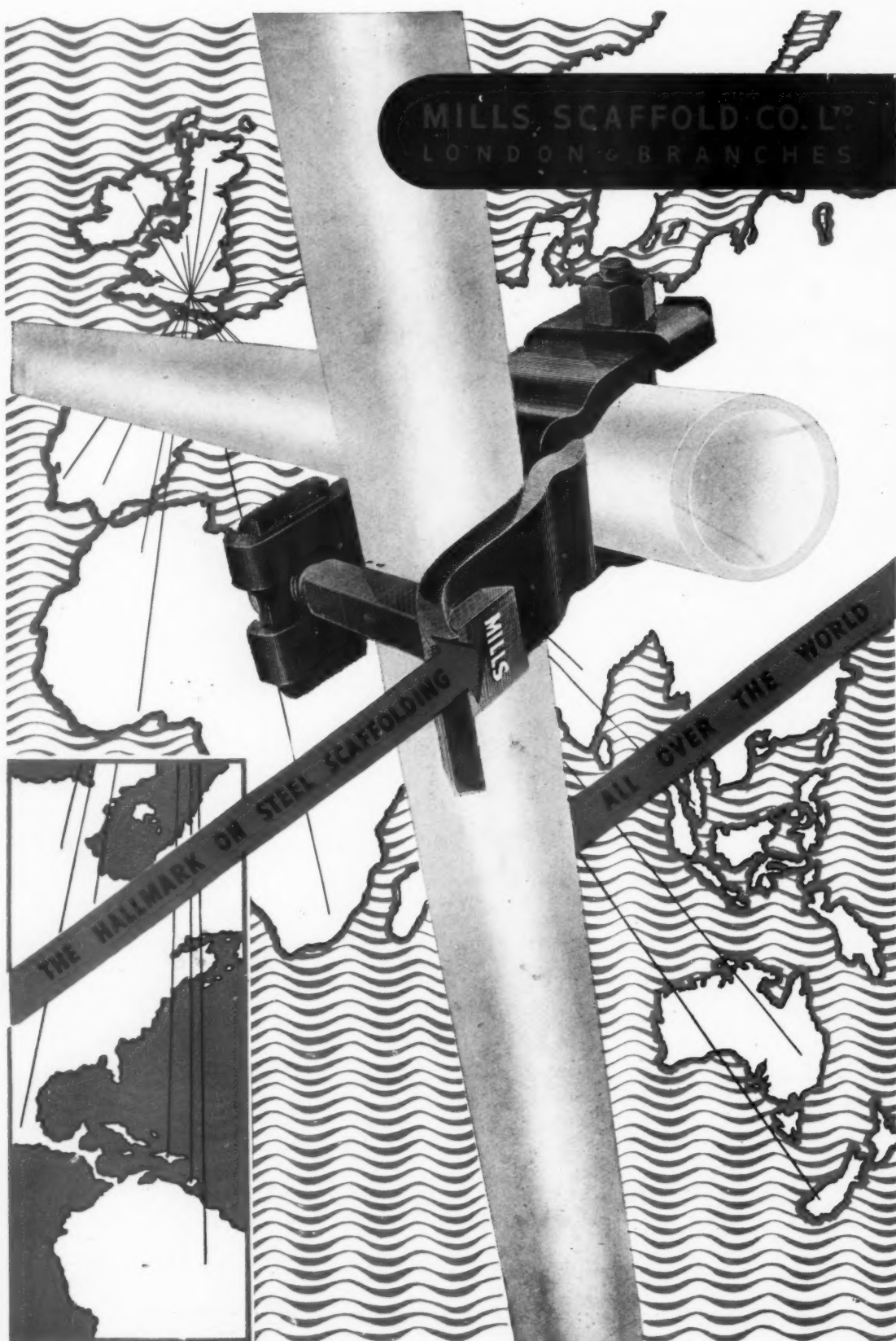
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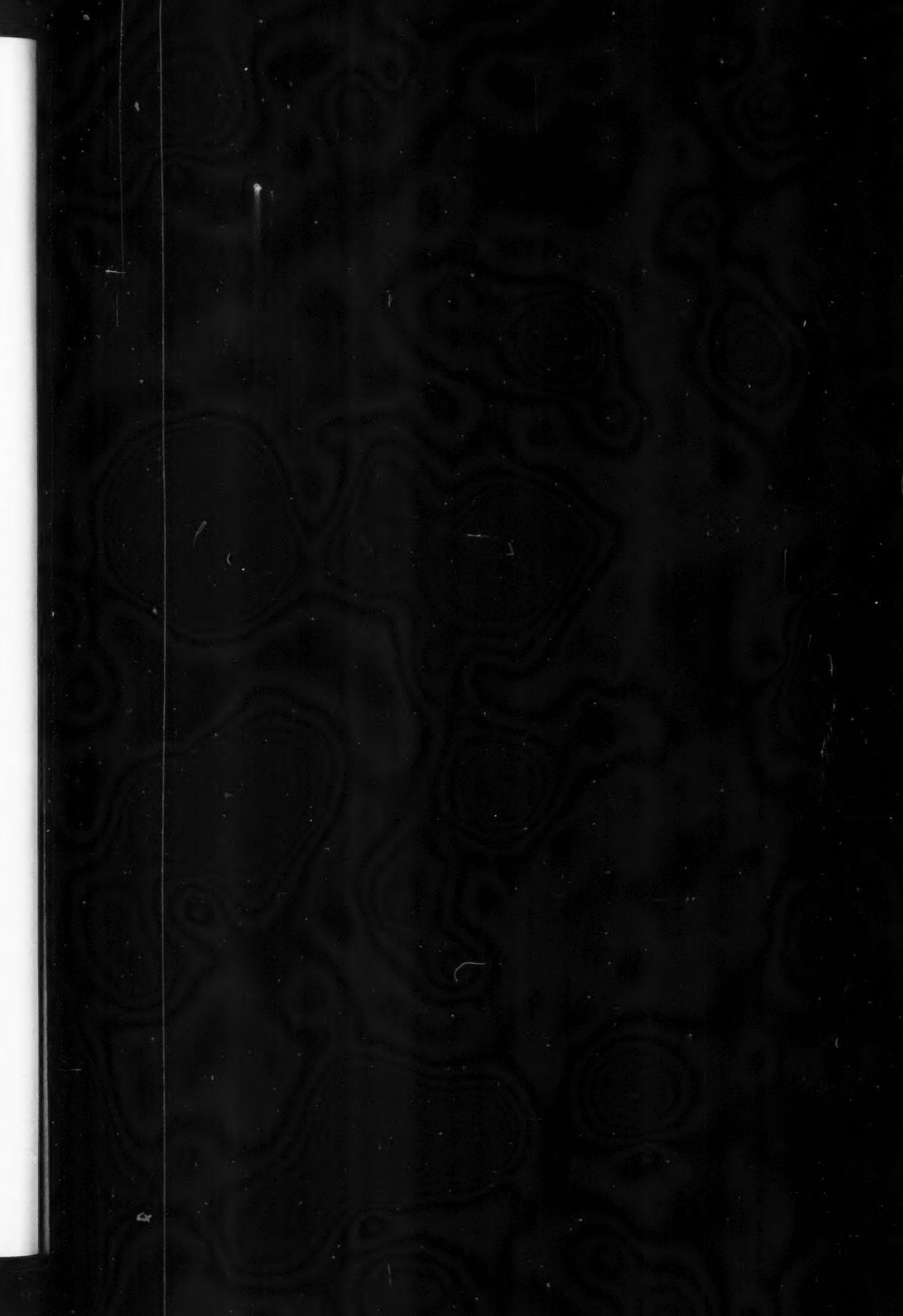
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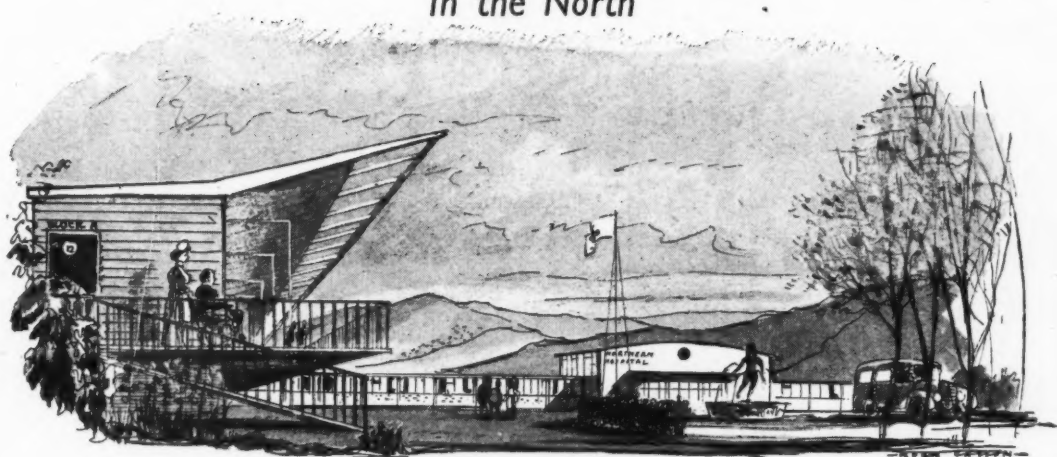
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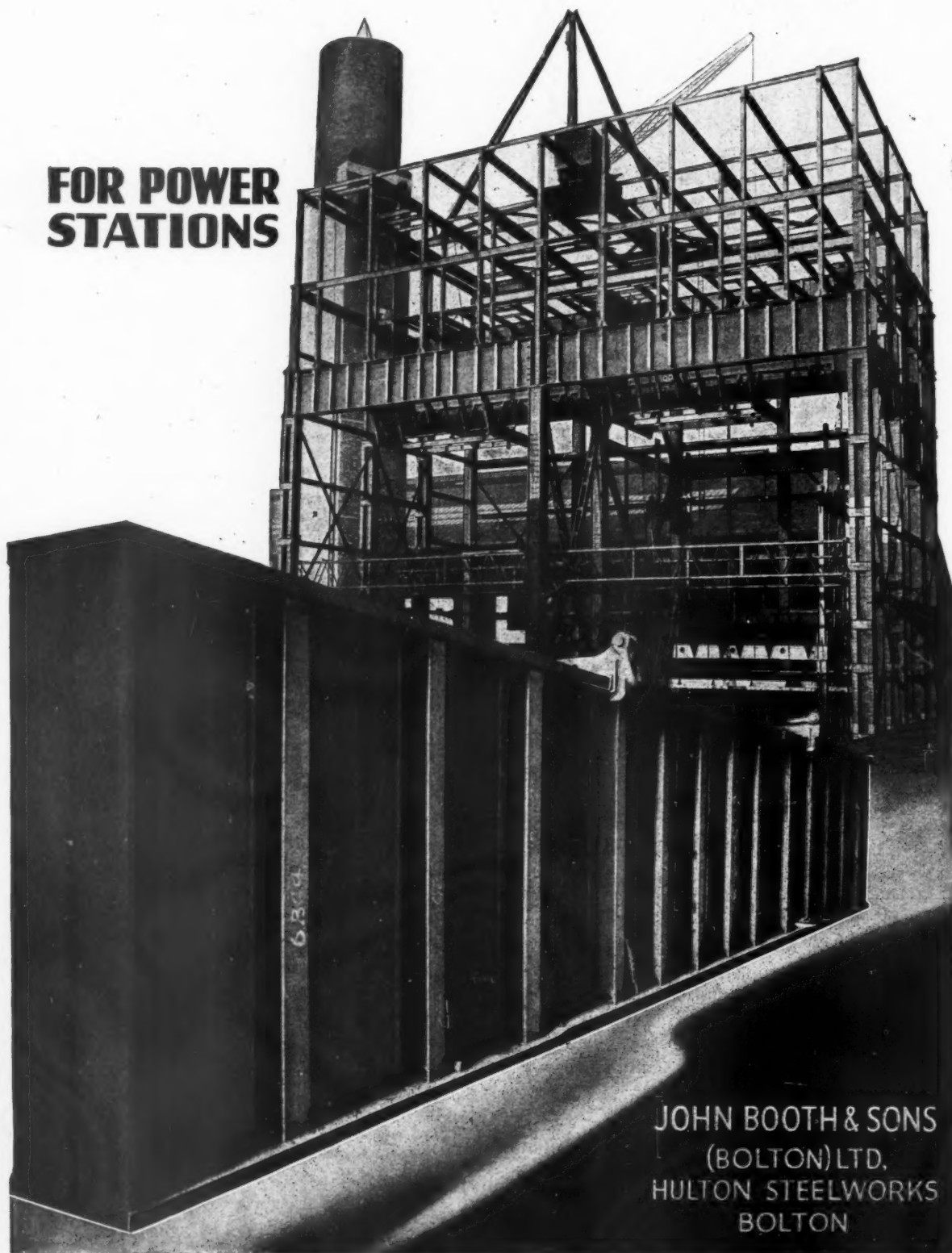
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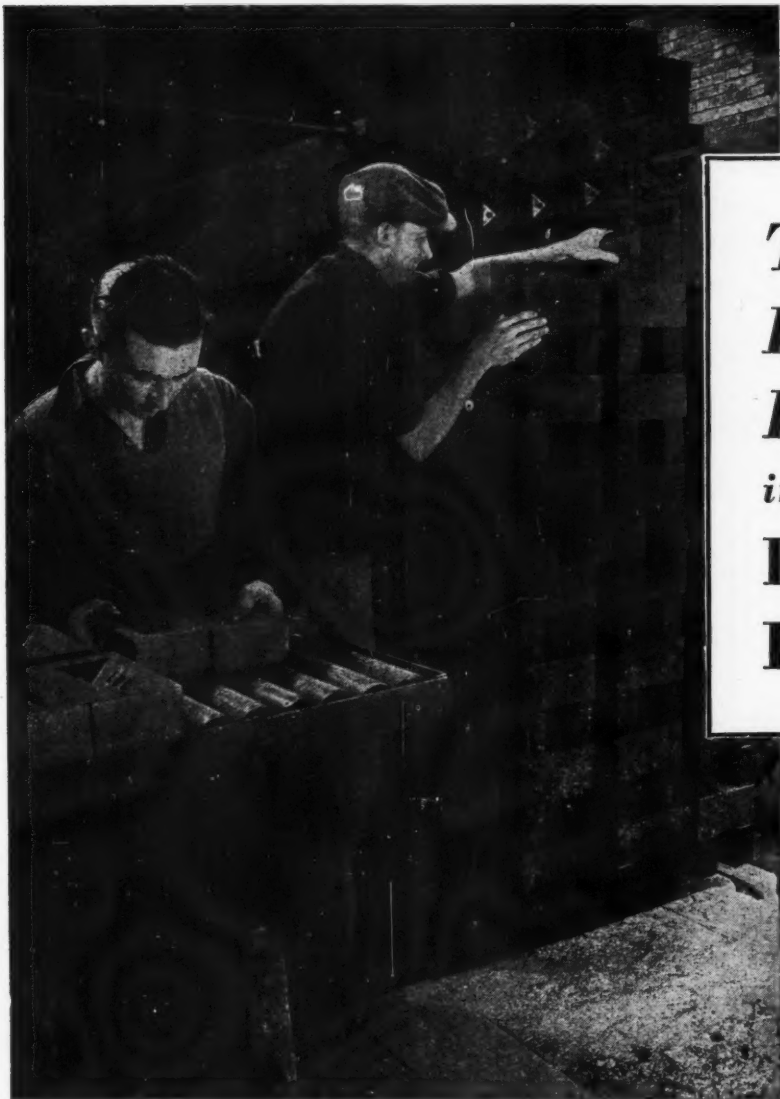
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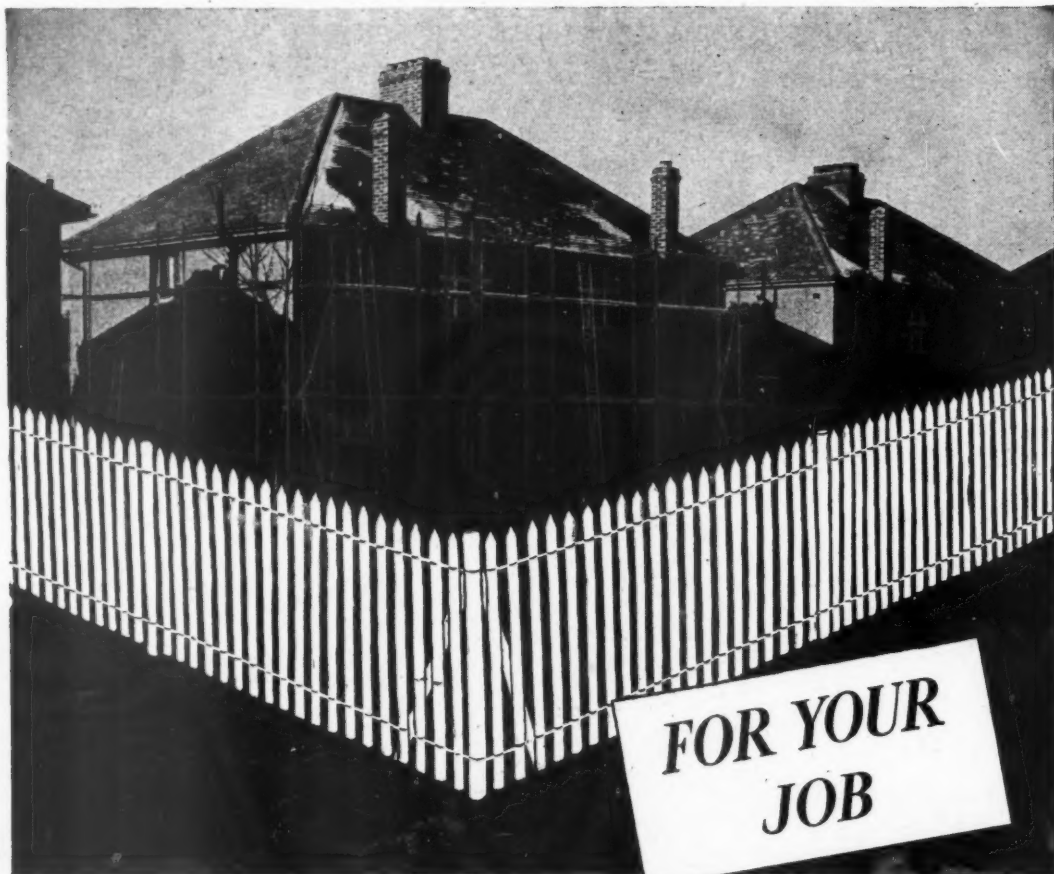
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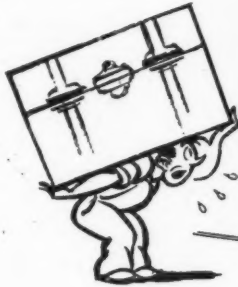
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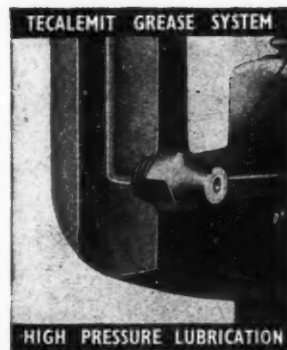
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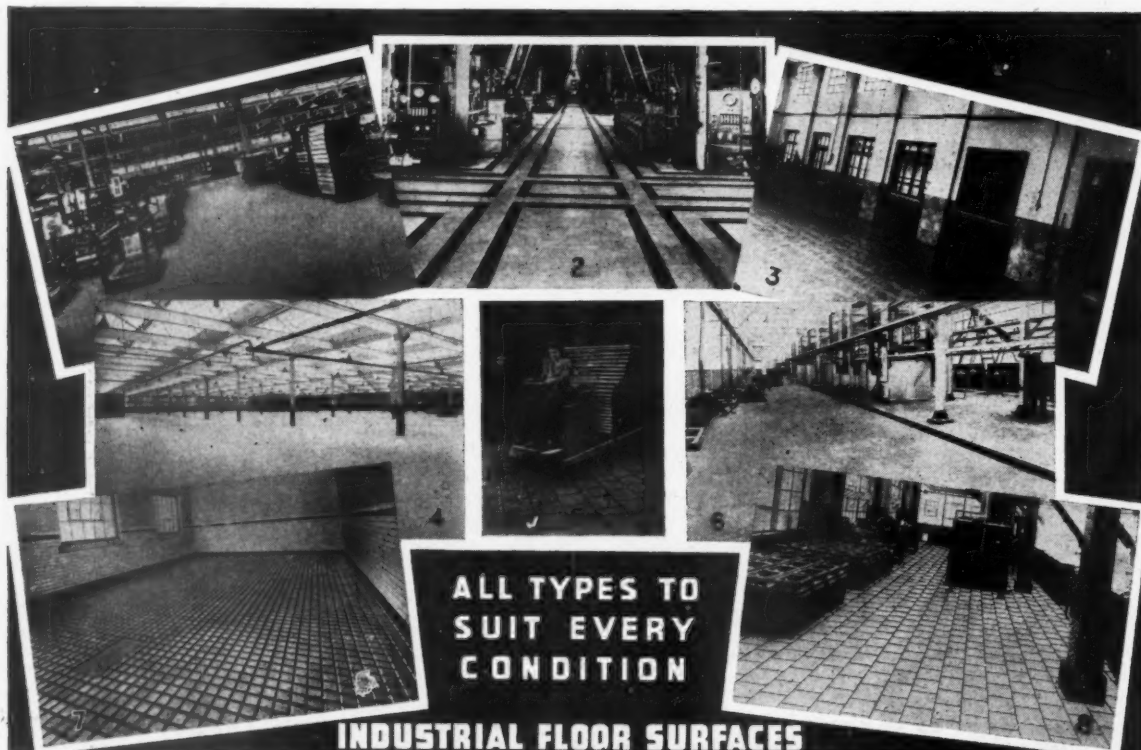
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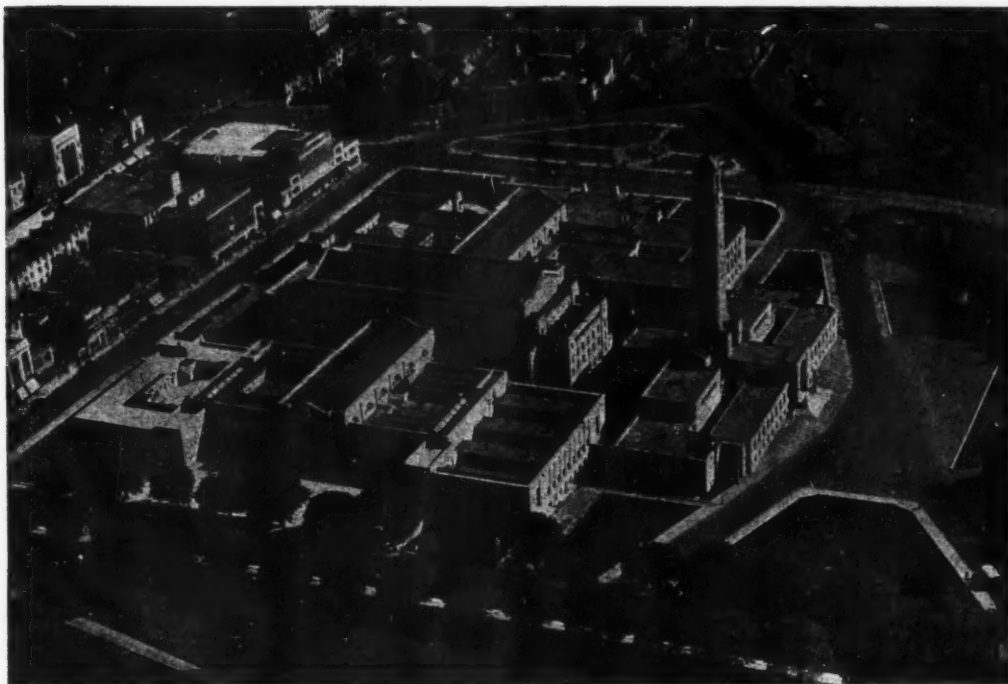


