

THE ARCHITECTURAL JOURNAL

JAN 26 1949
DET 1011



standard contents

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

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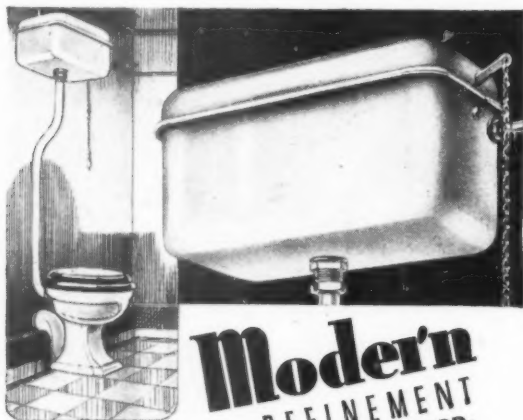
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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the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

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. 75, Eaton Place, S.W.1.	Sloane 3158
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
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
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). 34, Gordon Square, W.C.1.	Euston 2158-9
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, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
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
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
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 1761
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
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.	Whitehall 3935
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
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. 20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C.	Chancery 5313
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council. Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	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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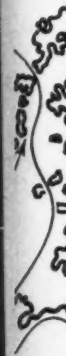
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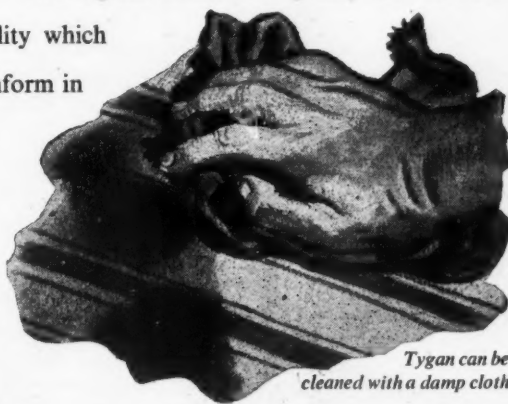