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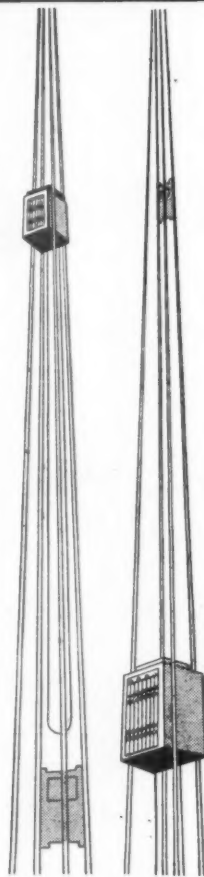
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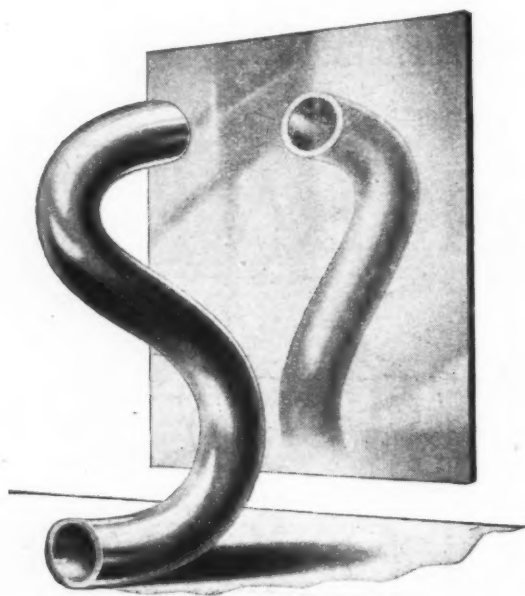
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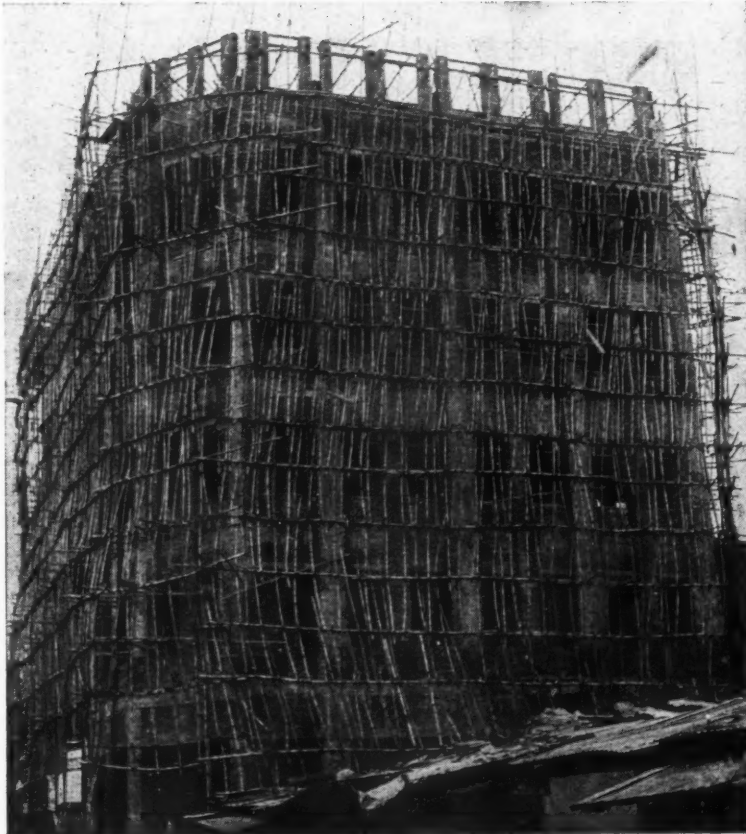
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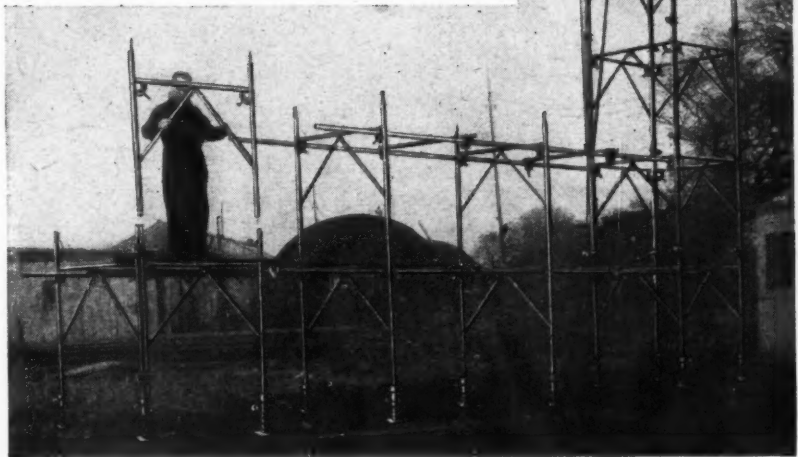


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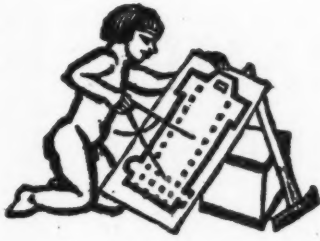
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## DIARY FOR JULY AUGUST AND SEPTEMBER

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

**CARDIFF.** *National Federation of Building Trade Employers' Summer Meeting.* Evening, July 9. Civic Reception in the City Hall by Lord Mayor of Cardiff, Alderman George J. Ferguson, J.P. July 10, Meeting in the Lecture Theatre, South Wales Institute of Engineers, followed by a Reception by the President of the South Wales Federation, Mr. T. H. Huxley Turner, and Mrs. Turner. (Sponsor, NFBTE.) JULY 9-10

**LEICESTER.** *Building Science Exhibition.* At the City Museum and Art Gallery. (Sponsor, Department of Scientific and Industrial Research.) JULY 7-19

*Timber Research and Building.* Forest Products Research Laboratory exhibition. At the School of Architecture and Building, Newarke Street, Leicester. The exhibition is of interest to all concerned with building in presenting the essential requirements of economy in timber, viz, the use of timber suitable for the purpose, seasoning, efficient design and preservation against decay and insect attack. Some information is also given on flooring timbers, plywood and machining of timber. The Forest Products Research Laboratory also provides an advisory service on all problems connected with the utilization of timber. An officer is present at the exhibition each day and will be pleased to answer enquiries. (Sponsor, FPRL.) UNTIL JULY 12

**LONDON.** *Town and Country Planning Association Swedish Tour.* Visiting Gothenburg, Copenhagen, Stockholm, Uppsala, Sigtuna, Sandviken, Gävle. (Sponsor, TCPA.) UNTIL JULY 5

*London Brewers' Association Planning Exhibition.* Planning and distribution of public houses. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, London Brewers Association.) UNTIL JULY 5

F. J. Osborn. *What we Saw in Sweden.* An Account of the Town and Country Planning Association's Tour of Sweden. At the Planning Centre, 28, King Street, Covent Garden, W.C.2. (Sponsor, TCPA.) 1.15 p.m. JULY 10

*Windmills.* Exhibition of photographs at Heal's Mansard Gallery, 196, Tottenham Court Road, W.1. (Sponsors, Windmill and Watermill Section of SPAB in collaboration with Heal and Son, Ltd.) 9 a.m. to 5.30 p.m. daily, Saturday 1 p.m. UNTIL JULY 26

*Infra-Red Heating by Gas Exhibition.* At Gas Industry House 1, Grosvenor Place, London, S.W.1. (Sponsor, British Gas Council.) UNTIL JULY 31

P. L. Leigh-Breese and Fred Griffiths. *A Taxi Driver and Landlord Discuss Tenants Problems.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch 12.45 p.m., 2s. 6d. Talk, 1.15 p.m., 6d. JULY 8

*Eleventh Public Works Roads and Transport Congress.* At Olympia, London. JULY 21 to 25

Alexander Block. *Sociology of Housing.* At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Buffet lunch 12.45 p.m., 2s. 6d. Talk 1.15 p.m., 6d. JULY 22

*London Master Builders' Association Luncheon.* At the Connaught Rooms. Guest of honour, C. W. Key, Minister of Works. (Sponsor, LMBA.) JULY 24

**MANCHESTER.** *Builders' Plant, Equipment, Tools and New Materials.* Exhibition at the Government Building Trade Training Centre, Denton, Manchester. The aim of the exhibition is to bring to the notice of all engaged in the industry, the small plant, equipment, etc., which has been designed to help speed up production and also to help in meeting the universal shortage of labour. (Sponsor, The Building and Civil Engineering Joint Committee under the chairmanship of the Regional Director, Ministry of Works.) JULY 17 to 26

**NEWCASTLE-UPON-TYNE.** *Institution of Civil Engineers Summer Meeting.* JULY 3 and 4

**OXFORD.** *Building Science Exhibition.* At the Electricity Showrooms. (Sponsor, DSIR.) JULY 28-AUG. 9

**READING.** *Town and Country Planning Summer School.* At Reading University. (Sponsor, Town Planning Institute.) JULY 16-23

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

**SURBITON.** *Art in England.* Summer School. At Hillcroft College, South Bank, Surbiton, Surrey. JULY 26-AUG. 9

**TUNBRIDGE WELLS.** *Ideas on Design in the Home Exhibition.* At the Municipal Museum. (Sponsor, Arts Council.) UNTIL JULY 5

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

*The Council of the Royal Society of Arts has this year made the following NEW APPOINTMENTS TO THE DISTINCTION OF ROYAL DESIGNER FOR INDUSTRY (RDI):*

James Gardner—Exhibition Design; Robert Y. Goodden—Industrial Design; Ashley Havinden—Commercial Art. The following foreign designers receive the Distinction of Honorary Royal Designer for Industry:—Alvar Aalto; Walter Gropius; S. E. Rasmussen.

*Mr. Julian Keable of Sittingbourne, Kent (and St. Christopher School, Letchworth), has been awarded this year THE LEVERHULME SCHOLARSHIP, tenable at the AA School of Architecture, value £1,000 which includes payment of fees and maintenance for five years.*

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## From AN ARCHITECT'S Commonplace Book

**THE QUESTION OF SIZE.** [From *If You Want to Build a House*, by Elizabeth Mock.] Before the war people were spending more and more time outside their homes. Usually the automobile is held to account, but wasn't it partly because the average house was tight and growing tighter? Space was sacrificed to mechanical equipment and each new gadget seemed to bring a reduction of floor area. Minimum space standards became a fetish, applied with almost equal enthusiasm to the minimum-cost housing project and the dwellings of the upper income group. Bathrooms, kitchens and bedrooms were most decisively affected by the cult of the minimum, but no part of the house escaped. Ceilings were lowered, corridors narrowed, stairs made steeper. Even when an unusually generous living room was offered as recompense, the total effect was often stingy.

It is the architects themselves who have been chiefly responsible for this æsthetics of the irreducible, a snobbism no less dreary for its origin in humanitarian zeal and low-cost housing. By making mean plans workable, architects gave them the dignity of "standard practice." Nothing is easier to lower than a standard. And few things are more difficult to raise.

The architect who seeks new ways to tailor our large, restless and fumbling bodies into under-sized, over-specialized living quarters is doing us a gross disservice: the Pullman roomette may be a comfortable way to get across country, but let's not confuse it with gracious living.

**FOUR SCHOLARSHIPS**, each worth £200 a year for three years, are to be awarded to boys in the building industry, to encourage the development of a high standard of technical knowledge within the industry.

The scholarships are provided jointly by the National Joint Council for the Building Industry, the London Master Builders Association, the Southern Counties Federation of Building Trades Employers, and the Building Apprenticeship and Training Council. Three of the scholarships have been awarded. The successful entrants are: David Ivor Rymell, Walton-on-Thames, Surrey; Dennis Alfred William Astle, Gillingham, Kent; David John Lee, Swanley, Kent.

★

**The Essex County Council is to engage PRIVATE ARCHITECTS TO HELP THE COUNTY ARCHITECT in the School Building Programme.**

The appointments are subject to terms being agreed and incorporated in a formal contract. The President of the RIBA has nominated a panel of twelve architects, and the County Council has appointed the following for the first five projects: Messrs. Gerald Shenstone and R. Sheppard, FF.R.I.B.A., Mr. D. Clarke Hall, F.R.I.B.A., Mr. R. C. Foster, M.B.E., M.C., F.R.I.B.A., Mr. J. E. K. Harrison, F.R.I.B.A., Messrs. G. Fairweather and R. Furneaux Jordan, FF.R.I.B.A.

★

**A committee representative of the various arts (including architecture) has been at work for some months making plans for the creation of an INSTITUTE OF CONTEMPORARY ARTS, and an appeal is now being made for funds to bring it into being.**

An outline of its intentions was given in a recent letter to *The Times*, signed by Mr. Herbert Read, chairman of the organizing committee. He referred to the need for "some centre where artists of all kinds can meet with a co-operative intention, and

where their activities can be presented to a public ready to encourage art in those preliminary stages of experiment which are so vital for its development." A parallel clearly exists with the Museum of Modern Art in New York, and Mr. Read stressed that "the Institute will differ from existing institutions in that it will initiate definite projects, and not merely collect and exhibit the chance productions of isolated artists." Besides Herbert Read, the organizing committee consists of Frederick Ashton, Jack Beddington, J. B. Brunius, Edward Clark, Alex Comfort, Michel St. Denis, E. C. Gregory, Geoffrey Grigson, G. M. Hoellering, Robert Melville, E. L. T. Mesens, Roland Penrose, J. M. Richards, Peter Watson and W. E. Williams. The proposal is to finance the Institute initially by finding 500 people willing to become founder members by subscribing a minimum of 100 guineas each. When the Institute has once been established it will be currently financed by the regular support of ordinary subscribing members. Contributions to the foundation fund should be sent to the acting honorary

treasurer, Mr. Roland A. Penrose, care of Barclays Bank, 10, Southampton Row, London, W.C.1 and further details can be obtained from the temporary office of the secretary, 23, Brook Street, W.1.

*The officers elected for the Session 1947-48 of the SHEFFIELD, SOUTH YORKSHIRE and DISTRICT SOCIETY OF ARCHITECTS are: President—D. B. Jenkinson, F.R.I.B.A., Rotherham; Vice President—J. C. P. Toothill, F.R.I.B.A. Hon. Secretary—H. B. S. Gibbs, F.R.I.B.A. Hon. Treasurer—J. Mansell Jenkinson, F.R.I.B.A.*



Sir Malcolm Trustram Eve presenting three awards under the scheme to grant four scholarships to boys in the building industry. The photograph shows, from left to right: David Ivor Rymell; Dennis Alfred William Astle; Sir Malcolm Trustram Eve and David John Lee. See news item.





## Cranbrook Mill

A photograph by Rex Wailes of Cranbrook Mill, Kent, from the current *Windmills Exhibition* at Heal's Mansard Gallery, sponsored by the Windmill and Watermill Section of the Society for the Protection of Ancient Buildings and Heal and Son, Ltd. Mr. John Russell of Cranbrook Mill received the first of 18 presentation certificates that have been awarded by the SPAB to millers who have shown zeal in the maintenance of their windmills. Cranbrook Mill, built in 1814, is one of the few mills in the country still wind-driven.



*The North of Scotland Hydro-Electric Board has published the STORR LOCHS CONSTRUCTIONAL SCHEME for the Island of Skye.*

The project, which will cost about £247,000, will be developed in two stages. Initially it will have an annual output of 1½ million units and, finally, an annual output of 5½ million units of electricity to serve the 10,500 people of Skye and provide opportunity for agriculture and industrial development. The site of the project is a valley, south of the precipice of Storr, between Portree and Staffin.

★

*A number of experts asked that UNESCO should study the TEACHING OF TOWN PLANNING in various countries and organise an international exchange of teachers and students.*

This was declared at an international meeting of experts in town planning to discuss the role of UNESCO in that field held in Paris at the end of the Congress of the International Town-Planning and Housing Federation. Also stressed was the need to re-organize the way in which architecture is at present taught, with special reference to the need for a much broader curriculum. Mr. Ascher, of the UNESCO Secretariat, agreed that there was need for making the problems of architects and town planners better known to the general public; he thought that it might be possible to have films made with this end in view. The President of the Federation, Mr. G. L. Pepler, said that it would be the town planners' task to decide where, under given circumstances, it was desirable to have a theatre, a museum, or a library; UNESCO, however, would have to make up its mind what those circumstances were. At the conclusion of the meeting it was generally agreed that there was good ground for a fruitful collaboration between UNESCO and international organizations for Town Planning and Architecture; UNESCO could bring its influence to bear on governments in matters affecting town planning and housing.

★

*In the annual ELECTION TO THE COUNCIL 1947-1948 Sir Lancelot Keay, K.B.E., M.Arch. (Lvp.) was re-elected President.*

An extract from the Scrutineers' Report giving the result of the election for eight Members of Council, three Associate Members of Council, and one Licentiate Member of Council is given on page 11.

*The British Council exhibition, REPLANNING BRITAIN, recently shown in Turkey, has now moved to Prague.*

One of the most important sections of the exhibition deals with the reports that have been prepared for the replanning of London, Durham, Norwich, Exeter, Plymouth, Coventry and Manchester. The exhibition also includes several architectural models and a photographic section on housing prepared by the Building Centre.

## THE COST OF HOUSES

THERE is a ceiling for the cost of houses, as everyone knows, or should know; it was, indeed, recently adjusted upwards by £100. But how much does a house cost? As far back as 1944 this question resulted in a series of contradictory answers from Ministers and Government spokesmen; but Lord Portal had this excuse at least, that practically no houses were then being built on which an answer could be based. It is distressing that as late as June, 1947, when about 100,000 permanent houses have been finished, the question still remains unanswered.

There is, of course, a double meaning in the question. The cost of houses may mean the over-all total cost; and the "cost of a house" may therefore be taken to mean the *average* cost of all the houses built in a year. Or the question may be taken to mean what does the cost of one particular type of house built in one particular locality now actually amount to? Even this will be an average for the locality, unless the enquirer is going to be satisfied with a series of answers, one for each individual house.

Although all these alternative questions need to be answered, Ministers remain extraordinarily coy in issuing official figures, even to cover the most limited field. The standard formula for Parliamentary replies on this subject has now become that "sufficient data are not yet available." Parliamentary answers on the subject of costs and productivity still remain, indeed, a mine of contradictions and obscurity. Mr. Key, speaking the other day of the alleged decline in output, said that there had been a "great deal of talk" about the decrease, but none of that had been proved. The Economic Survey for 1947 an official statement, stated in paragraph 111, that "the output per man-year [of the building labour force] is far below pre-war." Is it surprising that the architect, and the private citizen, is sometimes a little uncertain how to cost a job?

It may not be possible to give any authoritative, or final, answers to such questions as "what is the cost of a house?" or "by what percentages has output per man-year declined (or risen) since 1938?" To pursue such enquiries in general terms, and in the hopes of establishing averages that everyone accepts, and no one can criticise, is one of those perfectionist will-o'-the-wisps that are chased too often, one fears, up and down the corridors of Lambeth Bridge House. Nevertheless, is it really possible to believe that no records have been kept of any of the first 100,000 permanent new houses? Could not Ministers, with all their emergency powers, defence regulations, and statutory rules and orders, discover, and publish, the costs of just one of these houses? Or perhaps a dozen, or twenty? The present high-powered ignorance of facts can rarely have been exceeded in this, or any other, industry. No doubt the reluctance to publish any figures is due to fear that unrepresentative results will be used for purposes that are not pleasant for the authorities; but no criticism could find better ammunition than in the fact that no figures at all on costs were allowed

to appear. It would be better to publish statements on how much scheme A in county Z actually has cost—or is estimated to have cost—per house, than to leave the whole question subject to speculation.

This is not an issue of nosey parkers versus a prudently discreet and all-wise authority. We are all equally in the dark. Materials' prices, as our special quarterly article shows, advanced further than ever this last spring. Output, whatever Mr. Key may say, is not satisfactory. Instead of grasping the nettle, and producing some attempt to solve the incentives problem, the Government has now weakly taken the ceiling off wages payments. At present planlessness over costs and wages seems to be an outstanding characteristic of Labour administration.



*The Architects' Journal*

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

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

### MARG

Things are stirring in India, not only in the political field but among the younger architects as well. I have recently heard news from one of their number, who is now in this country, of a small group of young architects in Bombay who seem to have ideas and an international outlook as well as enthusiasm, and have banded themselves together under the name of MARG (Modern Architectural Research Group). They unknowingly chose the same title as the English group that, fifteen years ago, tackled just the same task in this country, but it also happens that *marg* in Sanskrit means "the way forward"—a promising omen.

They have begun by launching a magazine (in English) under the name of their Group. Two numbers have now

been published. The standard is high and the production full of ideas. The moment when Indians take charge of their own destiny is an appropriate moment to think constructively about modern Indian architecture. India has suffered much in the past from the indiscriminate intrusion of Western styles, and now is their opportunity of looking instead to their own tradition and seeing whether it can be re-interpreted in a modern spirit. So signs of fresh thinking among the young architects are very timely. Look out for *Marg*.

### BUILDING UNDER THE COUNTER

The Black Market is always more interesting when described by someone who knows something about it—he does not need to be an actual operator in it. Last month the Housing Centre arranged a discussion on the Black Market in Housing at one of their lunches. The principal speaker was a Councillor Cook, of St. Pancras Borough Council, and Councillor Cook, from what he said, strikes me as being a shrewd and intelligent observer of the contemporary scene. The London Trades Council, he said, estimates that some 40,000 building trade operatives in London alone have disappeared into the Black Market, which represents a potential loss to London of some 40,000 houses in a year. And since some 22,000 people from all over the country are apparently moving in to London each month, London can ill afford to lose a single productive worker.

It is easy to talk nonsensically—and hypocritically—about the Black Mar-

ket in Housing. So many of the people who lure men into illegal work on repairs and decorations are not criminals. They are just selfish, thoughtless people — like ourselves. They want a job done—and who with a house has not a job of some kind to be done in it?—and they have the money, and the result is another cash transaction with a remarkably high rate of profit to all concerned in carrying it out. But where Councillor Cook was most impressive was in his approach to possible remedies and in his realisation that the final cure will only come when — and if — supplies of materials are once again ample for all requirements. Here are his suggestions:—

- (a) Prosecutions of offenders by local authorities, with much stiffer fines, and prison sentences in the worst cases;
- (b) the installation of the master-certificate and sub - certificate method of the control of jobs;
- (c) the requisitioning of the really essential materials, steel, timber, cement, bricks and electrical fittings, after manufacture to ensure that they reach the most useful destination.

That would not solve everything. It would not solve the case of the local council which has authorised the expenditure of £200,000 on commercial building and only £60,000 on housing. But those remedies would make a difference.

Thus Councillor Cook. One has the feeling that the Ministry of Health's bright dreams for 1947 are now considerably tarnished. Perhaps for 1948 they will face the facts of life a little more realistically. They might do worse than talk to Councillor Cook, amongst others.

### IT CAN HAPPEN HERE

News that has come across the Atlantic during recent years of the enterprising activities of New York's Museum of Modern Art has made Englishmen think rather wistfully how grand it would be to have something of the same sort here. Perhaps they haven't thought it very hopefully. Now however there seems to be a chance that it may come about before long.

A letter in *The Times* last week announced that plans have been laid for an Institute of Contemporary Arts, to be the Museum of Modern Art's counterpart in England, and the same letter launched an appeal for funds to bring it into being. I believe some more details appear on another page of this journal, and I am told by some of the eminent characters, connected with the various arts, who form its organising committee that an enterprising programme of activities only awaits the word go.

As one of its purposes is to bring the various arts closer together, architects will want to give it all possible support; for the mother of the arts has most to gain by having her family round her. In this context her family is taken to include the theatre, the film, ballet and radio, as well as painting and sculpture. One day—who knows?—we may even see the Institute building its own headquarters, as the New York Museum has done. What an outstanding architectural competition that would make.

#### CINEMA SURVEY

In some ways, architects who specialised in the designing of cinemas must have been a race apart. Their minds lived in a world of luxury and elegance. This, they seemed to say to the prospective inhabitants of their creations, is not a real world. Here are dreams, imaginings, palaces where even gravity may be defied. And when the efforts of the interior decorators are added to the final effect all the average man can say is how right they were.

These casual thoughts are not induced by the spectacle of any new cinema arising from the ruins of an old (or from the ruins of anything else) but merely from a perusal of the results of an inquiry conducted by the owners of the Granada circuit of cinemas into the preferences and habits of their regular customers. This quiz was a feature of life in the Granada circuit before the war. It has now been revived and I recommend all interested in the habits of the populace to read the latest addition to the series. The likes and dislikes of the public for particular stars and directors may be of transitory interest but their views on what the actual building they frequent are not.

A series of questions was put to those who go to the cinema once a month or more (which must include a very large section of the population). Fifteen per cent. of them went to the same cinema whatever the film and another 21 per cent. of them went always to the same cinema but only when they liked the film (in other words, the actual building has a strong pulling power of its own). Of those who go to a particular cinema, 15 per cent. go because it is the easiest to get to and 31 per cent. because it is the most comfortable.

In short, it looks as though not less than one-quarter of the whole of the regular cinema-going public are drawn to the cinema, not by Hollywood or Denham, but by the works of the architect and the interior decorator.

#### A TAPER FOR LAMPLIGHTERS

Pausing for a moment, awestruck, before the vision of the shelfloads of new guidebooks that must be conceived or gestating in the minds of a thousand learned persons, one wishes all these would-be illuminators of chancels old and new an hour's respite from their labours to read Betjemen's *The Antiquarian Prejudice*. It can still be found in some bookshops. Sixpence is a small fee for a short course in not making a fool of one's self. Those who wouldn't in any case will enjoy it, too, with pardonable complacency.

#### SAD, BAD CHARACTERS

A pale blue dust-jacket bedecked with an artful blend of lettering ranging from fair-ground-baroque to Gill Sans Bold protects a new edition of *A Pocket Book of Alphabets* [published by E. & F. N. Spon, Ltd., 3s. 6d.]. Intended for species described ambiguously as "ornamental penmen, engravers, sign-writers and draughtsmen," oddly enough few of the forty alphabets illustrated are properly pen styles. Others are sad, bad characters lingering over from another world than this. Despite its promising jacket I still have to discover a book of alphabets selective enough only to set out beautiful lettering and painstaking enough to indicate the name and size of each style.

ASTRAGAL



## LETTERS

Harold Wyatt,  
Dipl. Arch. (Liverpool)

John Smith

### The Liverpool School

SIR,—At the Architects' Conference in Dublin a reunion of Liverpool School of Architecture ex-students was suggested. Will all those who trained at the Liverpool School write stating their preference for Liverpool, London or Dublin as a venue to:—Harold Wyatt, DIPL. ARCH. (Liverpool), 19, Walden Place, Welwyn Garden City, Herts.

If the response is satisfactory it is hoped to form a small committee to undertake the necessary arrangements at once with a view to holding the reunion in the autumn or early winter.

Welwyn Garden City

HAROLD WYATT

### Salaries

SIR,—The one and only organization to place its cards on the table in answer to my original letter on the question of a negotiating body is the ABT, which I obviously expected it would.

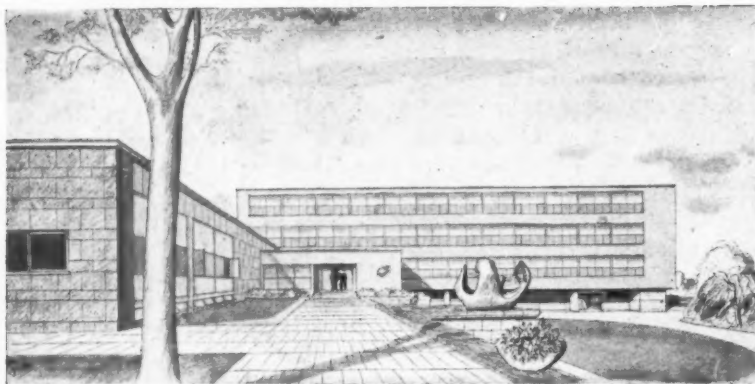
It should be clearly obvious that the ABT is best suited to guard the interests of the assistant. To me the RIBA is one of the finest, praiseworthy and dignified professional institutes among learned societies, but heavens, not to be looked upon as a trade union. Do the building tradesmen go to the guilds or companies when they have a grievance—no, they have their respective trade unions.

As a person with a right wing outlook I am fully prepared to give the ABT my full support, and suggest every other architectural assistant gives similar thought to the idea.

Thank you, Mr. Penn.  
Newcastle

JOHN SMITH





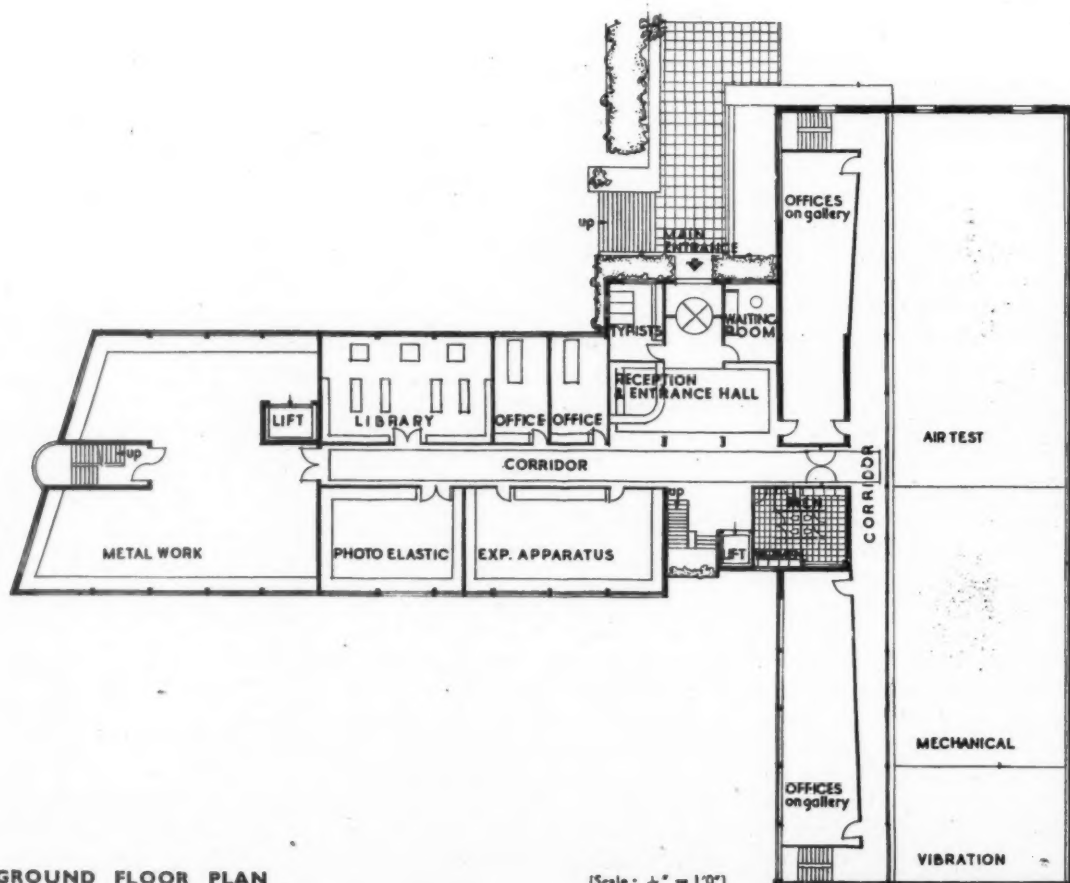
*Perspective view from the south-east, looking towards the entrance.*

# PROJECT FOR A NEW RESEARCH LABORATORY BY THE GRENFELL BAINES GROUP

This laboratory to be built at Rugby for the English Electric Company, was designed by G. Grenfell Baines, member of the Grenfell Baines Group. It is the first of a series of research laboratories to be erected at Rugby.

It is a steel-framed building with reinforced concrete floors and roof and has brick walls with large continuous windows running above bench level.

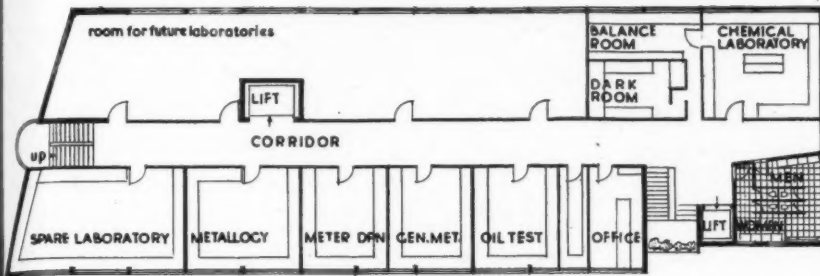
The special nature of the work to be carried out in the air test, and the mechanical and vibration laboratories make it necessary to house this accommodation in a separate block of a different height. All the other rooms and laboratories are of normal character and lend themselves to a plan grid based on 11 ft. centres



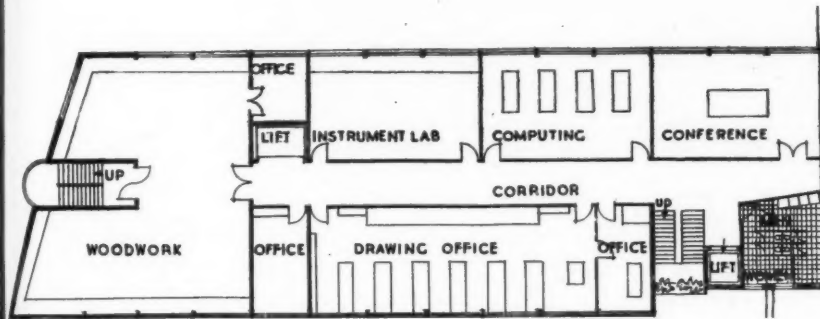
GROUND FLOOR PLAN

[Scale: 1/4" = 1'0"]

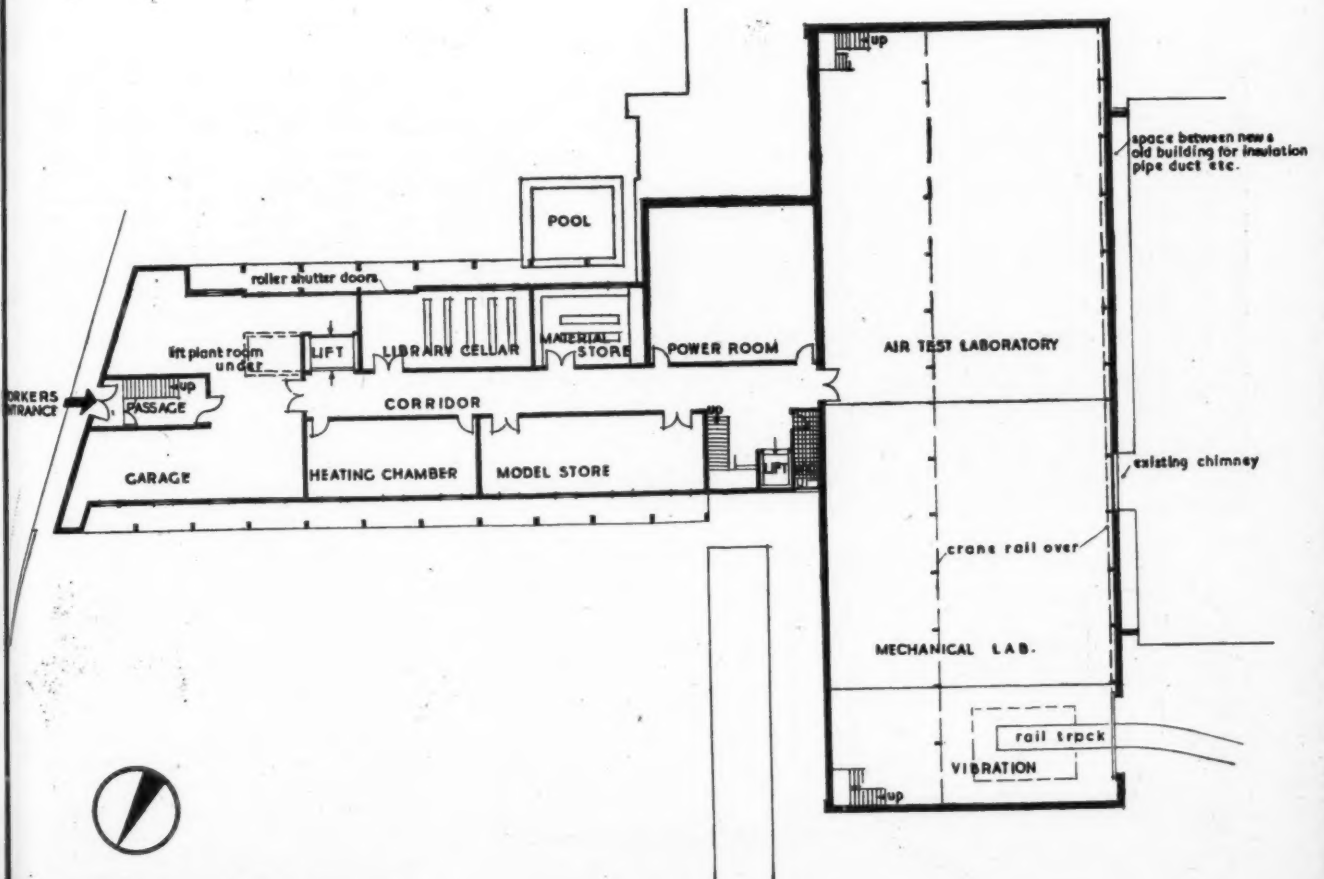




SECOND FLOOR PLAN



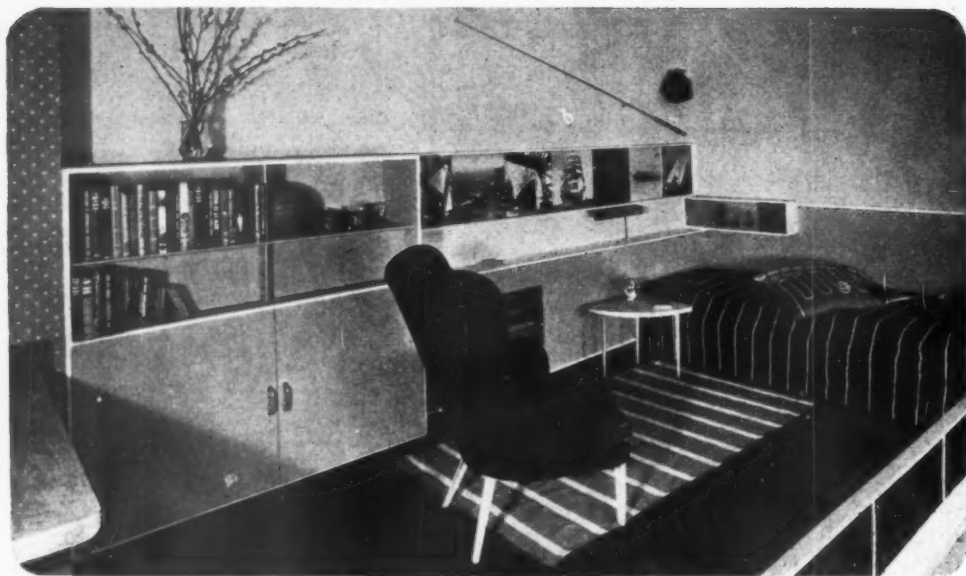
FIRST FLOOR PLAN



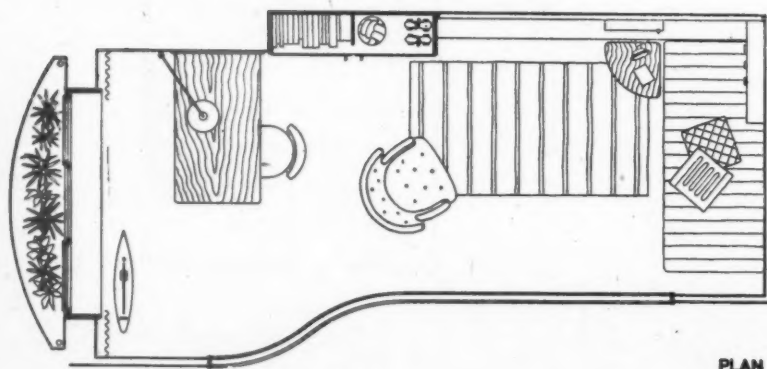
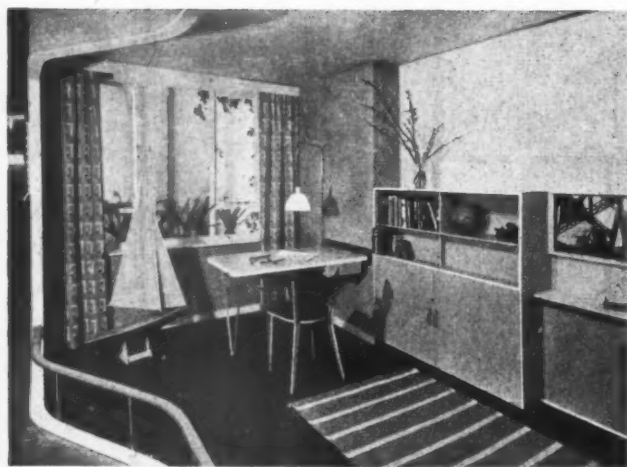
BASEMENT PLAN

[Scale:  $\frac{1}{8}" = 1'0"$ ]

The company are very conscious of the importance of settings not only for their laboratories but for the whole of their works, and they have engaged a landscape architect, Mr. G. P. Youngman, with whom the architect is working in close co-operation.



# A ROOM FOR A YOUTH DESIGNED BY JACK HOWE

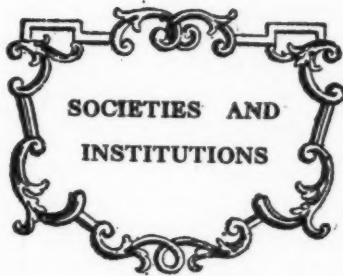


The object of this exhibition room, shown at the *Daily Herald* Modern Homes Exhibition at Dorland Hall, was to show how, under austerity conditions, an informal and cheerful setting can be produced with simple, and in many cases improvised, furniture and fittings.

A feature of interest is the continuous picture frame with removable glass behind which photographs, maps or sketches can be displayed and changed when desired. The background to the electric fire, which is continued round the wall behind the bed, is of ribbed asbestos sheeting above which is a low continuous shelf.

The lighting fitting over the table is made from a piece of bent copper tube fitting into a tube of larger diameter screwed to the wall, thus forming a swivel joint. The lamp is fitted with an industrial type plastic shade. The bed lamp consists of a striplight shaded with a length of curved copper sheet.

Curtains are plain unrationed fabric with a stencilled pattern, and the divan cover and cushions are of a similar material with a pattern of white and coloured piping machined on. The rug is of felt decorated with stripes of coloured webbing.



*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.*

ILA

## Christopher Tunnard

July 1. At 66, Portland Place, W.1. A lecture on TOWN AND COUNTRY LANDSCAPE, USA, by Professor Christopher Tunnard, Chairman of the Section of City Planning, Yale University.

**Christopher Tunnard:** Contrary to the popular opinion that Americans live exclusively in skyscrapers or Colonial cot-

tages, proof was given of the rich and varied tradition of building and landscaping in the United States for the past three hundred years, showing how Americans have questioned European styles and developed their own unique solutions to the problem of site and shelter. As an example, the English influence was indicated. The creation of "Anglo-American" landscapes in Virginia and along the Hudson River on an adaptation of the principles of Humphrey Repton and "Capability" Brown was shown to have established the pattern of rural improvement which America has followed from the time of Thomas Jefferson, who, among his many interests, may be considered the father of American architecture and landscape gardening.

A group of widely-varying communities—a great metropolis, a manufacturing town, a watering-place and a small country village—were analysed, the environmental standards and the changing taste and customs of each generation of inhabitants were illustrated. Present-day problems of physical planning and the attempts being made to re-plan American cities generally were discussed, and it was suggested that British planners could profit from the experience of America where entirely new communities in California and elsewhere were built during the war.

In conclusion a plea was made for the understanding of the American people and their institutions, which, as Matthew Arnold pointed out, was a pre-requisite to the appreciation of their arts and architecture. If their solutions to the problems of use and beauty in the landscape differed from Britain's it was because they were in the tradition of American democracy and one should not venture to criticise without a proper knowledge of its workings. Americans were justly proud of their contributions to the useful arts and this pride should be respected. An increasing cultural exchange between the two countries was highly desirable, not only on the university level, but among all types of artistic and professional activity—which would bring nothing but good on both sides of the Atlantic.

## RIBA

### Elections

June 24. At 66, Portland Place. At a general meeting of RIBA the following results of the annual elections to the Council were announced:

#### PRESIDENT

Sir Lancelot Keay, K.B.E., M.Arch. (Lvpl.), Liverpool (unopposed).

#### PAST-PRESIDENTS

H. S. Goodhart-Rendel.  
Sir Percy Thomas, O.B.E., D.L., J.P., Hon.L.L.D. (Cardiff) (unopposed).

#### MEMBERS OF COUNCIL

Elected		
1. E. Maxwell Fry	.. ..	1,698 votes.
2. C. G. Stillman	.. ..	1,679 "
3. L. C. Howitt (Manchester)	.. ..	1,428 "
4. Victor Bain (Leeds)	.. ..	1,187 "
5. John Swarbrick	.. ..	1,174 "
6. Michael Waterhouse, M.C., B.A. Oxon.	.. ..	1,140 "
7. A. C. Bunch (Leamington Spa)	.. ..	1,053 "
8. Percy J. Bartlett (Nottingham)	.. ..	843 "
Not Elected		
9. C. H. Aslin (Hertford).		
10. Edward Armstrong.		
11. C. H. James, R.A.		
12. Gordon Stephenson (Richmond, Surrey).		
13. Thomas E. Scott.		
14. George Fairweather.		
15. F. R. Steele (Chichester).		
16. J. Price Nunn (Manchester).		
17. J. S. Beaumont (Manchester).		
18. C. G. Kemp (Tewin, Herts.).		
19. C. E. Culpin.		
20. M. Hartland Thomas.		
21. A. E. Geens (Bournemouth).		
22. Major Basil C. Deacon (Bedford).		
23. Alfred H. Barnes (Croydon).		
24. T. J. Lynch (Sutton, Surrey).		
25. Colonel A. L. Abbott.		
26. J. F. Howes.		

#### ASSOCIATE MEMBERS OF COUNCIL

Elected		
1. Professor W. G. Holford, M.A., M.T.P.I.	.. ..	1,386 votes.
2. Professor J. S. Allen, B.Arch., M.T.P.I. (Newcastle-on-Tyne)	.. ..	1,246 "
3. Colin Penn	.. ..	1,083 "
Not Elected		
4. The Hon. Lionel G. B. Brett M.A. (Watlington, Oxon.).		
5. Arthur G. Ling.		
6. J. L. Martin, M.A., Ph.D.		
7. H. T. Cadbury-Brown.		
8. R. H. Matthew.		
9. Maurice E. Taylor (Cupar, Fife).		
10. W. J. Wynn (Banstead).		
11. W. Pollock (Loose, near Maidstone).		
12. Winston Walker.		
13. W. W. Fisk.		
14. C. L. Watson.		

#### LICENTIATE MEMBERS OF COUNCIL

Elected		
1. Bernard H. Cox, F.S.I.	.. ..	1,062 votes
Not Elected		
2. Bernard Widdows (Derby).		
3. C. Bertram Parkes, M.B.E. (Birmingham).		
4. Robert Bostock, M.A.		
5. Thomas Sibthorp (Woodford Green).		

## TPI

### Fred Marshall

June 19. At Livingstone Hall, Westminster, S.W.1. Address by Fred Marshall, M.P., Parliamentary Secretary to the Ministry of Town and Country Planning, on the NEW TOWN PLANNING LEGISLATION OF THE GOVERNMENT. Chairman, H. W. J. Heck.