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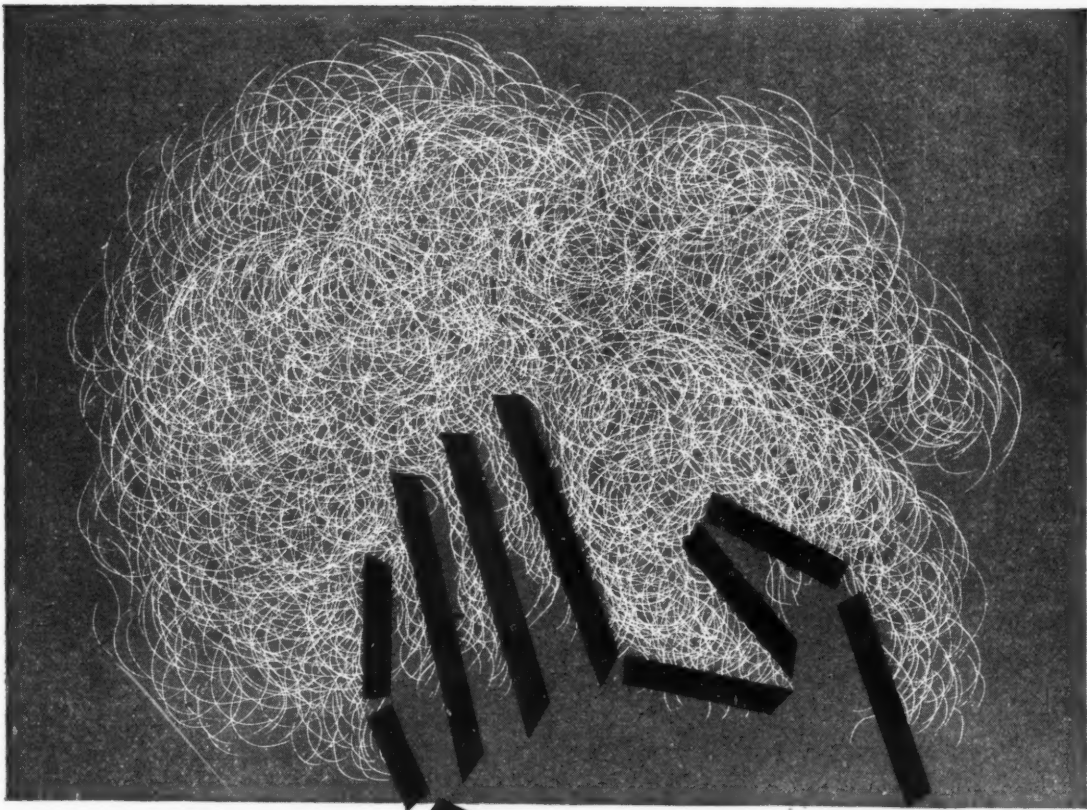
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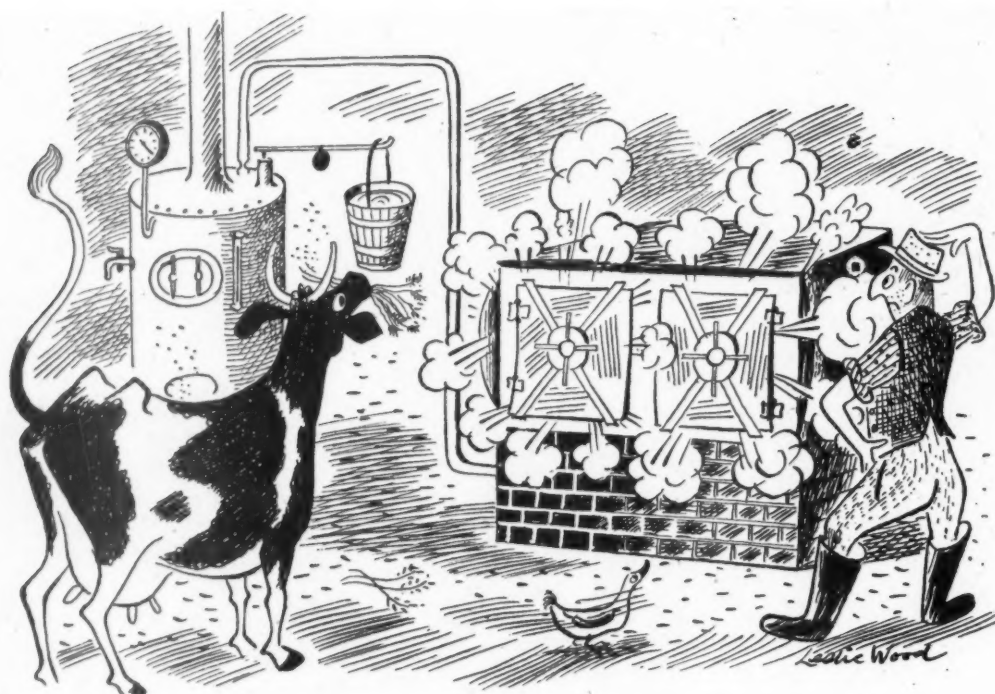
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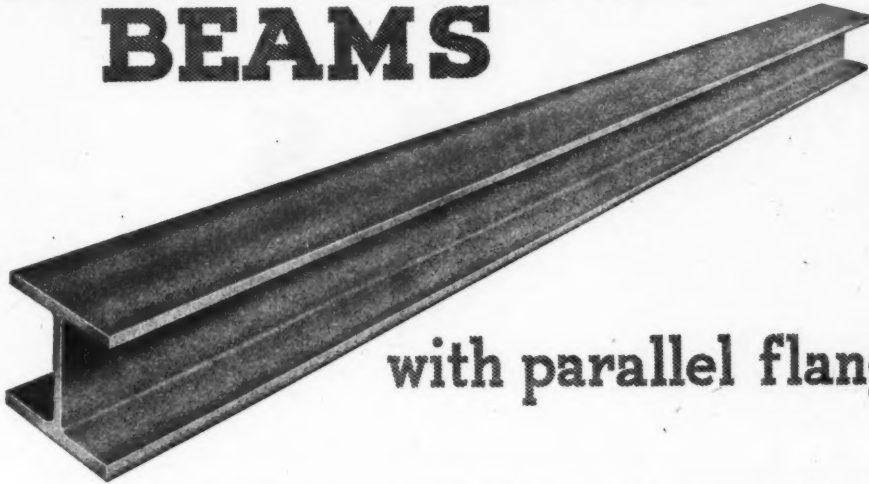
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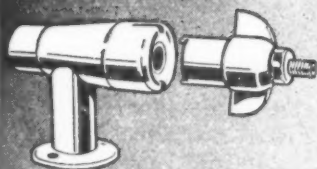
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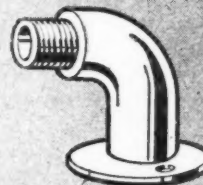