**Fred Marshall:** Since 1939 there have been several Planning Acts, especially the 1944 Act, which may be regarded as a very useful piece of legislation, inasmuch as it introduced new principles into our Planning Code. By its Declaratory Order and the Designation of Areas to be developed as a whole and the public acquisition of those areas it considerably widened our conception of planning and paved the way for the New Towns Act and the present Bill. But it merely provides the machinery to do big things, not the means to carry them out.

In the New Towns Act for the first time in our history we can sit down and devise a new town from the beginning to the end. But it seems that whenever a place is mentioned as the site proposed for a new town, the public there say, "Try it on the other fellow first"; nevertheless the New Towns Act marks a considerable step forward in planning legislation.

In the present Town and Country Planning Bill the Government has tried to remedy all those defects and shortcomings in planning legislation which most planners have experienced in their local efforts. The New Towns Act and the present Planning Bill contains the essence of all our experience in planning and complete its development from a merely negative and restrictive code to a positive and actual one. The Bill is a vast, comprehensive and technical measure. Some of its provisions are couched in words of baffling complexity, but it is possible to outline in general terms a few of the important provisions of the Bill.

In the first place, the Bill secures a bigger planning unit and places planning responsibility where the financial resources exist to carry it out. It also gives power to the local authority to carry out the plan itself if and when necessary. Incidentally it reduces the number of planning authorities from 1,441 to 145. Secondly, it requires a survey to be made and a development plan to be prepared based on that survey. The development plan will be a forward-looking document, indicating the proposed development for a long time ahead. It is hoped that in that development plan will be shown all the Government requirements for a particular area. In short, a complete picture of the proposals for the local planning authority for 50 years ahead



Mr. Christopher Tunnard.



will be given. Thirdly, the Bill widens the powers of compulsory purchase and enables local authorities to purchase land shorn of its development value. This should be an inestimable boon to local authorities. Fourthly, refusal of permission for development under the Bill does not attract compensation to the proposer of development. Those who have been in local government service know of the constant bugbear of compensation in relation to land acquisition. Local authorities have often failed to do the things they ought to have done and have done things which they should not have done, because of compensation. The Bill also considerably strengthens the powers of local and central control. Much has been heard in the Report Stage of the Bill about control, but there is no inherent antagonism in the Bill between the Government and the local authorities in this matter. The provisions relating to control are designed to operate as a partnership between the Government and the local authorities. Again, the Bill lifts the vexed question of compensation and betterment out of planning altogether and sets up a Land Board to deal with this intricate and thorny problem. The Bill will also by Regulations exert control over advertisements and mineral workings, and in areas of blight, blight and overspill it will provide more generous grants to local authorities to enable them to proceed with the reconstruction of such areas with confidence that the Government are going to take a far greater share than in the past in the great reconstruction problems. Finally, on questions of amenity the Bill re-enacts the provisions of previous Acts, with the addition that the Minister himself can make orders for the preservation of trees and buildings.

RSI

## Donald A. Goldfinch

Health Congress of the Royal Sanitary Institute at Torquay. Among papers read were THE DESIGN AND LOCATION OF HEALTH CENTRES, by Donald A. Goldfinch, F.R.I.B.A., Chief Assistant Architect (Health), Leeds.

**Donald A. Goldfinch:** The design and construction of buildings to satisfy the needs of medical science, and the co-ordination of a service to create and maintain a healthy nation, are matters to which considerable study and attention has been devoted in recent years. History does not record such a campaign for physical fitness and health as that being made at the present time, and although an ever-increasing campaign to stamp out disease and to cure both by surgery and medicine has been continuing for centuries, it is only within the last two generations that careful and skilled thought has been given to the planning of buildings for the furtherance of this campaign.

With the future pattern of our health and hospital services revealed by the National Health Service Act, 1946, the health architect can visualise a vast programme of building that will not only call for his skill in hospital planning, but for considerable research and experimental design in the planning of centres to bring both health facilities and health education within reach of the people. In this respect the health architect must play his part in making the public health-conscious, and his designs must not only be the outcome of an intimate understanding of the medical need,

but also of a sociological survey of the prospective patients.

The planning and construction of a hospital or health centre should be an inspiring problem for any architect, and he must, in all his planning and scheming, remember that he is dealing, not merely with the buildings, but with sick people and those ministering to them, and this should be the dominating thought in his mind throughout the whole of his work. He will be required to subordinate mere architectural ideal to utilitarianism—in the functional planning for health services the latter is of far greater importance than the former.

In giving consideration to opportunities arising from the Act, perhaps the most important to the health architect is his rôle in the planning for the general development of the local authority health services and the presentation of their proposals, with the subsequent detail design of the health centres.

### THE DEVELOPMENT PLAN

Under part III, section 20, of the Act, the local health authorities will have to review and plan for their future part in the national service to include: maternity and child welfare, and domiciliary midwifery; facilities for vaccination and immunization; ambulance service for general health purposes; provision of a school health service under the Education Act, 1944; provision of accommodation for the general medical and dental practitioner services; organization and provision of domestic help, health visiting and home nursing, in addition to retention of their existing dental, sanitary, and epidemiological responsibilities.

In the preparation of such proposals, due consideration will have to be given to the provision and maintenance of health centres for the convenient location of many of these activities.

In the preparation of a general development plan for the health services to show the local health authority proposals, it is essential that the health architect should take his place in the planning team, as such a plan must be based on the principles of town and neighbourhood unit planning in addition to statistical fact and medical requirement.

Under the National Health Service Act it will be the duty of the local health authorities to provide and maintain health centres, both for their own activities and for the general practitioner services. It is in the planning and distribution of these centres that the health architect can make such a contribution to the future health of the nation, for there will be great opportunity for experiment in design and general arrangement. These health centres must provide facilities for diagnosis, treatment, and health education within easy reach of the homes of the people, and the optimum distance should be considered as three-quarters of a mile. Whereas the modern principles of town planning call for the development of neighbourhood units of eight thousand population, such principles must not bias the defining of health districts, as it is the maximum distance from the home that should be considered the guiding factor, together with the likely attendance rates that will arise from the population of such an area.

In the town planning of a city into neighbourhood units, full consideration will have been given to the communal needs of the population in the form of a community centre with shops, churches, branch library, swimming bath, hotel, cinema, and similar buildings, to cater for the physical, mental and spiritual recreational needs of the people. The population that will warrant the provision of such secular buildings may vary, but if present planning schemes may be taken as a guide, then each neighbourhood unit will embrace a population varying from six thousand to ten thousand. The

boundaries of these neighbourhood units will normally follow lines of demarcation, such as railways, main roads, green belts, and the limits of industrial zones.

Much has been said in recent months as to the population required to support one health centre, but as a result of applying the three-quarter mile radius, together with densities of population that will result from modern town planning methods, and careful analysis of tentative proposals prepared by the authorities of many of our larger cities, it would appear that one health centre may well serve a population of twelve thousand five hundred to sixteen thousand. This conclusion is further supported by reference to the Final Report of the New Towns Committee, which envisaged the provision of three or four health centres to serve a new town of fifty thousand inhabitants.

In some instances this will coincide with the population of one neighbourhood unit, while in other instances it may call for the combination of two such neighbourhoods to form the basic unit of health centre planning—the health district.

The siting of the health centre within the district must be related to ease of access, and availability of land of a suitable area. In order to make adequate provision for the possible requirement of the ambulance service, car parking, and the incorporation of lawns and children's play garden, a site of 1.75 to 2 acres net should be reserved for a district health centre, and a site of 2.50 to 3 acres net for a main health centre serving an area. Although this requirement may appear prohibitive, due to the high cost of land in redevelopment areas of large cities, the Town and Country Planning Bill, 1947, will facilitate such acquisition.

A further study of these health districts, in close relation to the ratio of cases referred to specialists for consultation, and with due consideration to the distance of these districts from the specialist facilities provided by the hospitals, may result in the decision to group several districts together as a health area with a total population calling for the provision of a health centre having additional accommodation for consultative sessions to be held by specialists of the hospital service. Where the location of such areas is found to be from two to four miles from a hospital centre, and the total population from fifty thousand to seventy-five thousand, one health centre should be selected for planning with these additional facilities as the main health centre, due consideration being given to such choice to transport facilities from the surrounding health districts for cases referred to the consultative sessions.

### PLANNING PRESENTATION

The proposals of the local health authority may be presented in planning form on a map of the city at a scale of three inches to one mile. The boundaries of the health districts should be shown, and all such districts should be coloured or hatched to represent their collective grouping as a health area. On this plan, the location and type of health centre should be indicated by symbols, together with reference to the population of each health area.

In order to prepare a more accurate record of site reservations, plans of each health area should be prepared on Ordnance Survey sheets to the scale of six inches to the mile, showing the sub-division into health districts, public transport routes, and health district populations.

When submitting the detail design of a health centre prepared for a specific health district, for consideration by the health committee, it has been found advantageous to show the site location on a plan of the health district to be served, also showing the area of housing encircled by radii of quarter, half, and three-quarters of a mile, respectively. This plan should be prepared to a scale of 1/2,500th.

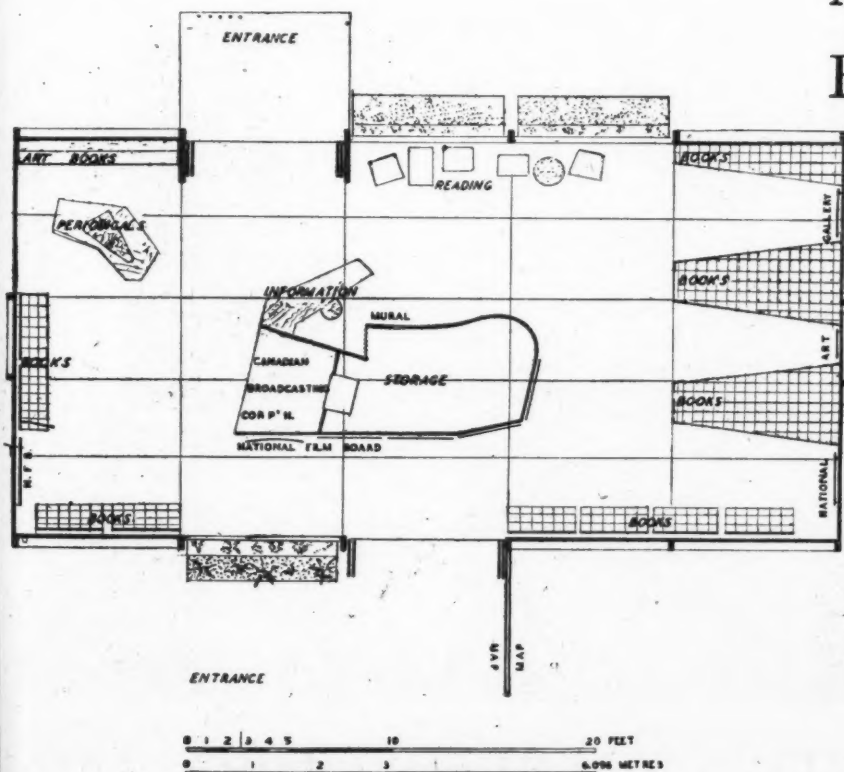
Other aspects of the paper covered design and construction of Health Centres.



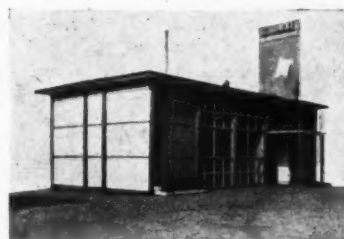


# CANADIAN PAVILION

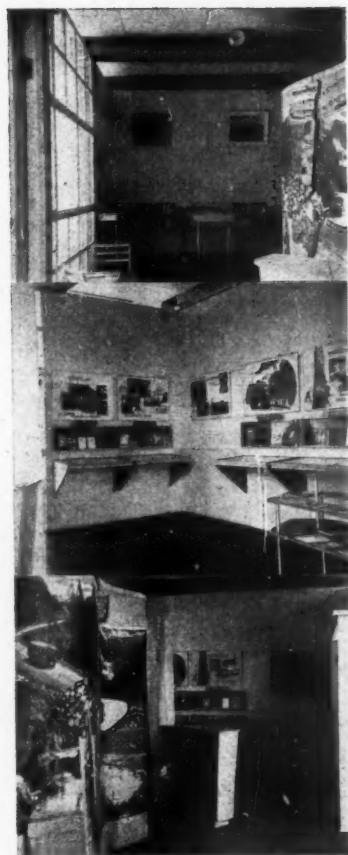
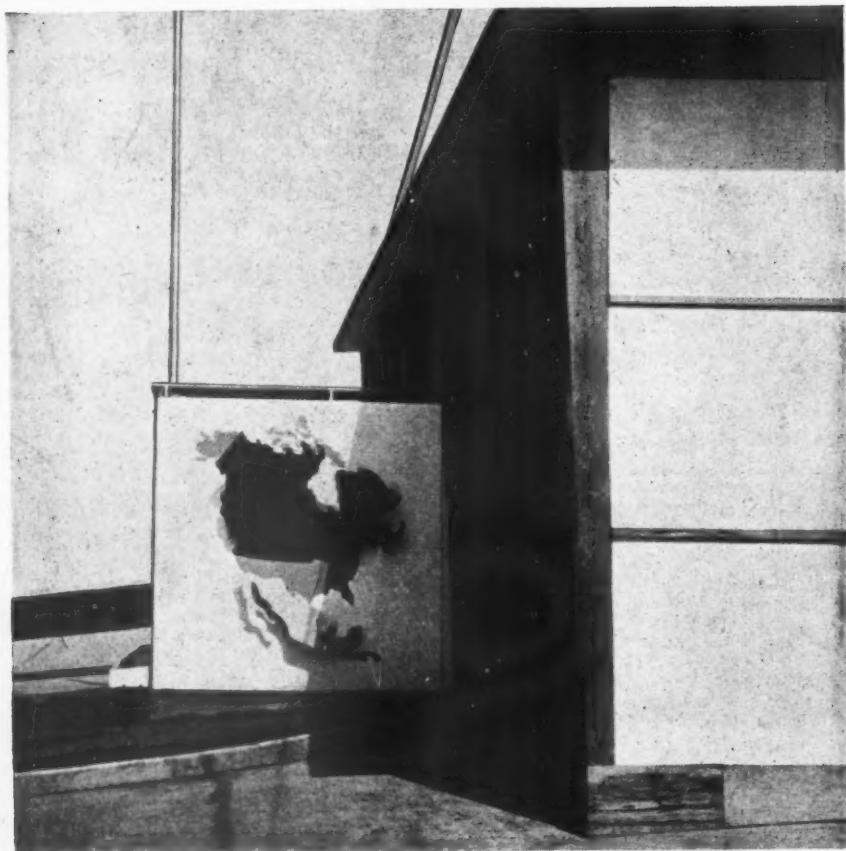
## AT MEXICO BOOK FAIR



DESIGNED BY  
ARNOLD WASSON  
TUCKER



Top, the Canadian sign and one of the other pavilions. Bottom, a general view of the Canadian pavilion.



In this pavilion were several hundred volumes of typical publications—some on special stands, others on shelves. There was also a display series of panels by the National Film Board depicting by text and photographs the people of Canada in various parts of the country and in various states of work and play. This display was supplemented by a booth describing the activities of the Canadian Broadcasting Corporation. The centre of the pavilion took the form of an irregularly shaped core which contained the information desk, and a large mural for tourist attraction. The pavilion was designed and built in Ottawa, and shipped to Mexico by truck. It consisted of a light form of construction based on a simple modular system of standard plywood panels and light laminated members of wood.

*Top, left, the map of Canada at the entrance. Right and bottom, four views of the interior.*



## CANADIAN PAVILION AT MEXICO BOOK FAIR

## TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

## INFORMATION CENTRE

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

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

### 2.12 planning: general INTERNATIONAL PLANNING

Final Report of the 18th Congress of the International Federation for Housing and Town Planning, Hastings, 1946. (The Federation, London, 1947, 10s.)

Examination of new plans for Exeter, County of London, Rotterdam, Liège and Warsaw. Discussion on housing economies and policy including increase in building costs, ownership and management, and methods for stimulating buildings. Decentralization and location of industry. Aspects of housing technique dealing with research, experimental buildings, and speeding-up of traditional constructional methods. Difficulties to be overcome in implementing planning schemes. Summaries of discussions. Interesting survey of present-day international trends of thought and policy towards housing and planning.

### 19.21 construction: details HANGAR DOOR

The Largest Door in the World. (Esavian Limited, Stevenage, Herts.)

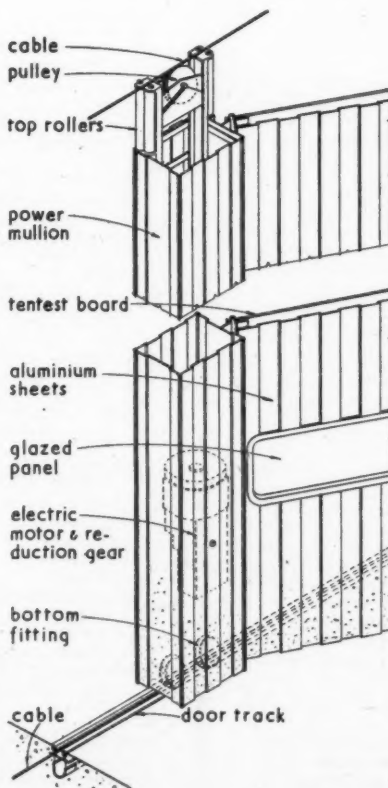
Sliding and folding doors enclosing an opening 1,045 ft. long, in 3 bays of 345 ft. each, 65 ft. 9 in. high.

A very large sliding and folding door is being erected at the new aircraft assembly hall at Filton, Bristol (see No. 20/11). It is an Esavian door, made up of a series of leaves of 5 ft. 6 in. width, hung in pairs on self-aligning hinges which are attached to

a sliding pilaster. The leaves are constructed from special extrusions of an aluminium alloy, combining light weight with great strength and resistance to corrosion. The extrusions are of deep channel form. The outer skin is also of aluminium alloy, with a series of shallow corrugations.

At the upper end the sliding pilasters are provided with guide rollers, running between guide rails. The rollers are of such a length as to provide for a vertical movement of the guides up to 1 ft. 6 in. Such a deflection may occur on the 345 ft. span of the hangar. The door folds outwards, it may be opened to and from the side and centre, and weighs only 220 tons complete. It has been designed for a wind pressure of 25 lb./sq. ft.

Doors of this type are suitable for openings of 30 to 75 ft. in height and up to any width. The length of track space does not increase with the width of the door.



Hangar doors spanning 345 ft. bays.  
See 19.21.

### 24.27 lighting

#### COLOUR: LIGHTING, DECORATION

Colour in Lighting and Painting. S. G. Hibben. (Lighting and Lamps [USA], January, 1947, p. 38.)

Effect of different sources on colours of decoration. Useful data.

This article is chiefly notable for some data on illumination. One table gives reflection factors for different surface finishes lighted from tungsten and fluorescent sources. Another shows the effect of dilutions of colours with various proportions of white. A third records opinions in respect of different colours seen under different light sources, and the last table gives opinions about human skin surfaces. The latter, of course, has a considerable practical importance, and it was found that "soft white" fluorescent gave the most preferred results, with tungsten next. The two "day-light" colours of fluorescent were found "fair" or "poor."

### 25.21 water supply and sanitation LAUNDRY EQUIPMENT

Future Development of Public Wash-houses. F. R. Botham. (The Surveyor, May 16, 1947, Vol. CVI, p. 255.)

Survey of design and equipment needs based on experience in Manchester. Conclusion that past provision of mechanical equipment has been inadequate and often of unsuitable design; headroom has been much too low and floor finishes unsatisfactory. Requirements of equipment for washing, water extraction, drying and ironing are discussed, and need for air-conditioning and heating to reduce humidity is stressed. A useful brief survey of some of the problems involved in the design of this special type of building.

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

## QUESTIONS AND ANSWERS

### 2900 CONTROL OF PROGRESS

Q. Can you give me any information on the subject of "Control of Progress" on public works, or building construction?

In case my meaning should not be clear to you from that brief description:—

In the central office controlling a number of works (or one large job) there has to be available a great variety of information about the works.

I wish to read about the systems of preparing (or "digesting") the information, statistically or graphically, so that it can be used as easily as possible.

A. The Ministry of Works has issued a pamphlet entitled:—Preparation of Charts for Civil Engineering and Building Contracts, obtainable from H.M. Stationery Office, York House, Kingsway, W.C.2.



# CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST,

Chartered Quantity Surveyors.

Rates of Wages last rose on January 1, 1946, and are now as follows:—

## LONDON DISTRICT

Within 12 miles radius .. .. .

From 12-15 „ „ .. .. .

## LIVERPOOL and DISTRICT

### Craftsmen.

### Labourers.

2s. 7½d.

2s. 1½d.

2s. 7d.

2s. 1d.

2s. 7½d.

2s. 1½d.

## GRADE CLASSIFICATIONS

A A¹ A² A³

Craftsmen.. 2s. 6d. 2s. 5½d. 2s. 5d. 2s. 4½d.

Labourers.. 2s. 0d. 1s. 11½d. 1s. 11½d. 1s. 11d.

*T. Davis*

F.S.I., F.I.Arb.

Prices vary according to quality and the quantity ordered.

Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

## CONCRETOR

### Cements

† All delivered in paper bags (20 to the ton) free.

\* Paper bags or non-returnable jute sacks charged at 7/- extra per ton or in returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton credit on return at 1/6 net per sack.

	6 Tons and over	In 80-ton freights F.A.S. Safe Wharf In River Thames, London Area.
*Portland .. .. .	per ton 55/-	52/6
*"417" Quick setting extra rapid hardening .. .. .	per ton 76/6	—
*Rapid hardening .. .. .	per ton 61/-	58/6
*Water repellent .. .. .	per ton 86/6	—
Atlas White (1 barrel 376 lb.) .. .. .	per barrel —	6 ton upwards
*Colorcrete rapid hardening, buff and red .. .. .	per ton 96/6	96/6
*Colorcrete rapid hardening khaki .. .. .	per ton 96/6	96/6
†Colorcrete .. .. .	per ton from 176/6 to 400/6	—
†Snowcrete .. .. .	per ton 226/6	—
Ciment Fondu, delivered Central London area .. .. .	1-9 10-19 1 ton and upwards	16/8 15/- per ton 238/-

### Aggregate and Sands (Full Loads)

2" Unscreened ballast .. .. .	per yard cube	14/5
½" (Down) Washed, crushed and graded shingle .. .. .	per yard cube	14/5
½" (Down) Ditto .. .. .	per yard cube	15/5
¾" Broken brick .. .. .	per yard cube	14/6
¾" Ditto .. .. .	per yard cube	16/-
Washed pan breeze .. .. .	per yard cube	10/6
Coke breeze 1" to dust .. .. .	per yard cube	—
¾" Sharp washed sand .. .. .	per yard cube	16/4
White Silver Sand for white cement (one ton lots) .. .. .	per yard	55/6

(For Sands for Bricklaying and Plastering see respective trades)

### Pavings

Brick hardcore .. .. .	per yard cube	6/6
Concrete ditto .. .. .	per yard cube	7/6
Clean furnace clinker and boiler ashes .. .. .	per yard cube	4/-
Coarse gravel for paths .. .. .	per yard cube	—
Fine ditto .. .. .	per yard cube	—

## CONCRETOR—(continued)

### Pavings—continued

Clean granite chippings (in 5 ton loads) .. .. .	per ton	40/10
Ditto (in 5 ton loads) (Immediate delivery) .. .. .	per ton	41/10
Red quarry tiles, 6" x 6" x ½" .. .. .	per yard super	9/9
Ditto 6" x 6" x ½" .. .. .	per yard super	8/8
Buff ditto 6" x 6" x ½" .. .. .	per yard super	10/11
Ditto 6" x 6" x ½" .. .. .	per yard super	9/9
Hard red paving bricks, 2" .. .. .	per 1,000	260/9
Ditto 1½" .. .. .	per 1,000	246/6

### Reinforcement

Home trade maximum basis price for mild steel rods, ½" diameter and upwards, ex mills delivered to station or siding .. .. .	per ton	£16 19 6
Extras for:—		
Under ½" to ¾" diameter .. .. .	per ton	10/-
Ditto ¾" and over ¾" diameter .. .. .	per ton	15/-
¾" and over ¾" diameter .. .. .	per ton	20/-
¾" and over ¾" diameter .. .. .	per ton	25/-
¾" and over ¾" diameter .. .. .	per ton	30/-
¾" and over ¾" diameter .. .. .	per ton	35/-
¾" diameter .. .. .	per ton	40/-
Under ½" to ¾" .. .. .	per ton	60/-
Lengths over 40 ft. to 45 ft. .. .. .	per ton	10/-
" " 45 ft. to 50 ft. .. .. .	per ton	15/-
" " 50 ft. (as 50 ft. plus per ft.) .. .. .	per ton	1/6

### Sundries

Retarding liquid, in 5-gallon drums (for exposing aggregate) .. .. .	per gallon	23/-
Ditto (for obtaining a bond) .. .. .	per gallon	14/4½
	Ex Warehouse, Southwark Bridge. Drums chargeable and credited, if returned.	

## BRICKLAYER

### Common Bricks

†Rough stocks .. .. .	per 1,000	—
†Third stocks .. .. .	per 1,000	—
†Mild stocks .. .. .	per 1,000	—
Sand limes .. .. .	per 1,000	—
†Phorpres pressed Flettons .. .. .	per 1,000	76/-
†Phorpres keyed Flettons .. .. .	per 1,000	72/-
Blue Staffordshire wirecuts .. .. .	per 1,000	—
†Lingfield engineering wirecuts (ex works) .. .. .	per 1,000	115/-
Firebricks, best Stourbridge 2½" .. .. .	per 1,000	445/-
Firebricks, best Stourbridge 3" .. .. .	per 1,000	532/6

### Facing and Engineering Bricks

Sand Limes, No. 1 .. .. .	per 1,000	—
Sand Limes, No. 2 .. .. .	per 1,000	—
†Phorpres rustic Flettons .. .. .	per 1,000	90/-
† At King's Cross (Maiden Lane) Stn. For delivery in W.C. district add 15/- per 1,000:		



## BRICKLAYER—(continued)

## Facing and Engineering Brick—continued.

2½" engineering bricks .. .. .	per 1,000	120/-
†Hard stocks, firsts .. .. .	per 1,000	—
†Hard stocks, seconds .. .. .	per 1,000	—
Sand-faced, hand-made reds .. .. .	per 1,000	—
Sand-faced, machine-made reds .. .. .	per 1,000 from 100/-	—
Red rubbers (9½-in.) .. .. .	per 1,000	—
†White facings .. .. .	per 1,000 from 100/-	—
Coloured facings (creams, buffs, browns & terra cotta) .. .. .	per 1,000 from 119/-	—
†Dunbriks (concrete), greys or Commons .. .. .	per 1,000	125/-
†Dunbriks (concrete), various colours .. .. .	per 1,000	145/-
†Southwater engineering No. 1 (first quality red pressed) .. .. .	per 1,000	192/6
†Southwater engineering No. 2 (second quality red pressed) .. .. .	per 1,000	167/6
Blue pressed .. .. .	per 1,000	—
†Southwater pressed sandfaced reds .. .. .	per 1,000	172/6
†Dorking pressed sandfaced multi-coloured facings .. .. .	per 1,000	151/-
†Plus 1/6 per 1,000 levy—Prices ex works—Haulage extra.		

## Limes and Sand

	1-ton lots	6-ton lots
Lime, greystone .. .. .	per ton	79/9
Lime, chalk .. .. .	per ton	79/9
Lime, blue Lias (including paper bags) .. .. .	per ton	—
Lime, hydrated (including paper bags) .. .. .	per ton	84/6
Washed pit sand .. .. .	per yard cube	16/4

(For cements, see "Concretor.")  
Hire of jute sacks charged at 1/6 and credited at 1/6. If left charged at 1/9.

## Sundries

Wall ties, self coloured .. .. .	per cwt.	—
Wall ties, galvanized .. .. .	per cwt.	—
D.P.C. slates, size 14" x 9" .. .. .	per 100	46/6
D.P.C. slates, size 14" x 4½" .. .. .	per 100	14/6
†Ledkore D.P.C. Grade A .. .. .	per foot super	11d.
†Ledkore D.P.C. Grade B .. .. .	per foot super	1/3d.
†Ledkore D.P.C. Grade C .. .. .	per foot super	—
† Trade discount 7½ per cent. and cash discount 2½ per cent. Prices include delivery on minimum of £5 orders.		

Airbricks:	9" x 3"	9" x 6"	9" x 9"	12" x 9"	14" x 9"
Red and buff terra cotta .. .. .	each 1/-	1/10	4/10	—	12/11
Black cast iron, School 9" x 3" .. .. .	—	9" x 6"	9" x 9"	12" x 6"	12" x 9"

Board pattern airbricks .. .. .	per doz.	—	—	—	—
Galvanized ditto per doz. .. .. .	—	—	—	—	—
Black hit and miss cast iron ventilators .. .. .	per doz.	—	—	—	—

Buff terra cotta chimney 1' 0" .. .. .	1' 6"	2' 0"	2' 6"	3' 6"	5' 0"
pots .. .. .	each 4/9	5/8	8/2	10/10	24/11
Fireclay .. .. .	per ton	97/-	—	—	—

Wall reinforcement supplied in standard rolls containing 25 yards lin.	2" wide black japanned .. per roll	2/10½	} Greater widths pro rata 2½ price carriage paid on orders of £7. Discounts for quantities.
2" wide galvanized .. per roll	—	—	
2½" wide black japanned .. per roll	3/6½	—	
2½" wide galvanized .. per roll	—	—	

## Partitions, etc.

Clinker .. .. .	per yard super	3/2	3/8	4/2	5/3
Pumice .. .. .	per yard super	7/3	—	—	—
Hollow Block .. .. .	per yard super	3/1	3/4	4/-	4/7
Plaster .. .. .	per yard super	6/4	7/1	8/2	10/6
†1" Wood-wool Slabs .. .. .	per yard super from	4/2 to 4/10	—	—	—
†2" Wood-wool Slabs .. .. .	per yard super from	6/7 to 7/6½	—	—	—
†3" Wood-wool Slabs .. .. .	per yard super from	8/6 to 9/8½	—	—	—

† Prices according to quantity ordered. 2½% Cash Discount.

## Gas Flue Blocks

	Single Flues.	Double Flues.
Straight blocks .. .. .	each 2/2	3/8
Backing block .. .. .	per set of 3 4/11	9/1
Cover blocks .. .. .	each 3/2	5/8
Raking blocks 45° .. .. .	each 4/8	7/7
Raking blocks 60° .. .. .	each 3/6	5/3
Offset blocks .. .. .	each 5/10	8/7
Closer blocks .. .. .	each 2/2	3/8
Closer flashing blocks .. .. .	each 1/10	2/10
Straight flashing blocks .. .. .	each 1/10	2/10
Terminal and cap .. .. .	per set 9/7	15/7
Middle terminal and cap .. .. .	per set 9/4	14/11
End terminal and cap .. .. .	per set 9/7	15/6
Corbel block .. .. .	each 7/10	15/1
Gathering block .. .. .	each —	7/9

## DRAINLAYER

## Land Drain Pipes

	2"	3"	4"	6"
Pipes in 12" lengths .. .. .	per 1,000 99/6	138/6	179/-	372/-
(Delivered in full loads Central London Area.)				

## Salt Glazed Stoneware Pipes and Fittings

	4"	6"	9"
Pipe (2' lengths) .. .. .	each 1/8	2/6	4/6
Bends, ordinary .. .. .	each 2/6	3/9	6/9
Single Junction, 2' long .. .. .	each 3/4	5/-	9/-
Yard Gully, without grating .. .. .	each 6/3	6/10½	11/3
Ordinary round or square Grating, painted .. .. .	each -7½	1/3	2/6
Ordinary round or square Grating, galvanized .. .. .	each 1/0½	2/1	4/4½
Extra for Inlets, horizontal .. .. .	each 1/6	1/6	1/6
Extra for Inlets, vertical .. .. .	each 2/3	2/3	2/3
Intercepting Trap with Stanford Stopper .. .. .	each 17/6	22/6	37/6
Grease and mud interceptor with bucket for removing silt and grease for 6", 9" and 12" drains, with iron grating, painted .. .. .	each 20/-		
Ditto, with iron grating galvanized .. .. .	each 21/10½		

The above prices to be varied by the following percentages for the different qualities given. All subject to 2½ per cent. cash discount.

	British Standard	British Standard Tested
Orders for 2 tons and over .. .. .	Plus 40%	Plus 65%
Orders under 2 tons, 100 pieces upwards .. .. .	Plus 57½%	Plus 82½%
Orders under 2 tons, less than 100 pieces .. .. .	Plus 67½%	Plus 92½%

	Best	Seconds
Orders for 2 tons and over .. .. .	Plus 32½%	Subject to 15% off the price of best quality for all sizes.
Orders under 2 tons, 100 pieces upwards .. .. .	Plus 50%	
Orders under 2 tons, less than 100 pieces .. .. .	Plus 60%	

## Cast Iron Drain Pipes and Fittings

Socket and Spigot Pipes:—	Weight (per 9 ft.)	Size	9 ft.	6 ft.	4 ft.	3 ft.
1. 1. 8	4" per yard ..	9/9	10/10	17/5	13/2	—
1. 1. 17	4" per yard ..	10/2	11/2	17/10	13/8	—
2. 0. 1	6" per yard ..	15/-	17/11	28/10	23/-	—
3. 3. 21	9" per yard ..	27/3	35/9	62/-	47/4	—
		2 ft.	18 ins.	12 ins.	9 ins.	—
1. 1. 8	4" each ..	10/10	—	—	—	—
1. 1. 17	4" each ..	11/1	—	—	—	—
2. 0. 1	6" each ..	17/4	—	—	—	—
3. 3. 21	9" each ..	—	—	—	—	—

## Tonnage Allowances:—

Orders up to 2 tons nett.  
Orders 2 to 4 tons less 2½%.  
Orders 4 tons or over less 5%.

	4"	6"	9"
Bends (short radius) .. .. .	each 9/8	20/-	61/7
Single junctions .. Fig. No. 18 .. .. .	each 16/11	34/8	106/3
Intercepting traps .. .. .	each 46/3	77/-	189/5
Gulleys ordinary trapped "P" .. .. .	each 22/4	—	—
Extra for vertical back inlet 4" .. .. .	each 6/7	—	—
Grease Gully trap .. .. .	each 188/-	—	—
H.M.O.W. large socket gully trap with 9" gully top and heavy grating and one back inlet .. .. .	each 43/5	73/10	—

Drain pipes 6' and under and all fittings plus 5% extra moulding costs.

## Channels in Brown Glazed Ware

	4"	6"	9"
Half round straight channels 24" long .. .. .	each 1/3	1/10½	3/4½
Half round straight channels 30" long .. .. .	each —	—	4/2½
Ditto, short lengths .. .. .	each 1/3	1/10½	—
Half round ordinary channel bends .. .. .	each 1/10½	2/9½	5/0½
Ditto, short .. .. .	each 1/10½	2/9½	—
Ditto, long .. .. .	each 3/9	5/7½	10/1½
Three-quarter round branch bends .. .. .	each 5/-	7/6	—
Half round taper channels 24" long .. .. .	each 3/9	6/9	—
Half round taper channel bends .. .. .	each 4/8½	8/5½	—

The above prices are subject to the same discounts as those given for "Best" quality salt glazed stoneware pipes.

## Manhole Covers, etc.

	Black Galvanized
†24" x 18" single seal for foot traffic. (Weight 0.3.0 cwts. in lots of 24) .. .. .	each 40/6
†24" x 18" single seal for light car traffic. (Weight 2 cwts. in lots of 24) .. .. .	each 107/9
24" x 18" all steel manhole cover .. .. .	each 50/-

## DRAINLAYER—(continued)

## Manhole Covers, etc.—(continued)

	Fine Cast	Galv.
Malleable iron steps, for 9" brickwork approximate weight $4\frac{1}{2}$ lb. each .. ..	—	72/-
Galvanized fresh air inlets with cast brass fronts (L.C.C. pattern) .. .. each	4" 11/-	6" 46/3

## MASON

## Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes .. ..	per foot cube	7/5
Add for blocks to dimension sizes .. ..	per foot cube	10d. (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) .. ..	per foot cube	8/3
Templates with sawn beds, sawn one edge, .. ..	per foot cube	9/11
Templates with sawn beds, sawn two edges, per foot cube		11/7
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads.)		31/4

## Artificial Stone

6" x 3" Copings and sills .. ..	per foot run	2/6 $\frac{1}{2}$
6" x 6" Copings and sills .. ..	per foot run	3/11
9" x 3" Copings and sills .. ..	per foot run	3/0 $\frac{1}{2}$
9" x 6" Copings and sills .. ..	per foot run	5/7 $\frac{1}{2}$
12" x 3" Copings and sills .. ..	per foot run	3/11
12" x 6" Copings and sills .. ..	per foot run	6/8 $\frac{1}{2}$
Cornices according to detail, per foot cube (from)		12/1

## SLATER, TILER AND ROOFER

## Best Bangor Slates

	£	s.	d.
24" x 12" .. ..	per 1,000 actual	—	—
20" x 10" .. ..	per 1,000 actual	—	—

Prices include for delivery to site in lots of 1,000 and upwards.

## Tiles

Basic for Hand-made sandfaced 10 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " red roofing tiles	per 1,000	171/-
Machine-made sandfaced 10 $\frac{1}{2}$ " x 6 $\frac{1}{2}$ " red roofing tiles	per 1,000	—
Berkshire rustic pantiles .. ..	per 1,000	—

## Asbestos-cement

* 1" corrugated sheets, grey .. ..	per yard super	3/5
* Standard 3" corrugated sheets, grey .. ..	per yard super	3/1 $\frac{1}{2}$
Slates (Manufacture temporarily suspended) :—		
* 15 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " grey .. ..	per 1,000	£7 6 0
* 15 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " diagonal, grey .. ..	per 1,000	£14 12 0
* 15 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " diagonal, russet or brindled .. ..	per 1,000	£23 12 6
Pantiles (Manufacture temporarily suspended).		
* Large russet brown .. ..	per 1,000	—
* Prices are for minimum two-ton loads, and are subject to 5% trade discount and 2 $\frac{1}{2}$ % cash discount.		

## WALLBOARDS, Etc.

	Up to 5,000 sq. ft.	5,000 to 20,000 sq. ft.
1" Insulation Board .. ..	per yard super 3/4 $\frac{1}{2}$	per yard super 3/2 $\frac{1}{2}$
1" Hardboard .. ..	per foot super 5 $\frac{1}{2}$ d.	per foot super 5 $\frac{1}{2}$ d.
1" Ditto .. ..	per foot super 7 $\frac{1}{2}$ d.	per foot super 7 $\frac{1}{2}$ d.

## Laminated Wallboard

1" Thickness (standard):		
1 bundle up to 2,500 sq. ft. .. ..	per foot super	-2 $\frac{1}{2}$ d.
2,500 sq. ft. to 5,000 sq. ft. .. ..	per foot super	-2 $\frac{1}{2}$ d.
5,000 sq. ft. and over .. ..	per foot super	-2 $\frac{1}{2}$ d.

## Asbestos-cement and Asbestos Products

1 $\frac{1}{2}$ " Semi-compressed flat building sheets, grey .. ..	per yard super	—
1 $\frac{1}{2}$ " Ditto .. ..	per yard super	1/7
1 $\frac{1}{2}$ " Ditto .. ..	per yard super	2/3 $\frac{1}{2}$
* Prices are for orders of two tons and over and are subject to 5% trade discount and 2 $\frac{1}{2}$ % cash discount.		
* 1" Asbestos wallboard (in sheets 8' 0" x 4' 0") .. ..	per foot super	-1/5
* 1 $\frac{1}{2}$ " Ditto .. ..	per foot super	-4
* 1 $\frac{1}{2}$ " Asbestos wood (in sheets 8' 0" x 4' 0") .. ..	per yard super	2/6 $\frac{1}{2}$
* Prices are for orders of 2 tons and over and are subject to 2 $\frac{1}{2}$ % cash discount.		

## WALLBOARDS, Etc.—(continued)

## Asbestos-Cement and Asbestos Products—(continued)

1" Asbestos Insulating Board	.. ..	per foot super	—	Over
		25-75	150-300	600
		yards	yards	yards
1" Fireproof plaster board	per yard super	2/6	2/2	1/10
1" Ditto	.. .. per yard super	2/4	2/-	1/8
2" Paper Faced Linen Tape	per 100 yard roll	—	—	5/-
Joint filler	.. .. per lb.	—	—	-4

## Sundries

Slates or sarking felt .. ..	per yard run	-1/11
Roofing felt (1-ply bitumen) .. ..	per yard sup.	1/3
Bituminous hair felt .. ..	per roll	69/-

All rolls 25 yards long by 32" wide.

"Sisalkraft" standard grade .. ..	per. yard super	-6
"Sisalkraft" subsoil grade .. ..	per. yard super	-3 $\frac{1}{2}$
"Cabots" Quilts :—(Ex Works) Twenty roll lots delivered carr. free		
Double ply .. ..	per roll	—
All rolls 28 yards long by 36" wide. Special terms for quantities.		
"Fibreglass" sound deadening quilt .. ..	per yard super	—
	Up to 500 yds.	Over 500 yds.
Light grade .. ..	1/11	1/10 $\frac{1}{2}$
Medium grade .. ..	2/4 $\frac{1}{2}$	2/3 $\frac{1}{2}$
In rolls 27 yards long by 36" wide.		
"Fibreglass" bitumen bonded mats .. ..	per yard super	1/4
in standard rolls .. ..		
In rolls 10, 12 $\frac{1}{2}$ , 15 yards long by 33", 36", 42", 45", 48" wide.		
Cut steel clasp nails .. ..	1" per cwt.	48/3
" .. floor brads .. ..	2"	40/6
Bright oval wire nails .. ..	1"	47/9
Galvanized wire staples with slice cut points .. ..	1" x 12 gauge per cwt.	60/9
Scotch glue .. ..	per cwt.	—

## STEEL AND IRONWORKER

## Steelwork

	£	s.	d.
Basis price for rolled steel joists sections			
5" x 3" to 16" x 6", in 10 ft. to 50 ft. lengths	ex mills	16	12 0
	per ton		

## PLASTERER

## Plaster and Cement

	1-ton loads	6-ton loads
Sirapite (coarse) .. ..	per ton 91/6	82/6
" (fine) .. ..	per ton 99/6	90/6
Victorite No. 1 (White) .. ..	per ton —	—
" No. 2 (Buff) .. ..	per ton —	—
Thistle (browning) .. ..	per ton 91/6	82/6
Pink plaster .. ..	per ton 90/9	
White plaster .. ..	per ton 100/3	
Keene's pink .. ..	per ton 151/-	
Keene's white .. ..	per ton 157/3	
Gypstone .. ..	per ton 70/6	
Glastone .. ..	per ton 73/-	
Paristone (haired) .. ..	per ton 73/-	
Cullamix (Tyrolean Finish) 1 ton lots and upwards	per ton from 149/-	to 182/6

## Sundries

Sharp washed sand .. ..	per yard cube	16/4
Cow hair .. ..	per cwt.	84/6
Goat's hair .. ..	per cwt.	102/6
Expanded metal lathing, 9' 0" x 2' 0" x $\frac{1}{8}$ " mesh x 26 gauge .. ..	per sheet	4/4
Wire Slate nails (galvanized) 1 $\frac{1}{2}$ " x 15 gauge .. ..	per cwt.	68/11
" " (bright wire) .. ..	per cwt.	—

	25-150 yards	150-300 yards	Over 600 yards
1" Plaster board (plaster base) .. ..	per yard super	2/1	1/9
1 $\frac{1}{2}$ " Galvanized nails .. ..	per cwt.	63/4	
Hessian Scrim cloth in 100-yard rolls 3 $\frac{1}{2}$ " wide .. ..	per roll	7/6	

## Wall Tiles

The following prices are subject to 75 per cent. addition:

Standard quality.		
White, glazed 6" x 6" x $\frac{1}{2}$ " .. ..	per yard super	8/6
Cream " " " " .. ..	per yard super	9/-
Angle beads (1 $\frac{1}{2}$ " wide) .. ..	per yard run	1/1
Rounded edge tiles (white glazed) .. ..	per yard run	1/8
" " (cream glazed) .. ..	per yard run	1/9
Coloured enamelled bright glazed,		
6" x 6" x $\frac{1}{2}$ " .. ..	per yard super	14/3
Angle beads (1 $\frac{1}{2}$ " wide) .. ..	per yard run	1/2
Rounded edge tiles .. ..	per yard run	2/9
Eggshell matt enamelled, 6" x 6" x $\frac{1}{2}$ " .. ..	per yard super	15/-
Angle beads (1 $\frac{1}{2}$ " wide) .. ..	per yard run	1/4
Rounded edge tiles .. ..	per yard run	2/10

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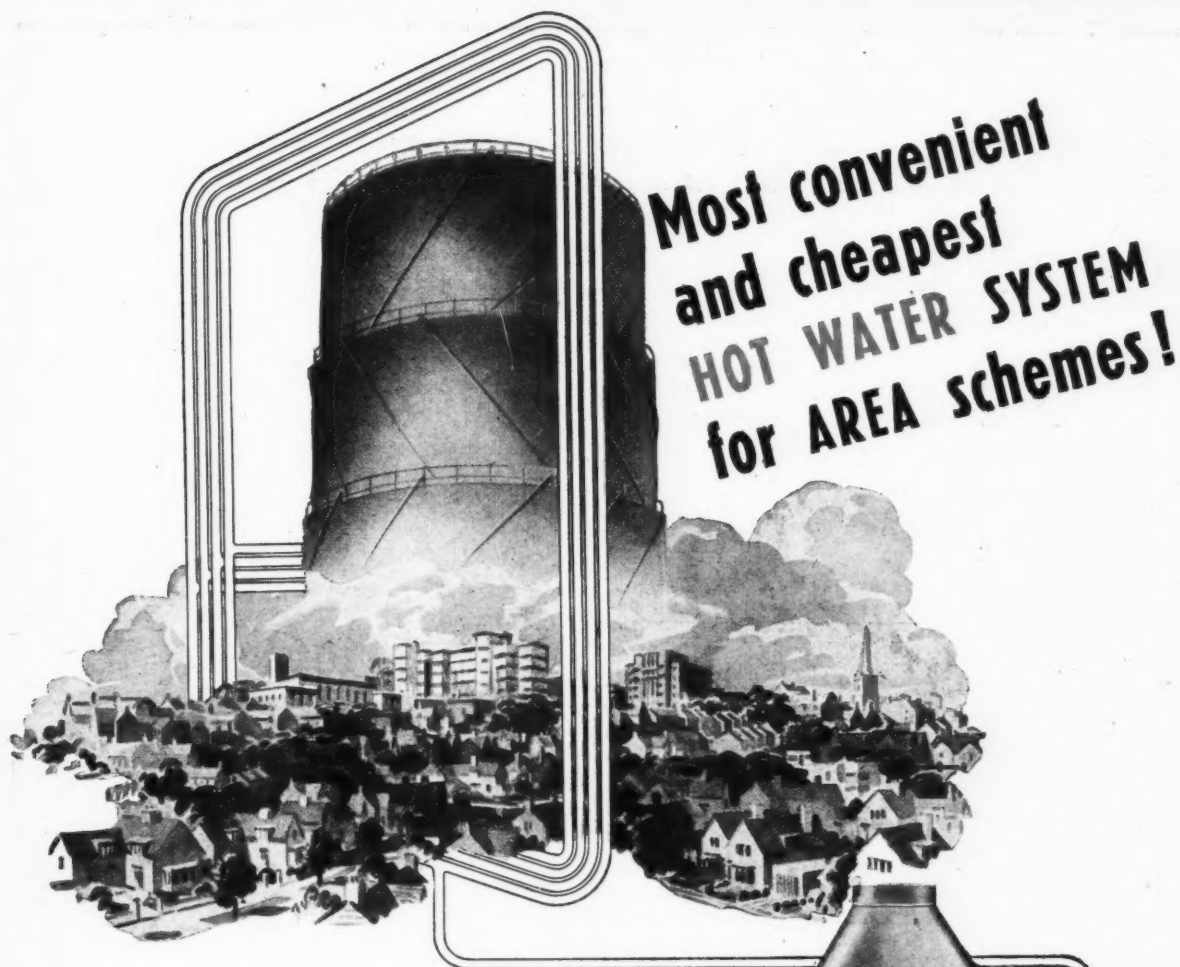
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From "Gasworks-to-Geyser" provides the cheapest and most convenient District System of piped hot water. Pipe the gas from the works to the home and there turn it into an *INSTANT* and *CONSTANT* hot water supply. The most economic way of using coal for heating is to turn it into GAS (This conserves many essential by-products). The Geyser—bath, multipoint or sink—only burns gas to heat the exact amount of water wanted at any time. Remember, there is a Ewart Geyser to suit every *NEED*.