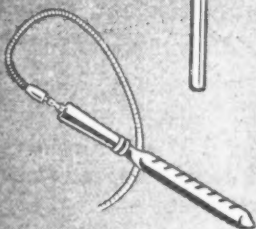
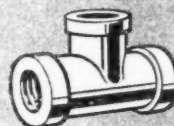
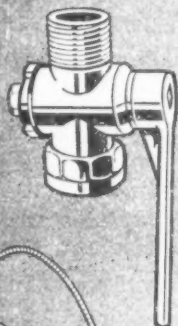
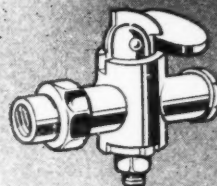
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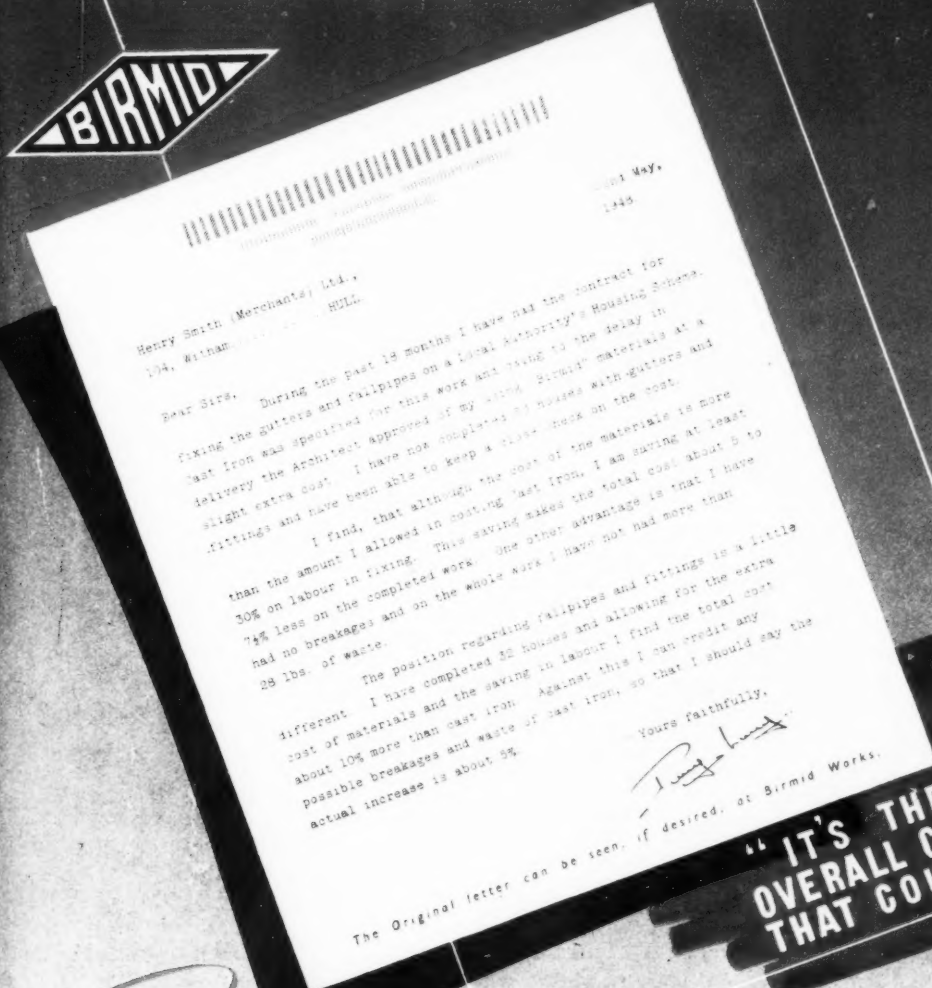
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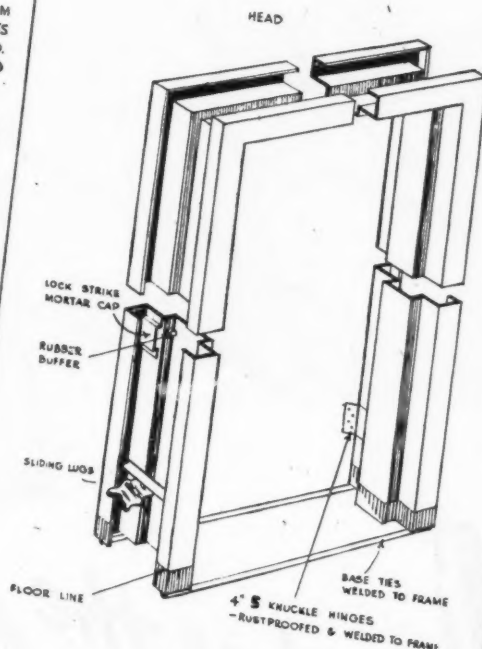
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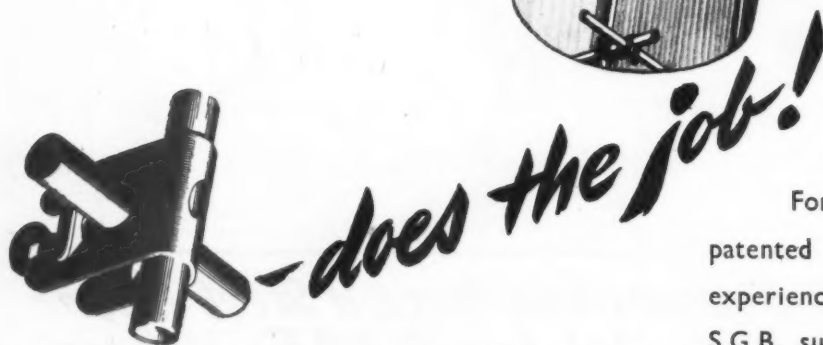
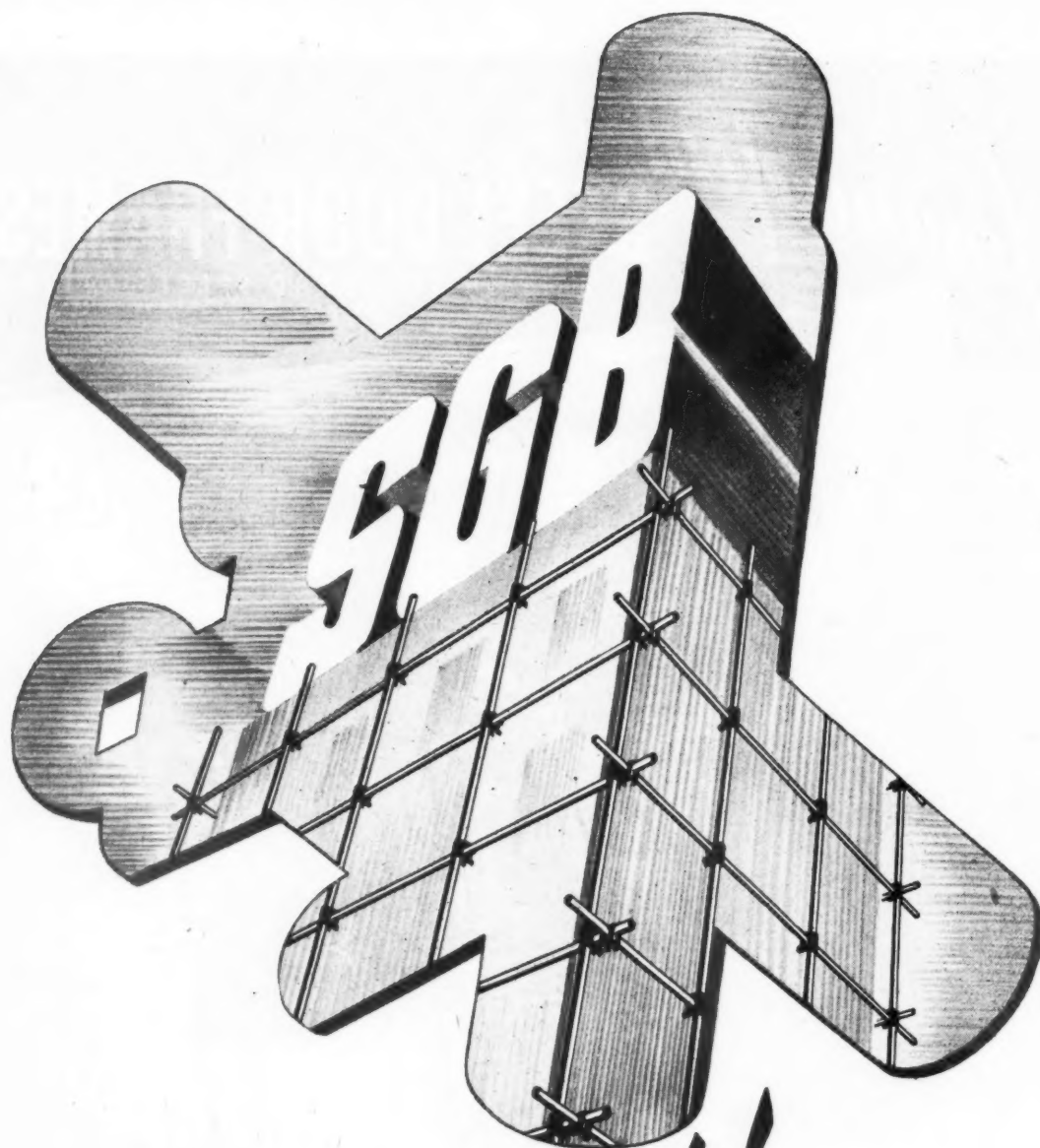