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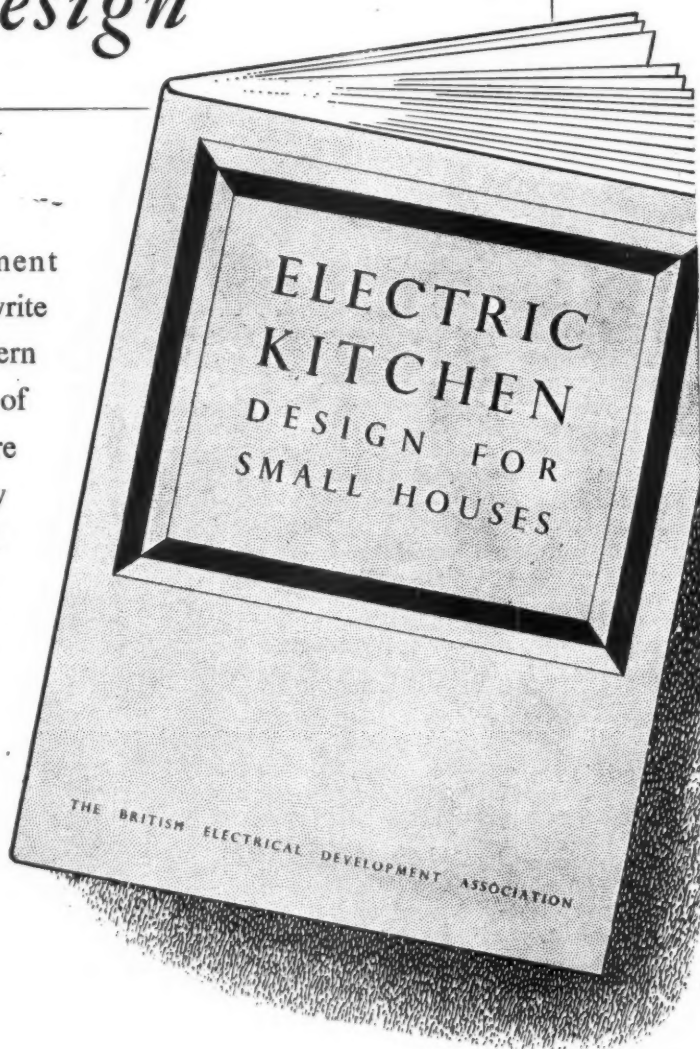
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xxxix

## FREE TO ARCHITECTS . . .

### *This new book on kitchen design*

The Electrical Development Association invites architects to write for this new publication on modern domestic planning. Descriptions of current electric kitchen equipment are given in detail, together with many examples of both good and bad designs. The book is fully illustrated and contains valuable information on the many new applications of Electricity for the home. Architects should apply for free copies by writing directly to the London Office of the Association.



BRITISH ELECTRICAL DEVELOPMENT ASSOCIATION • 2 SAVOY HILL • LONDON • WC2

## PLUMBER

## Lead

3½ lb. and upwards milled sheet lead in quantities of 5 cwt. to 1 ton in sheets .. ..	per cwt.	106/9
Lead ternary alloy, No. 2 quality extra over sheet lead or lead pipe .. ..	per cwt.	13/6
Allowance for old lead delivered to merchant or manufacturer .. ..	per cwt.	83/3

## Cast Iron Goods

Percentage Adjustment.  
on List No. 3100 A.B.  
1/2/40

Rainwater Goods (painted or unpainted) ..	Plus 54%
Soil goods (coated or uncoated) ..	Plus 54%

## Mild Steel Rainwater Goods

The following prices for Pipes and Fittings are subject to 65 per cent. addition, and Gutters are subject to 57½ per cent. addition.

24 gauge rainwater slip jointed pipes.	2"	2½"	3"	3½"	4"
Galvanized round pipes with ears .. .. per 6' 0"	2/7½	3/1½	3/9	4/3	4/9
Painted round pipes with ears .. .. per 6' 0"	2/4½	2/9	3/1½	3/7½	4/-
Painted or galvanized short lengths with ears, extra each	-/6	-/6	-/6	-/6	-/6
18 Gauge gutters.	3"	3½"	4"	4½"	5"
Galvanized half round gutters .. .. per 6' 0"	2/-	2/3	2/4½	2/9	3/-
Painted half round gutters .. .. per 6' 0"	1/6	1/9	2/-	2/3	2/6
Painted or galvanized short lengths extra each	-/3	-/3	-/3	-/3	-/3

## Asbestos-Cement Rainwater Goods

The following prices are subject to 12½ per cent. trade discount and 2½% cash discount.

Orders over £30 are subject to 17½ per cent. trade discount and 2½% cash discount.

## Rainwater Pipes.

Prices are for 6' 0" lengths, but 10' 0" lengths are available in 2", 2½", 3" and 4" diameters at same prices. Short lengths up to 2' 0" are charged as 1 yard. From 2' 0" to 4' 0" charged as 1½ yards. From 4' 0" to 6' 0" charged as 2 yards. Over 6' 0" charged as 10' 0".

## Round pipes

2"	per yard run	2/3½
2½"	per yard run	2/6½
3"	per yard run	3/1
4"	per yard run	4/2½
5"	per yard run	7/1½
6"	per yard run	8/10½

## Gutters.

Short lengths of gutter up to 2' 0" charged as 1 yard; from 2' 0" to 4' 0" as 1½ yards, and over 4' 0" as 2 yards.

Half round gutters	3"	4"	4½"	5"	6"	8"
per yard run	1/7½	1/11½	2/-	2/4½	3/3½	4/1
Ogee gutters per yard run	—	2/4½	2/6½	3/1	3/9	4/10½

## INTERNAL PLUMBER

Lead pipe in coils, 5 cwt. and upwards ..	per cwt.	108/-
Lead soil pipe .. ..	per cwt.	111/-
Add if ribbon marked .. ..	per cwt.	-/3
Lead ternary alloy, No. 2 quality extra over lead pipe ..	per cwt.	13/6
Plumber's solder .. ..	per cwt.	267/6
Tinman's solder .. ..	per cwt.	320/-
Drawn lead traps with brass screw eye, 6 lb.		

S. trap .. .. each	4/3	5/-	6/-	8/11
P. trap .. .. each	3/9	4/1	5/2	7/2
Extra for 3" deep seal "S" trap each	1/1	1/3	1/5	1/9
Extra for 3" deep seal "P" trap each	-/9	-/10	-/11	1/3

## Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.

Tubes.						
Tubes 2 ft. long and over	½"	¾"	1"	1½"	2"	2½"
per ft.	-/5½	-/6½	-/9½	1/1	1/4½	1/10
Pieces 12" to 23½" long						
each	1/1	1/5	1/11	2/8	3/4	4/9
Bends .. .. each	-/11	1/2	1/7½	2/7½	3/2	5/2
Fittings.						
Elbows, square	each	1/1	1/3	1/6	2/2	2/7
Elbows, round	each	1/2	1/5	1/8	2/4	2/10
Tees .. .. each	1/3	1/7	1/10	2/6	3/1	5/1
Crosses .. .. each	2/9	3/3	4/1	5/6	6/7	10/6
Socket, plain .. .. each	-/4	-/5	-/6	-/8	-/10½	1/3
Socket, diminished						
each	-/6	-/7	-/9	1/-	1/4	2/-

## INTERNAL PLUMBER—(continued)

Screwed and Socketed Steel Tubes and Fittings for Gas, Water and Steam, etc.—(continued)

Flanges .. .. each	1½"	1½"	1½"	1½"	2"
Caps .. .. each	-/5	-/6	-/8	1/-	1/3
Plugs .. .. each	-/4	-/5	-/6	-/8	-/10

Fittings and flanges and tubes ordered in long random lengths are subject to the following trade discounts:—

	Tubes	Fittings	Flanges
"Light Weight" .. ..	46½%	27%	16½%
"Heavy Weight" .. ..	39½%	19½%	4%

## COPPERSMITH AND ZINC WORKER

## Copper

Hot rolled copper sheeting in 5-cwt.

lots .. ..	16 wire gauge	per lb.	1/10
Ditto .. ..	24 wire gauge	per lb.	2/0½
Copper wire, 10, 12 and 14 gauge .. ..		per lb.	1/10½
Copper nails .. ..		per lb.	1/11

## GLAZIER

Sheet Glass, cut to size (ordinary glazing quality)

For quantities exceeding 500 ft. super.

24 oz. .. ..	per foot super	5½d.
26 oz. .. ..	per foot super	6½d.
32 oz. .. ..	per foot super	8½d.

Polished Plate glass, ordinary substance, approximately ¼" :—

In plates not exceeding:	Glazing quality	Selected glazing	Silvering quality
2 ft. super .. ..	per foot super	2/5	2/7
3 ft. super .. ..	per foot super	2/9	3/2
5 ft. super .. ..	per foot super	3/-	3/8
*45 ft. super .. ..	per foot super	3/8	4/-
*100 ft. super .. ..	per foot super	4/5	5/7

\* Extra sizes, i.e., plates exceeding 100 ft. super or 160 inches long, or 100 inches wide, at higher prices.

¼" figured rolled and cathedral—untinted	7½d.	per foot super
¼" rolled plate .. ..	10½d.	per foot super
¾" or 1" rolled plate .. ..	6½d.	per foot super
¾" or 1" rough cast .. ..	7½d.	per foot super
Prismatic .. ..	1/2½d.	per foot super
¾" wired cast .. ..	9½d.	per foot super
¾" Georgian wired cast .. ..	10½d.	per foot super
¾" polished wired .. ..	3/6d.	per foot super
¾" wired arctic .. ..	1/8d.	per foot super

## Hollow glass blocks:—

P.B.2. 5½" × 5½" × 3½"	2/6 each
P.B.3. 7½" × 7½" × 3½"	3/6 each
P.B.32. 7½" × 7½" × 3½"	3/6 each

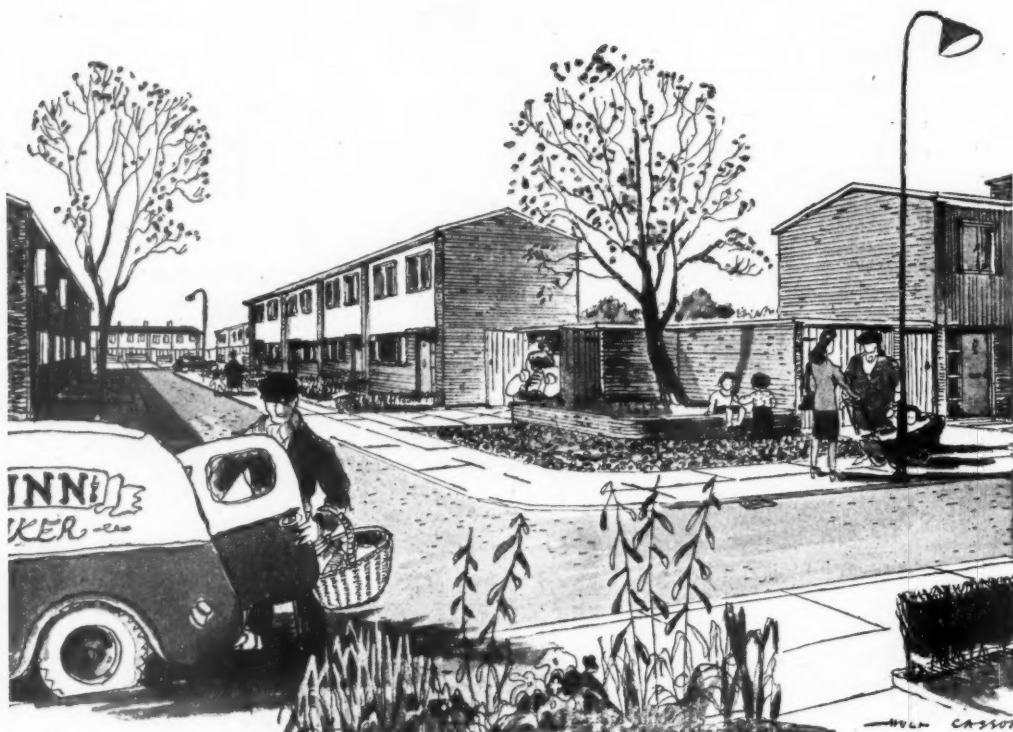
Radiussed corner bricks to match up with:—

P.B.2 .. ..	4/6 each
P.B.3 or 32 .. ..	6/- each

## PAINTER

Snowcem paint (in free air-tight metal containers) .. ..

White ceiling distemper .. ..	per cwt.	56/-
White oiling distemper .. ..	per cwt.	—
Washable distemper .. ..	per cwt. from 66/- to 82/-	—
Ready mixed white lead paint (best), semi-gloss, per 32 lb. .. ..	per gallon	38/9
Aluminium paint (best quality) .. ..	per gallon	40/-
White enamel .. ..	per gallon	57/6
White enamel paint .. ..	per gallon	—
Stiff white lead (genuine English stock process, 1 ton lots, 1 cwt. kegs) .. ..	per cwt.	124/-
Liquid driers .. ..	per gallon	28/-
Linseed oil raw (5-gallon drums) .. ..	per gallon	22/6
" " boiled (5-gallon drums) .. ..	per gallon	22/8
French polish .. ..	per gallon	25/-
Knotting .. ..	per gallon	25/-
Oil stain (scumble) .. ..	per lb.	4/6
" " red oxide .. ..	per cwt.	90/-
" " middle Brunswick green .. ..	per cwt.	140/-
" " dark umber .. ..	per cwt.	156/-
" " golden ochre .. ..	per cwt.	126/-
Varnish (outside quality) oak .. ..	per gallon	42/-
" " " copal .. ..	per gallon	42/-
" " " flattening .. ..	per gallon	44/-
Turpentine, genuine American 5-gallon lots .. ..	per gallon	—
" substitute .. ..	per gallon	3/6
Cresote, 1-gallon lots .. ..	per gallon	2/-
Linseed Oil Putty .. ..	per cwt.	49/3
Utility Glazing Putty .. ..	per cwt.	62/-
Size in ½ S .. ..	per lb.	—
" in 1 S .. ..	per lb.	—
" in 1 S .. ..	per lb.	1/10
Best quality English gold leaf, 23 carat .. ..	per book	3/8
Extra thick, ditto .. ..	per book	4/8



## ZINC for "Mon Repos"

For young Mr. and Mrs. Jones "Mon Repos" is the realisation of a long day-dream. A house is going up in Lobelia Avenue; and it's not just any house — it's *their* house! But to the architect and the builder "Mon Repos", from floor to roof, is a series of questions to which answers must be found.

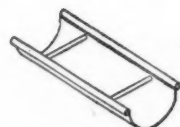
What about gutters and down pipes, for instance? They may not sound exciting, but they have a responsible job to do in keeping the Jones's snug and dry in all weathers. That means that the material they're made of is important, which is why the architect decided to have them of zinc. Zinc is economical because it has a long trouble-free life; it is malleable

and easy to handle; it can stand up to any sort of weather with the minimum of corrosion.

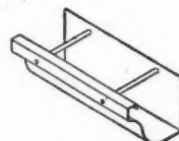
Diagrams on the right show details of zinc rain-water goods. But this is only one example of the use of zinc. There are many other uses, and new techniques are constantly being discovered.

We—Z.D.A.—are ready to give advice and information on anything to do with zinc. Send us your problems; we will assist. Send us your address; we will put you on our mailing list for our various publications — books, booklets, information sheets, etc.

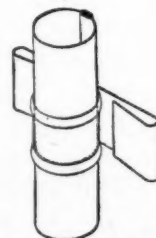
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Stayed half-round gutter.



Stayed ogce gutter.



Down pipe showing jointed lengths and fixing strap.

### ZINC DEVELOPMENT ASSOCIATION

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*There are no signs that the prices of building materials are levelling off, in fact increases during the second quarter of 1947 are the greatest since 1939, amounting to 7½% during the quarter. Mr. Bowen discusses the background to these increases.*

## A New Index Number of Building Materials' PRICES

No. 5

[by Ian Bowen]

### THE INDEX NUMBER AT MAY, 1947

The "peace-time" weighted average of the price quotations of 44 Building Materials stood, at the second quarter of 1947, at 197.2 (August, 1939=100). The index has moved as follows since the end of the war:—

		Index (Aug., 1939 = 100)	Number of points increase on previous quarter
1945—	Quarter 3	160.5	—
	" 4	164.2	+ 3.7
1946—	" 1	167.6	+ 3.4
	" 2	170.2	+ 2.5
	" 3	175.8	+ 5.6
	" 4	180.7	+ 4.9
1947—	" 1	183.5	+ 2.8
	" 2	197.2	+13.7

The second quarter of 1947 thus saw the greatest increase in building materials' prices that has occurred since 1945, and, indeed, since 1939. One has to turn back to the year 1940 to find an increase comparable in magnitude. The third quarter of 1940 was 7.2 points (6½ per cent.) above the figure for the second quarter of that year, owing to the fall of Norway and France. The second quarter of 1947 was 13.7 points (7½ per cent.) above the first quarter, owing mainly to a drastic worsening of our import prices.

The main cause of this really stupendous increase in materials' prices was, of course, the rise in the price of imported timber. Timber prices are now at least 262 per cent. greater than before the war. In February the index for timber prices stood about 170 per cent. above the pre-war price.

Paint and varnish, the ingredients of which are largely imported, have also risen in price very sharply over the quarter. Paint prices are now about 183 per cent. above pre-war. This increase, severe though it is, lags behind the sharp rise in timber prices. Typical varnish prices, however, are 320 per cent. above pre-war.

Prices of lead piping have also advanced, and are another series to affect our index severely in an upward direction.

Timber, paint, varnish and lead are all dependent upon the vicissitudes of foreign exchange. Ballast and gravel prices are almost purely of domestic concern. It is necessary to record that steep advances in the prices of ballast and gravel (said to be due to increased haulage rates) have contributed to the rise in the index.

### THE SIGNIFICANCE OF THE RISE IN PRICES

In the six months' period to the end of March, 1947, there were some signs that the rise in building materials' prices was proceeding less rapidly than before. There was

an advance of 4.9 points in the index in Quarter 4 of 1946, but of only 2.8 points in Quarter 1 of 1947. These advances masked some slight falls in the prices of certain items.

It was thus possible to speculate on the possibility of some flattening-out of the price index, and optimistic commentators, in close touch with some of the building materials' industries, even prophesied that such a flattening-out might occur in the near future. This was not really very plausible for three reasons. There was no sign of a decline, or slowing down in the advance, of prices of those raw materials (imports, or fuel) which most closely affect building materials. There was no slackening in the effective demand for housing, schools, factories and other buildings, more or less regardless of price. There was no immediate likelihood of a strong deflationary policy by the Government.

For these three reasons, it was necessary to be sceptical of any prospect of a "plateau" of prices being reached sooner than the first or second quarter of 1948.

The question now is: does the unprecedented rise of May, 1947, usher in another all-round increase of materials' prices? Or is it the tail-end of a movement that has finally shot its bolt?

### LONG-RUN AND SHORT-RUN INFLUENCES

In the long run, the present very high prices for timber, for vegetable oils and for non-ferrous metals, which are all now materials with multifarious sources of supply, entering into world international trade, cannot be sustained. These are cases where a high price must eventually call forth its remedy of an increase of supply.

In all these cases, however, the time-lag before the necessary adjustments in supply can be made, is likely to be long. Demand, even at high prices, is not likely to wilt, as it would have done in a typical "boom" year, like 1937, before the war. Very considerable increases in supply will be necessary before there is any noticeable reduction in prices, since demand for reconstruction work cannot easily be choked off.

Meanwhile, the steep rises in basic materials' prices are likely to be reflected throughout the whole process of production of several kinds of building materials. In general, a further all-round rise in materials' prices is to be expected throughout 1947. It should be less spectacular than the increase in the second quarter of this year, but it can scarcely be negligible.

Thus, the rise of the second quarter cannot, by any stretch of imagination, be

regarded as the end of a preceding upward surge. It was a part of the general deterioration of overseas terms of trade, which afflicted this country at that date. It cannot but have wider and wider repercussions throughout the economy, until all building materials' prices (as well as other prices) have been adjusted upwards to the appropriate, inevitably higher, levels. Thus, although long-run influences may cause the rise to be checked, further upward movements are to be expected for twelve to eighteen months.

### ANALYSIS OF PRICE MOVEMENTS BY GROUPS OF MATERIALS

How this continuing rise is likely to go on may best be studied by analysing the index into groups of materials.

Group I consists of products that are mainly imported, or contain imported raw materials (timber, paint, and linseed oil putty, for example).

Group II is a class of metal products, such as steel, cast-iron pipes, lead piping, baths, locks and tanks.

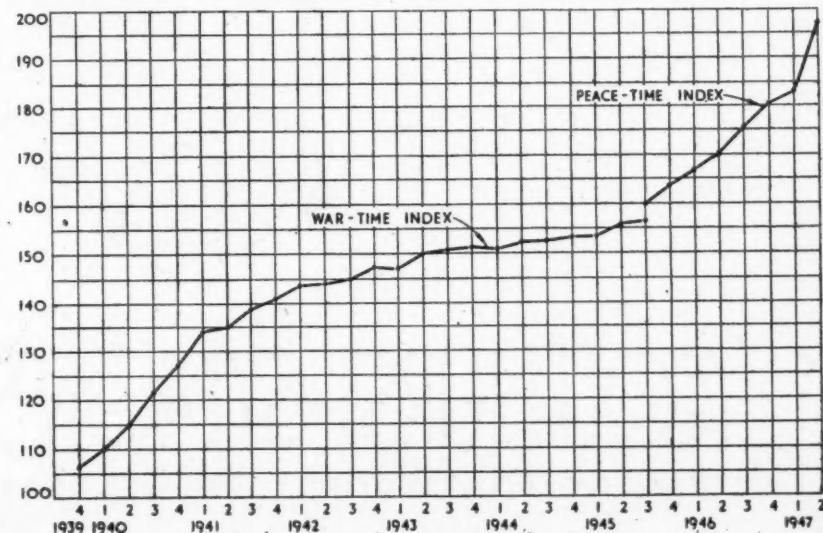
Group III includes all quarried products, in which the main ingredients of cost are labour and transport (gravel, ballast and sand, etc.).

Group IV is a large class of clay and quarry products worked up into primary building materials, such as bricks, cement, salt-glazed pipes, sanitary ware and glass.

The weighted average index number for each of these groups, as compared with August, 1945, have moved as follows:—

	(August, 1945 = 100)	
	1947	
	Quarter I	Quarter II
I. "Imported" products	141.0	175.5
II. Metal products	124.9	127.3
III. Quarried products	114.8	125.1
IV. Primary materials	101.1	100.8
Av. all materials	114.1	121.5

"Primary Materials," it will be seen, have not risen in price in the second, as compared with the first, quarter of 1947. In fact, there has even been a slight fall in one of the items in this group, so that the index for this group has fallen from 101.1 to 100.8 (August, 1945=100). "Imported" products show the steepest rise, followed by "quarried" products, with their dependence upon haulage rates. But is it not obvious that, as transport rates advance, the delivered prices of materials in Group IV will tend to advance, while the prices of Group II materials are bound to be forced upwards as basic materials go up in price?



Graph showing price index per quarter from 1939 to the present.

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Against these forces working for an increase can only be set the economies of large-scale production. But these can affect prices only if such economies are passed on to the consumer in full, and not swallowed up by monopoly, and quasi-monopoly, profits and margins. Competition on price has been eliminated throughout the cement industry (except for special cements), and the same is true of many other building materials' industries. A reduction in the average costs of an industry is, thus, not necessarily followed by a corresponding reduction in prices. Future movements of prices are thus dependent not only upon movements in costs, but upon how far the prices of the industries are controlled effectively, and not merely subject to review.

### MOVEMENTS IN PRICES SINCE 1939

The prices of the four main groups of materials have moved as follows, in comparison with a base not of 1945 but of 1939:—

(August, 1939 = 100)

	1947	
	Quarter I	Quarter II
I. "Imported" products	268.0	336.9
II. Metal products	201.5	205.9
III. Quarried products	176.5	191.5
IV. Primary materials	149.8	149.3
Av. all materials	183.5	197.2

This analysis brings out the point that "imported" products have set the fastest pace in the rise of materials' prices. They stand, as a group, at  $3\frac{1}{2}$  times the pre-war level. "Metal products," on the other hand, are just over double, while quarried products have advanced to nearly double.

Primary materials (bricks, cement, salt-glazed pipes, etc.) are only 50 per cent. above the pre-war level, and are showing greater stability than the other materials.

### FUTURE COURSE OF PRICES

The problem before the new Committees on Costs, and before any administrators who have to carry out their recommendations, is thus seen to be threefold. It will be necessary to tackle first and foremost the international aspect of rising prices. This raises considerations outside the normal purview of a British architect or building contractor; but it is useless now to avoid recognising the fact that, without a fall in international prices for timber and other raw materials, constructional activity is going to be eventually restricted in scope. Secondly, there is the fuel and transport costs aspect of the problem. Thirdly is the necessity for bringing down further the prices of those materials which are benefiting from increased output and lower costs of production. A further decrease in the prices of Group IV, a halt in the rise of prices of Group II, a slowing down of the rise of prices of Group III, and international hope of immediate results in the case of Group I,—might be called the objectives of policy.

### SUBSTITUTION OF MATERIALS

The present diverse movements of the different classes of materials need to be watched carefully by architects and planners. Designs which were formerly more expensive than others may now prove to be relatively cheap. Concrete construction must necessarily gain if, for instance, cement prices can be reduced, or kept from rising. Price competition at the moment may not seem to be keen; but over the next few years, with the current violent changes, it may assume a growing importance.

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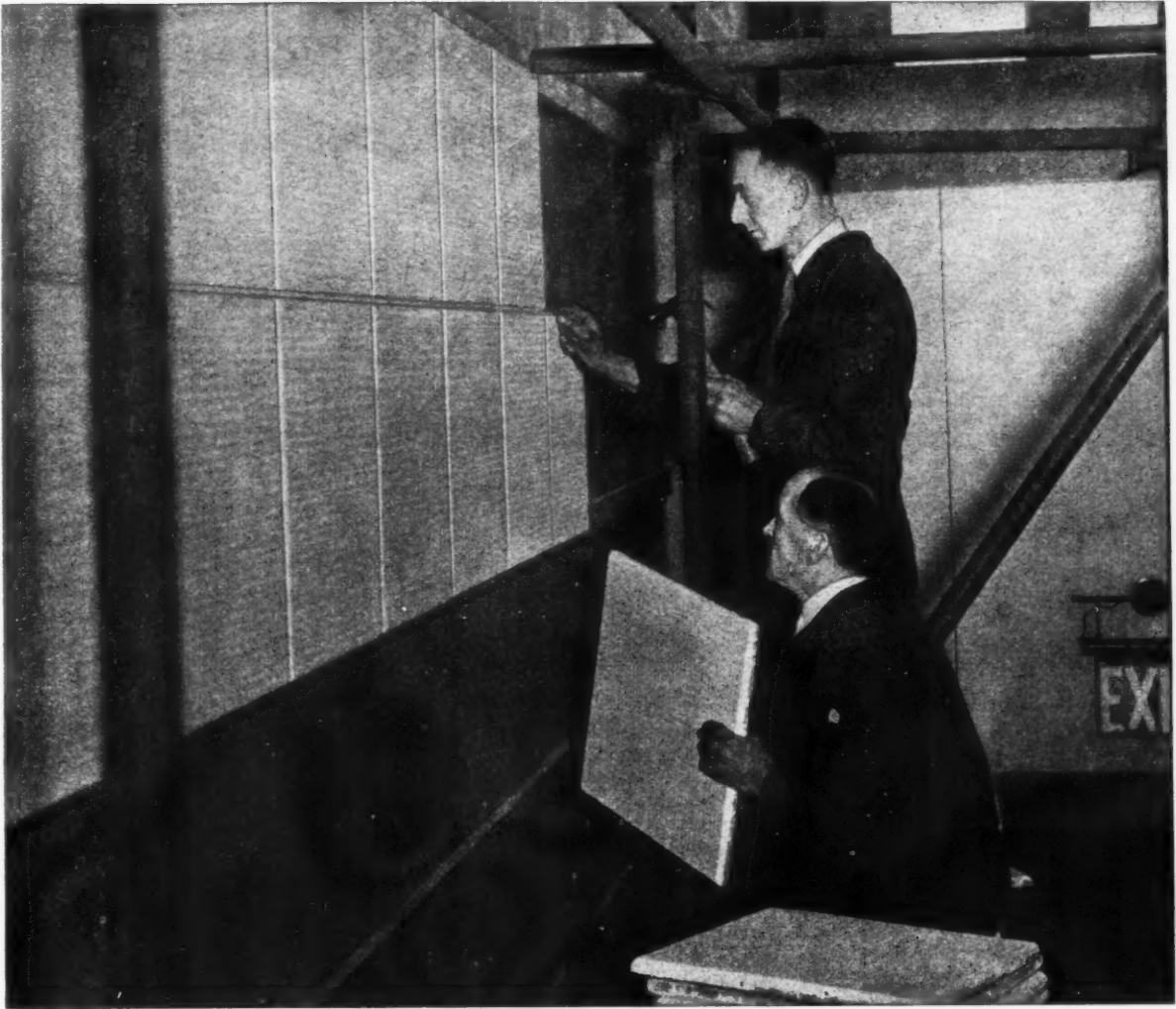
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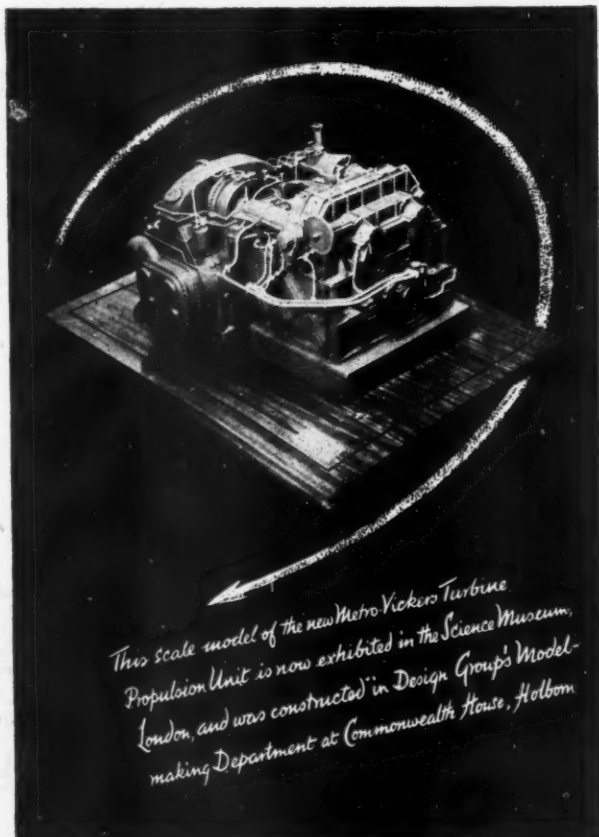
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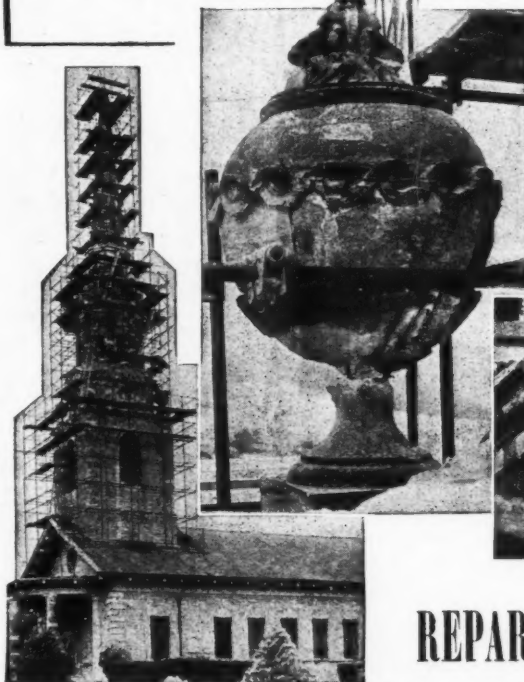
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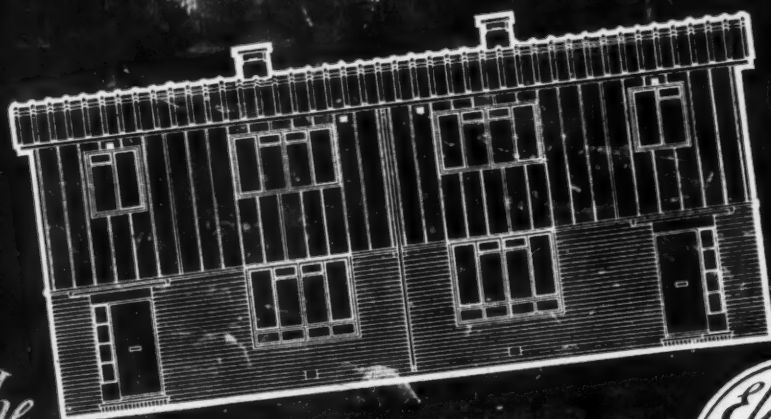
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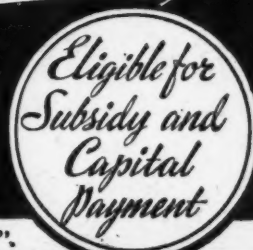
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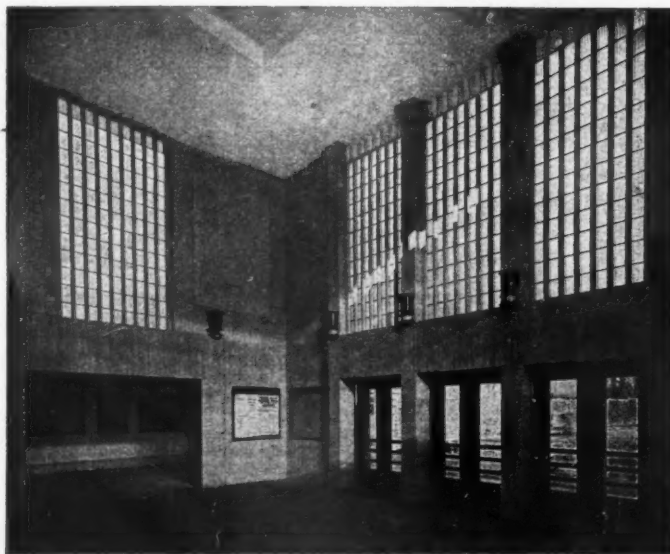
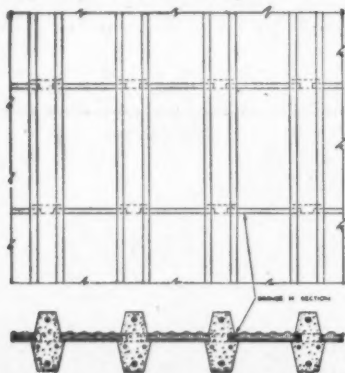
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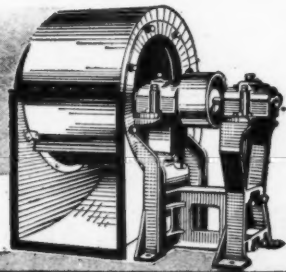
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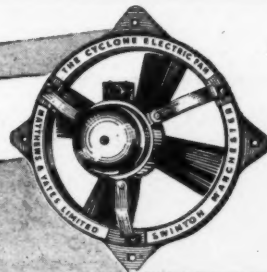
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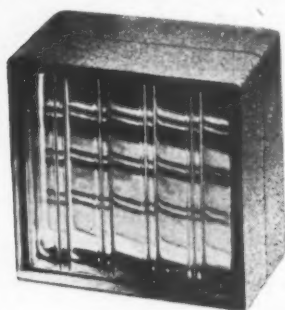
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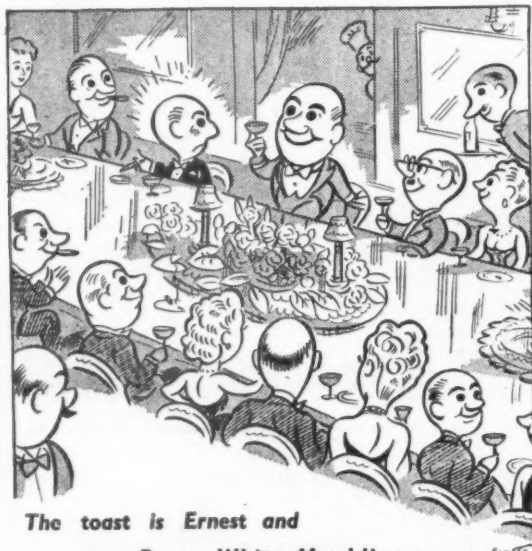




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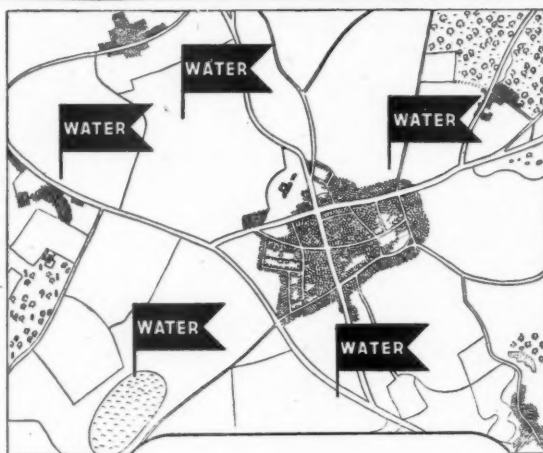
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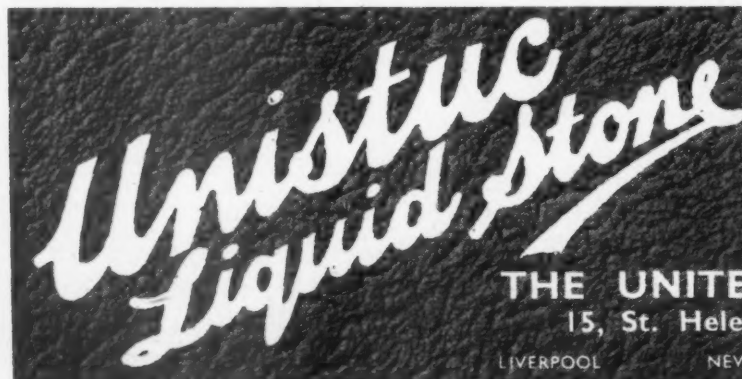
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Applicants should be Members or Associate Members of the Town Planning Institute, and a qualification in Architecture or Civil Engineering will be an advantage.

Applicants must be fully conversant with the Town and Country Planning Acts and Orders made thereunder, and be thoroughly competent to carry out field work, plotting and the preparation of plans.

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G. N. C. SWIFT,

Clerk of the County Council.

The Courts, Carlisle.  
18th June, 1947. 711

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APPOINTMENT OF QUANTITY SURVEYOR. Applications are invited for the permanent appointment of a Quantity Surveyor in the City Engineer's and Surveyor's Department.

Salary is in accordance with Grade A.P.T. V of the National Joint Council, £460—£510 plus cost-of-living bonus, at present £59 16s. 6d. per annum.

Applicants should hold an appropriate qualification and be capable of preparing Specifications and Bills of Materials for all classes of Building Work, and should also be experienced in measurement of work and final settlement of contractors accounts.

Canvassing will disqualify and every applicant must disclose in writing whether, to his knowledge, he is related to any member or senior officer of the Corporation.

Applications, stating age, present and previous appointments with salaries, qualifications, and full particulars of experience, enclosing two copies of recent testimonials should be sent to the undersigned not later than Saturday, 26th July, 1947.

Town Hall,

W. S. DES FORGES,

Town Clerk.

Wakefield.  
June, 1947. 716

COUNTY BOROUGH OF BURNLEY.  
BOROUGH ENGINEER AND SURVEYOR'S  
DEPARTMENT.

Applications are invited for the following appointments:—

(1) CHIEF PLANNING ASSISTANT—GRADE VII—£575—£650 per annum plus bonus, at present £59 16s. 6d. per annum. Candidates must have had considerable experience in all aspects of statutory planning, interim development control, and planning procedure in general. Candidates should be Associate Members of the Town Planning Institute, and in addition should have passed the final examination of one of the following Institutions:—Institution of Municipal Engineers, Royal Institution of Chartered Surveyors, Royal Institution of British Architects. Administrative experience will be an advantage.

(2) SENIOR PLANNING ASSISTANT—GRADE V—£460—£510 per annum, plus bonus, at present £59 16s. 6d. per annum, and

(3) PLANNING ASSISTANT—GRADE IV—£420—£465 per annum, plus bonus, at present £59 16s. 6d. per annum. Candidates for appointments (2) and (3) should be Associate Members of the Town Planning Institute, and the holding of any other qualification in addition will be an advantage. Experience in a similar capacity in a Planning Office is essential.

(4) PLANNING ASSISTANT—GRADE II—£360—£405 per annum, plus bonus, at present £59 16s. 6d. per annum. Applicants should have had interim development experience in a Planning Office, and preference will be given to candidates who are Students of the Town Planning Institute.

(5) SENIOR ARCHITECTURAL ASSISTANT—GRADE V—£460—£510 per annum, plus bonus, at present £59 16s. 6d. per annum. Applicants should have had experience in the design of Educational Buildings and preference will be given to Associates of the Royal Institute of British Architects. The commencing salary for this appointment will be fixed in accordance with experience and qualifications.

(6) ENGINEERING ASSISTANT—GRADE IV—£420—£465 per annum plus bonus, at present £59 16s. 6d. per annum. Applicants must be Associate Members of the Institution of Civil Engineers, or hold the Testamur of the Institution of Municipal Engineers and must have had considerable experience in all types of sewerage works.

Conditions of appointment are those formulated by the National Joint Council, and all appointments are 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 Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than 9 a.m. on Monday, the 14th July, 1947.

C. V. THORNLEY,

Town Clerk.

Town Hall, Burnley.  
17th June, 1947. 710

BERKSHIRE COUNTY COUNCIL.  
ENGINEERING ASSISTANT.

Applications are invited for the appointment in the County Architect's Department of an ENGINEERING ASSISTANT at a salary of £460 per annum rising by two annual increments of £15 and one of £30 to a maximum of £510 per annum (A.P.T. Grade V) plus bonus. The cost-of-living bonus is at present £59 16s. 6d. per annum.

Candidates for the appointment should be members of the Institution of Heating and Ventilating Engineers and should have had wide experience in design and supervision of heating, hot water supply, electrical and general mechanical installations.

The appointment will be subject to the Local Government Superannuation Act, to one month's notice on either side, to the successful candidate passing a medical examination, and to the Council's General Conditions of Service for Administrative, Professional, Technical and Clerical Staff for the time being in force.

Other factors being equal, preference will be given to registered disabled persons.

Application forms can be obtained on receipt of a stamped addressed envelope from the County Architect, 35, Bath Road, Reading, to whom they should be returned completed, together with copies of three recent testimonials on or before Saturday, 12th July, 1947.

H. J. C. NEORARD,

Clerk of the Council.

Shire Hall, Reading. 721

## BOROUGH OF BARNES.

Applications are invited for the position of TEMPORARY ARCHITECTURAL ASSISTANT, in the Borough Engineer and Surveyor's Department, at a salary of £400 per annum, plus bonus, at present £59 16s. 6d. per annum.

Applicants should be good draughtsmen and be capable of preparing plans for housing and other architectural work.

Applicants should have passed one of the following examinations:—  
Degree in Architecture of a British University.  
Royal Institution of British Architects.

Applications, giving the names of three gentlemen to whom reference can be made, should reach the undersigned by Saturday, 12th July, 1947.

W. R. SHEPHERD, A.M.I.C.E.,

Borough Engineer and Surveyor.

Municipal Offices, Sheen Lane, S.W.14. 739

**MERIONETH JOINT PLANNING COMMITTEE.**

**APPOINTMENT OF PLANNING ASSISTANT.**  
Applications are invited for the appointment of a PLANNING ASSISTANT in the County Planning Officer's Department. The appointment will be in A.P.T. Grade I (£330 × £15-£375) or Grade II (£360 × £15-£405) of the National Joint Council's Scale plus cost of living bonus at present £59 16s. 0d. per annum in each case. The Grade will be determined according to qualifications. Travelling and subsistence allowances will be paid in accordance with the Merioneth County Council Scale and it is very desirable that the successful applicant should possess his own car.

Applicants should be fully conversant with the Town and Country Planning Acts and Orders and be thoroughly competent to carry out all work relating to the control of interim development and the preparation of planning schemes. Architectural experience will be deemed an advantage.

The appointment will be terminable by one month's notice in writing on either side and will be subject to the Local Government Superannuation Act, 1937, and the Sick Pay Scheme and other Rules and Regulations of the Merioneth County Council. The successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should be received by the undersigned not later than Saturday, the 12th day of July, 1947.

**HUGH J. OWEN,**  
Clerk to the Merioneth  
Joint Planning Committee.

County Offices, Dolgellsey.  
18th June, 1947. 731

**CITY OF SALFORD.**

Applications are invited for the following appointments:—

(a) JUNIOR ARCHITECTURAL ASSISTANT. Salary £360-£405 per annum, in accordance with Grade II of the National Scale.

(b) JUNIOR ARCHITECTURAL ASSISTANT. Salary in accordance with the General Division of the National Scale, which is £160 per annum at 21 years of age, rising to £300 at 30 years of age.

In addition a cost-of-living bonus of £60 is payable.

Candidates for appointment (a) should be trained in architecture and the possession of the Intermediate Certificate of the Royal Institute of British Architects would be advantageous.

For appointment (b), preference will be given to applicants who are enrolled students of the Royal Institute of British Architects or who have received training at a recognized University.

The above appointments are subject to the National Conditions of Service, and the successful applicants will be required to pass a medical examination for entry into the Corporation's Superannuation Scheme.

Applications, enclosed in envelopes endorsed "Architectural Assistant (a)" or (b), stating age, experience, and particulars of past and present appointments, together with names of not more than three referees, should be received by the City Engineer, Town Hall, Salford, 3, not later than Friday, 11th July, 1947.

**H. H. TOMSON,**  
Town Clerk. 742

**COUNTY BOROUGH OF BOLTON.**

Applications are invited for the following appointments, in the Borough Engineer and Surveyor's Department:—

ONE QUANTITY SURVEYOR (A.P.T., IV). Salary £420, rising to £465 per annum, plus £59 19s. bonus.

ONE QUANTITY SURVEYOR (A.P.T., II). Salary £360, rising to £405 per annum, plus £59 19s. bonus.

ONE QUANTITY SURVEYOR (A.P.T., I). Salary £330, rising to £375 per annum, plus £59 19s. bonus.

ONE ARCHITECTURAL ASSISTANT (A.P.T., IV). Salary £420, rising to £465 per annum, plus £59 19s. bonus.

ONE ARCHITECTURAL ASSISTANT (A.P.T., III). Salary £390, rising to £405 per annum, plus £59 19s. bonus.

THREE ENGINEERING ASSISTANTS (A.P.T., I). Salary £330, rising to £375 per annum, plus £59 19s. bonus.

Applicants for the appointments of Engineering Assistants must have passed Sections A and B of the Associate Membership Examination of the Institution of Civil Engineers and/or the Testamur Examination of the Institution of Municipal Engineers.

Applicants for the appointments of Architectural Assistants must be Registered Architects, and preference will be given to Associate Members of the Royal Institute of British Architects.

The appointments will be permanent and pensionable.

Applications, stating age, qualifications, all previous appointments and experience, and copies of not more than three testimonials, should be delivered to the undersigned not later than 14 days after the appearance of this advertisement, and the envelope appropriately endorsed.

Relationship to any member of the Council or Senior Officer of the Corporation must be disclosed, and canvassing will disqualify.

**PHILIP S. RENNISON,**

Town Clerk. 755

**HASTINGS EDUCATION COMMITTEE, HASTINGS SCHOOL OF ART-BRASSEY INSTITUTE.**

Principal: VINCENT H. LINES, R.W.S., A.R.C.A. (Lond.).

**DEPARTMENT OF ARCHITECTURE.**

Applications are invited for the appointment of a Full-time LECTURER AND STUDIO INSTRUCTOR in Architectural Design and Construction.

Candidates should hold the A.R.I.B.A. or equivalent qualification. Salary in accordance with the Burnham Scale.

Application forms may be obtained from the undersigned, and should be returned with copies of two recent testimonials, within 14 days of the appearance of this advertisement.

**W. NORMAN KING, M.Sc.,**

Chief Education Officer.  
Education Office, 18, Wellington Square, Hastings. 766

**KINGSTON-UPON-HULL EDUCATION AUTHORITY.**

**COLLEGE OF ART AND CRAFTS.**

Principal: S. I. HENNING, A.R.C.A. (Lond.), F.R.S.A.

Required, as soon as possible, a HEAD OF THE SCHOOL OF ARCHITECTURE, for appointment to the Kingston-upon-Hull College of Art and Crafts. The School of Architecture conducts a Five-year Diploma Course, and is recognized for exemption from the Intermediate Examination of the Royal Institute of British Architects.

Salary will be in accordance with Grade II of the Burnham Scale of Salaries for Technical Institutions, i.e., £750-£850, plus an allowance for training.

Particulars of appointment, and application forms (which must be returned within 14 days of the date of this issue), can be obtained on receipt of a stamped, addressed, foolscap envelope from the Director of Education, Guildhall, Kingston-upon-Hull. 767

**BOROUGH OF EDMONTON.**

**TECHNICAL STAFF.**

Applications are invited for the following appointments, in the Borough Engineer and Surveyor's Department:—

TOWN PLANNING ASSISTANTS (Amended Advertisement). Grades A.P.T., I/III, £350 × £15 to £455 per annum, plus bonus, £59 16s.

Candidates must have had experience in the preparation of town planning maps and be an expeditious draughtsman, and the commencing salary will be fixed according to qualifications and experience. (Applications already made in response to advertisement issued on the 5th June will stand.)

ARCHITECTURAL ASSISTANTS (Amended Advertisement). One Permanent, one Temporary. Grade A.P.T., V, £480 × £15 (2) and £20 to £530 per annum, plus bonus, £59 16s.

Candidates should be associates of the R.I.B.A. or equivalent, and have had experience in housing and general building work. (Applications made in response to advertisement issued on 5th June must be renewed.)

ARCHITECTURAL DRAUGHTSMAN (Temporary). Grade A.P.T., I, £350 × £15 to £395 per annum, plus bonus, £59 16s. per annum.

Applicants must be capable draughtsmen, and experience of housing and general building work essential.

LICENSING ASSISTANT (Temporary). Salary £8 8s. per week, plus bonus, 23s. per week.

The selected candidates will be required to carry out duties of a technical character in connection with the Licensing of Civil Building Works in the Borough.

Applicants should have had experience in the office of a Municipal Engineer and Surveyor, and preference will be given to those who hold certificates in building construction and quantity surveying and are experienced in the preparation of specifications and estimates for building work.

The appointments will be subject to the National Joint Council's Conditions of Service; the Rules and Regulations adopted by the Council from time to time; the Local Government Superannuation Act, 1937, and a satisfactory medical examination.

Forms of application and conditions of appointment may be obtained from the undersigned, and must be returned to me completed, not later than noon Saturday, 19th July, 1947.

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

**H. BACKHOUSE,**

Town Clerk. 765

**CROWN AGENTS FOR THE COLONIES.**

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

QUANTITY SURVEYOR required by the Government of Nigeria Public Works Department for a tour of 18 to 24 months in the first instance. Salary between £600 and £1,000 a year, according to qualifications and experience. On a salary of £600 there is a local allowance of £24 a year and, for married men, a separation allowance between £72 and £192 a year, according to number of dependants. Outfit allowance £60. Free passages and quarters. Candidates must be Chartered Quantity Surveyors, and have had good experience of practical quantity surveying. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/17564 on both letter and envelope. 772

**DERBYSHIRE COUNTY COUNCIL.**

**COUNTY ARCHITECT'S DEPARTMENT.**  
Applications are invited for the under-mentioned appointments on the permanent staff:—

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

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

(b) ASSISTANT ARCHITECT. Grade V. Salary £460-£510.

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

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

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

(e) ARCHITECTURAL ASSISTANT. Grade I. Salary £330-£375.

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

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

**QUANTITY SURVEYORS.**

(g) Grade VII. Salary £575-£650

(h) Grade VI. Salary £535-£600.

(i) Grade V. Salary £460-£510.

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

**ASSISTANT QUANTITY SURVEYORS.**

(j) Grade IV. Salary £420-£465.

(k) Grade III. Salary £390-£435.

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

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

Applicants must, state in their applications whether or not they are related to any member of the Council or to the head of a department under the Council.

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

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

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

Applications, stating age, present position and salary, qualifications and previous experience, accompanied by copies of two recent testimonials, should reach the undersigned not later than 12th July, 1947.

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

**F. HAMER CROSSLEY, Dipl.Arch.,**

A.R.I.B.A.,

County Architect. 769

3rd July, 1947.

**SURREY COUNTY COUNCIL.**

**EDUCATION COMMITTEE.**

**KINGSTON-UPON-THAMES SCHOOL OF ART.**  
Applications are invited immediately for the following part-time posts in the Department of Architecture, which will be vacant in September, 1947:—

JUNIOR AND SENIOR STUDIO INSTRUCTORS.

LECTURER IN GENERAL HISTORY OF ARCHITECTURE.

LECTURER IN SPECIAL PERIODS OF HISTORY OF ARCHITECTURE.

LECTURER IN ADVANCED BUILDING CONSTRUCTION.

LECTURER IN THEORY OF ACOUSTICS AND SOUND CONTROL IN BUILDING.

Remuneration in accordance with the Committee's Scale for part-time lecturers of advanced subjects. Applications should be by letter, addressed to the Head of Department of Architecture, Kingston School of Art, Knights Park, Kingston-on-Thames, Surrey. 762

**BOROUGH OF ILFORD.**

**APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT.**

Applications are invited for the position of a Temporary Architectural Assistant on the staff of the Borough Engineer's Department.

Salary in accordance with A.P.T. Grade IV, of the National Scales (£420-£465), plus £20 London weighting, and cost-of-living bonus, at present £59 16s. per annum.

Candidates, who should possess approved qualifications, must have experience of Council Housing Schemes, particularly with regard to the preparation of contracts and working drawings.

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

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Ilford, and should be returned to the undersigned not later than the 19th July, 1947.

**K. F. B. NICHOLLS,**

Town Clerk. 761

Town Hall, Ilford.

23rd June, 1947.



## CITY OF GLOUCESTER.

Applications are invited for the following appointments:—

(a) Architectural Assistant, Salary A.P.T. Division, Grade V, £460-£510, plus cost-of-living bonus of £59 16s.

(b) Junior Architectural Assistant, General Division, £65-£80, plus cost-of-living bonus according to age.

The selected candidates will be required to pass a medical examination and the appointments will be subject to one month's notice on either side, the provisions of the Local Government Superannuation Act and the National Scheme of Conditions of Service for Local Government Officers will apply.

Applicants for (a) should have experience of Local Authority buildings, must be registered Architects, preferably members of the R.I.B.A., and for (b) preference will be given to Students of the R.I.B.A. who intend to qualify for Associate membership and become Registered Architects.

Applications, stating age, training, qualifications and experience, and enclosing copies of three recent testimonials, should be sent to A. Morgan, City Architect, Suffolk House, Greyfriars, Gloucester, not later than the 18th July, 1947, endorsed with the grade of the appointment applied for. 774

LONDON COUNTY COUNCIL.  
VACANCIES FOR ARCHITECTURAL STAFF  
IN THE ARCHITECT'S DEPARTMENT.

Applications are invited for a number of positions in the following grades:—

ARCHITECT (Grade III), £560-£28-£700 a year (professional qualifications required).

TECHNICAL ASSISTANT (Section A), £440-£20-£580 a year.

TECHNICAL ASSISTANT (Section B). Up to 167s. 6d. per week.

Commencing rates will be according to qualifications and experience.

Required for work in connection with the design and erection of new schools and other buildings, and structural alterations to existing buildings.

A number of technical assistants also required for the preparation of specifications and estimates for works of cleaning and painting, war damage repairs, and alterations at schools and other buildings.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for permanent appointment and for advancement to higher positions, according to merit.

Other things being equal, ex-Service men and women will receive special consideration.

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

Canvassing disqualifies. (1405) 891

ANGLESEY COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment, in the County Architect's Department of the Anglesey County Council:—

ONE JUNIOR ARCHITECTURAL ASSISTANT. Salary in accordance with the National Scale, Grade A.P.T.I., commencing at £330 per annum, and rising by annual increments of £15 to £375, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants should be of Intermediate R.I.B.A. standard, and have had experience in general architectural work.

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

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

Applications in plain envelopes, endorsed "Junior Architectural Assistant," stating age, qualifications, training and experience, giving particulars of present appointment, accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than Wednesday, 16th July, 1947.

WILLIAM JONES,  
Clerk of the County Council.

Shire Hall, Llangefni.

23rd June, 1947. 770

WILTS COUNTY COUNCIL.  
CHIEF ASSISTANT ARCHITECT.

The County Council invite applications for the post of Chief Assistant Architect, in the County Architect's Department.

Applicants should be Associates of the Royal Institute of British Architects or hold equivalent qualifications.

Salary in accordance with Grade VIII of the National Scale, viz., £625, by increments of £25 to £700 per annum, plus war bonus (at present £59 16s. per annum).

Applicants should have had experience in the office of a Public Authority, and be conversant with school planning as required by the Education Act, of 1944.

The appointment is superannuable, subject to medical examination and terminable by one month's notice on either side.

Forms of application may be obtained from the County Architect, County Hall, Trowbridge, and should be forwarded to the undersigned not later than Thursday, 17th July, 1947.

P. A. SEABORNE STRINGER,  
Clerk of the County Council.

County Hall, Trowbridge, Wilts.

June, 1947 744

STAFFORDSHIRE COUNTY COUNCIL.  
APPOINTMENT OF COUNTY PLANNING  
OFFICER.

Applications are invited for the appointment of County Planning Officer, at an annual salary of £1,300, rising by two annual increments of £100 each to a maximum of £1,500, plus cost-of-living bonus, at present amounting to £59 16s. per annum. Applicants must be Corporate Members of the Town Planning Institute, and have had considerable experience in the preparation and administration of planning schemes. Preference will be given to persons who also possess a recognized qualification in architecture, civil engineering, or surveying. The appointment will be terminable by three calendar months' notice in writing on either side and subject to the Local Government Superannuation Act, 1937, in which connection the successful applicant will be required to pass a medical examination. Applications in writing, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, should reach the undersigned not later than the 15th day of July, 1947, enclosed in sealed envelopes marked clearly in the top left-hand corner "County Planning Officer."

Canvassing, either directly or indirectly, will be a disqualification, and applicants are required to disclose in their applications whether they are related to any member of the County Council.

T. H. EVANS,  
Clerk of the County Council.

County Buildings, Stafford.

23rd June, 1947. 758

LONDON COUNTY COUNCIL.  
QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors, in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-storey dwellings, at consolidated salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurements of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice. Canvassing disqualifies. (632) 997

BOROUGH OF WALTHAMSTOW.  
BOROUGH ARCHITECT'S DEPARTMENT.  
ASSISTANT ARCHITECTS.

Applications are invited for the permanent positions of Two Assistant Architects, at a salary in accordance with Grade III of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (£390, rising to £435 by annual increments), plus London weighting allowance according to the scale, and cost-of-living bonus, at present £59 16s. per annum.

Applicants must have had experience in the Preparation of Working and Detail Drawings for Housing Schemes.

The appointment will be subject to the Local Government Superannuation Act, 1937, to the National Joint Council's Conditions of Service, to the successful candidate passing a medical examination, and to termination by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by names and addresses of three referees to whom reference may be made, must reach the undersigned, endorsed "Assistant Architect," not later than Friday, 18th July, 1947.

Canvassing in any form will be deemed a disqualification, and applicants must disclose any relationship to any member of the Council or holder of any senior office under the Council.

G. A. BLAKELEY,  
Town Clerk.

Town Hall, Walthamstow, E.17. 740

CITY OF SALFORD.  
APPLICATIONS ARE INVITED FOR THE APPOINTMENT  
OF HEATING AND VENTILATING ENGINEER.

Salary £460-£510 per annum, in accordance with Grade V of the National Scale, plus cost-of-living bonus, at present payable of £60 per annum.

Applicants should possess one or more of the recognized technical qualifications for Heating and Ventilating Engineers.

The appointment is subject to the National Conditions of Service, and the successful applicant will be required to pass a medical examination for entry into the Corporation's Superannuation Scheme.

Applications, enclosed in envelopes, endorsed "Heating and Ventilating Engineer," stating age, qualifications, experience, and particulars of past and present appointments, together with the names of not more than three referees, should be received by the City Engineer, Town Hall, Salford, 3, not later than Friday, 11th July, 1947.

H. H. TOMSON,  
Town Clerk.

743

THE UNIVERSITY OF LIVERPOOL.  
LIVERPOOL SCHOOL OF ARCHITECTURE.  
Applications are invited for the post of  
SENIOR LECTURER IN ARCHITECTURAL  
CONSTRUCTION (Grade I) in the School of  
Architecture, at a salary scale of £850-£950-  
£1,050 per annum, 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 18th August, 1947, by the undersigned, from whom particulars of the conditions of appointment may be obtained.

STANLEY DUMBELL,  
Registrar.

June, 1947. 699

CITY OF YORK.  
Applications are invited for the following  
appointments, in the City Engineer and Architect's Department:—

TWO ARCHITECTURAL ASSISTANTS (Grade V—£460-£510) and ONE ARCHITECTURAL ASSISTANT (Grade IV—£420-£465). The salaries stated are exclusive of cost-of-living bonus, at present £59 16s.

Applicants must hold an appropriate architectural qualification, have had good experience in general architectural work, particularly in connection with schools, and should be experienced in the preparation of working drawings and details. Preference will be given to Associates of Royal Institute of British Architects.

Applications, stating age, qualifications and previous experience, with copies of three recent testimonials, to be sent to the undersigned not later than noon on 8th July, 1947. The successful applicants will be required to pass a medical examination, and the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the terms and conditions of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services. Applicants must disclose in writing whether, to their knowledge, they are related to any member of the Council or the holder of any senior office under the Council.

Canvassing in any form will disqualify.

CHAS. J. MINTER,  
City Engineer and Architect.

Guildhall, York.

20th June, 1947. 738

CITY OF ROCHESTER.  
ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, in the City Surveyor's Department, at a salary in accordance with Grade IV (Administrative, Professional and Technical Division) of the National Scale of Salaries, viz., £420 per annum, rising by annual increments of £15 to £465 per annum, plus cost-of-living bonus, at present £60 per annum. Candidates must be Registered Architects, and preference will be given to Associates of the Royal Institute of British Architects. A good general experience is required, particularly in the preparation of drawings and specifications for Municipal Housing Schemes. A knowledge of quantities would be an advantage.

The appointment will be subject to:—

(1) The scheme of conditions of service of the National Joint Council for Local Authorities' Administrative, Professional, Technical, and Clerical Services.

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

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must reach the undersigned not later than 21st July, 1947.

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

JOHN L. PERCIVAL,  
Town Clerk.

Guildhall, Rochester.

25th June, 1947. 768

SURREY COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

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ARCHITECTURAL ASSISTANT, GRADE I, at a commencing salary of £350 rising by annual increments of £15 to £375 per annum, plus London allowance of £20, together with war bonus, at present £59 16s. 6d. per annum.

Applicants should be of good general training and experience.

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 18th July, 1947.

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

DUDLEY AUKLAND,  
Clerk of the Council.

County Hall, Kingston-upon-Thames. 722

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Applicants should have had basic training in either Architecture or Engineering, and preference will be given to candidates who have passed the examinations of the Town Planning Institute or alternative professional institutions.

The successful candidate will be required to pass a medical examination for entry into the Corporation's Superannuation Scheme.

Applications, stating age, qualifications and experience, together with particulars of past and present appointments, should be addressed to the City Engineer, Town Hall, Salford, 3, enclosed in envelopes endorsed "Town Planning Assistant," and be received not later than Friday, 11th July, 1947.

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**ARCHITECTURAL ASSISTANTS** required immediately, with sound knowledge of construction, and preferably experienced in industrial work and capable of preparing complete working drawings. Write, stating age, experience, and qualifications, to Elliott, Cox & Partners, Coastal Chambers, 172, Buckingham Palace Road, London, S.W.1. 751

**ARCHITECTURAL ASSISTANT** required immediately, with sound knowledge of construction, and able to carry out surveys and levels. Write, stating age, experience and qualifications, to Elliott, Cox & Partners, Coastal Chambers, 172, Buckingham Palace Road, London, S.W.1. 752

**APPLICATIONS** are invited by the Co-operative Wholesale Society, Ltd., for appointments as **ASSISTANT ARCHITECTS**; applicants should be good draughtsmen, with a sound knowledge of general construction, and experience in commercial and industrial work will be an advantage; salary £420 to £500 per annum, plus cost-of-living bonus of £74 per annum, or £500 to £600 per annum, plus cost-of-living bonus of £100 per annum, according to experience and qualifications; good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory superannuation scheme. Applications, stating educational qualifications and experience, to be addressed to the C.W.S. Ltd., Architect's Dept., 1, Balloon Street, Manchester, 4. 753

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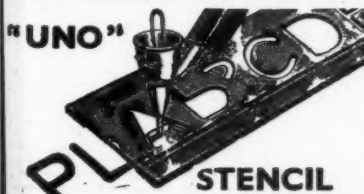
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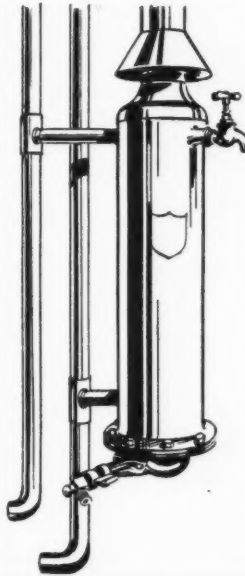
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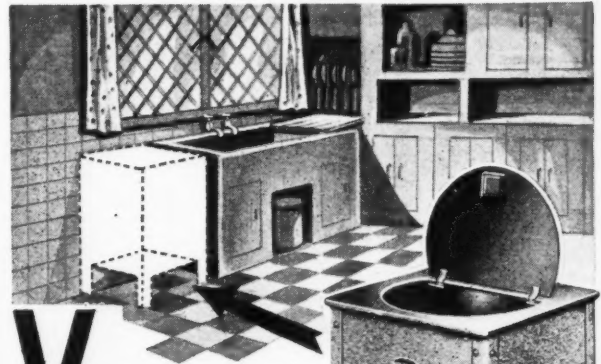
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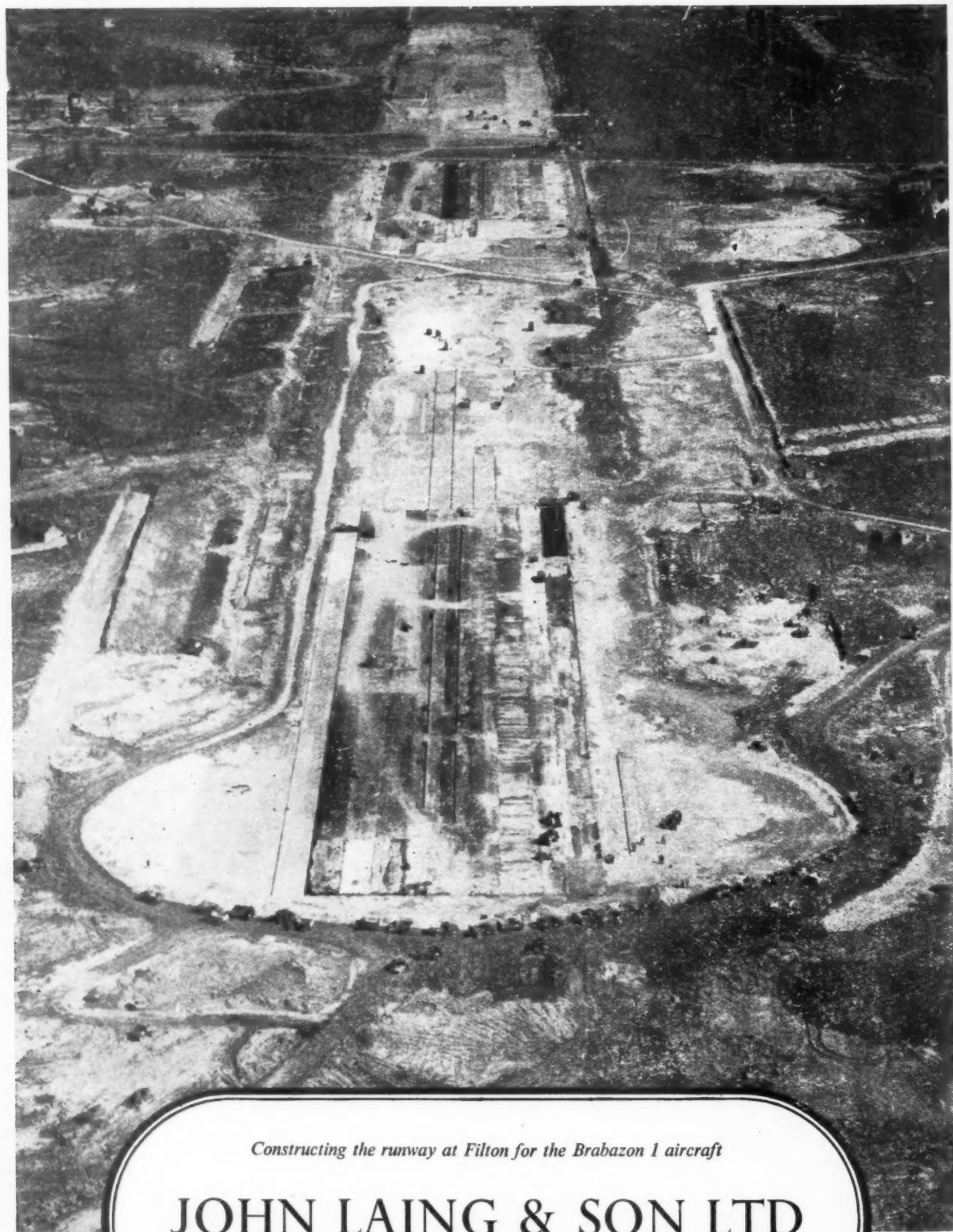
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