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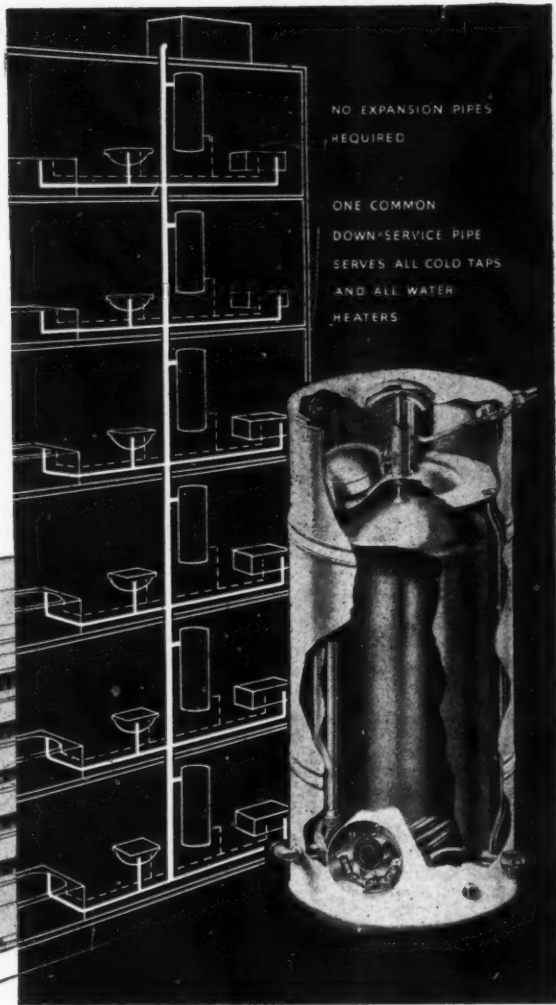
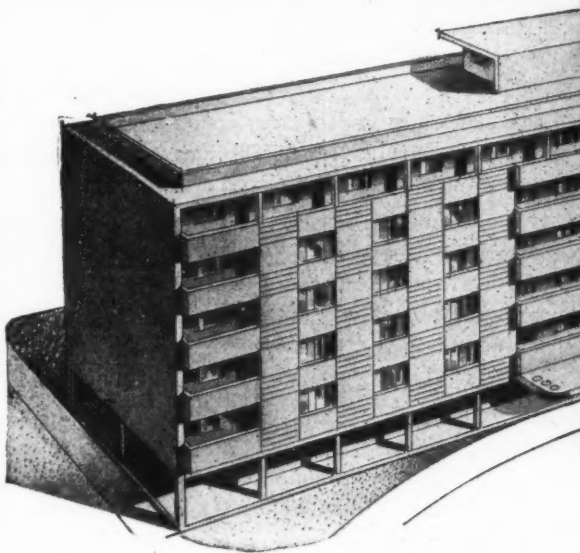
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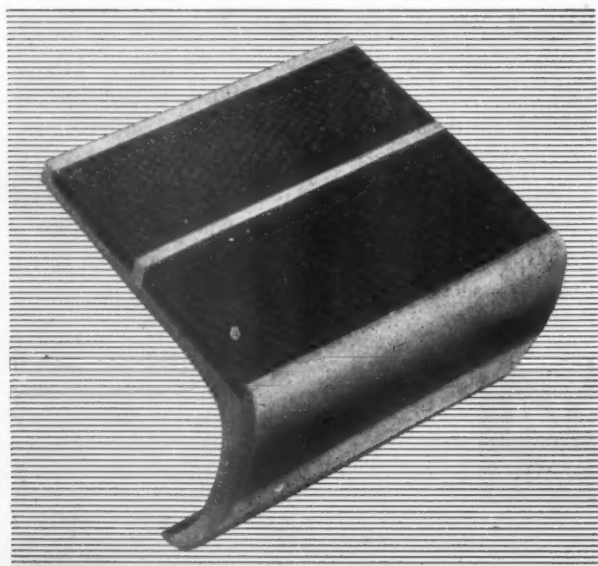
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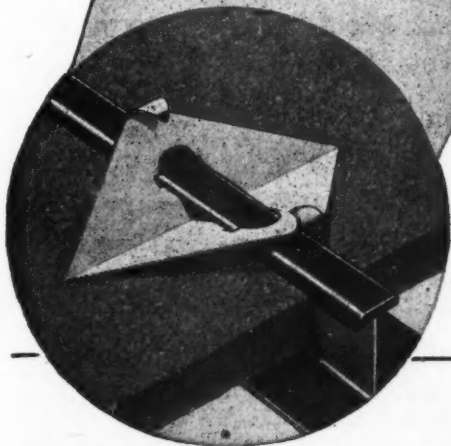
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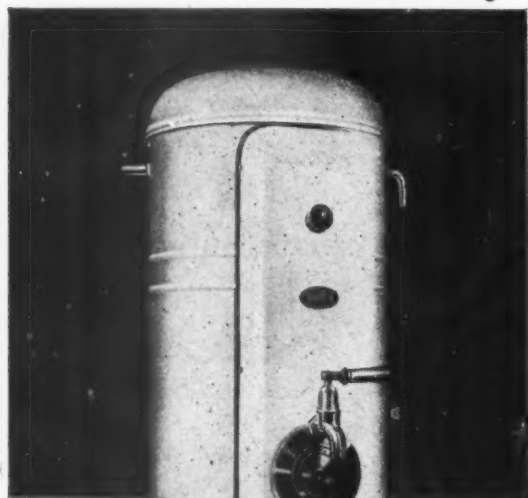
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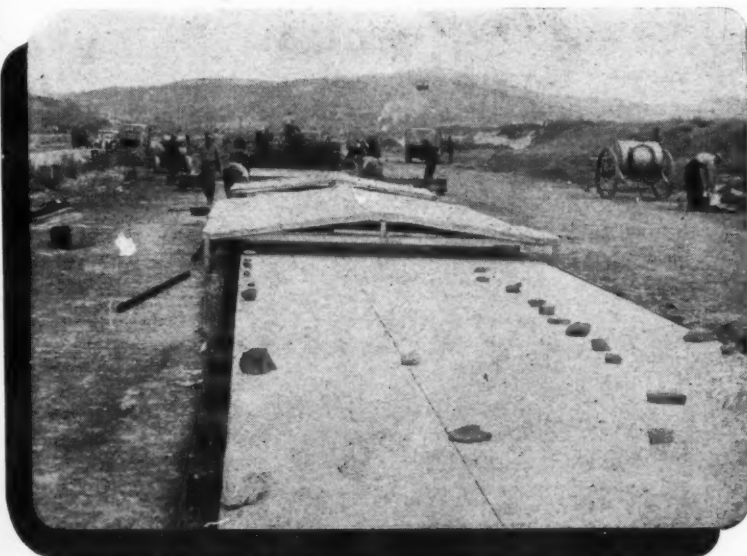


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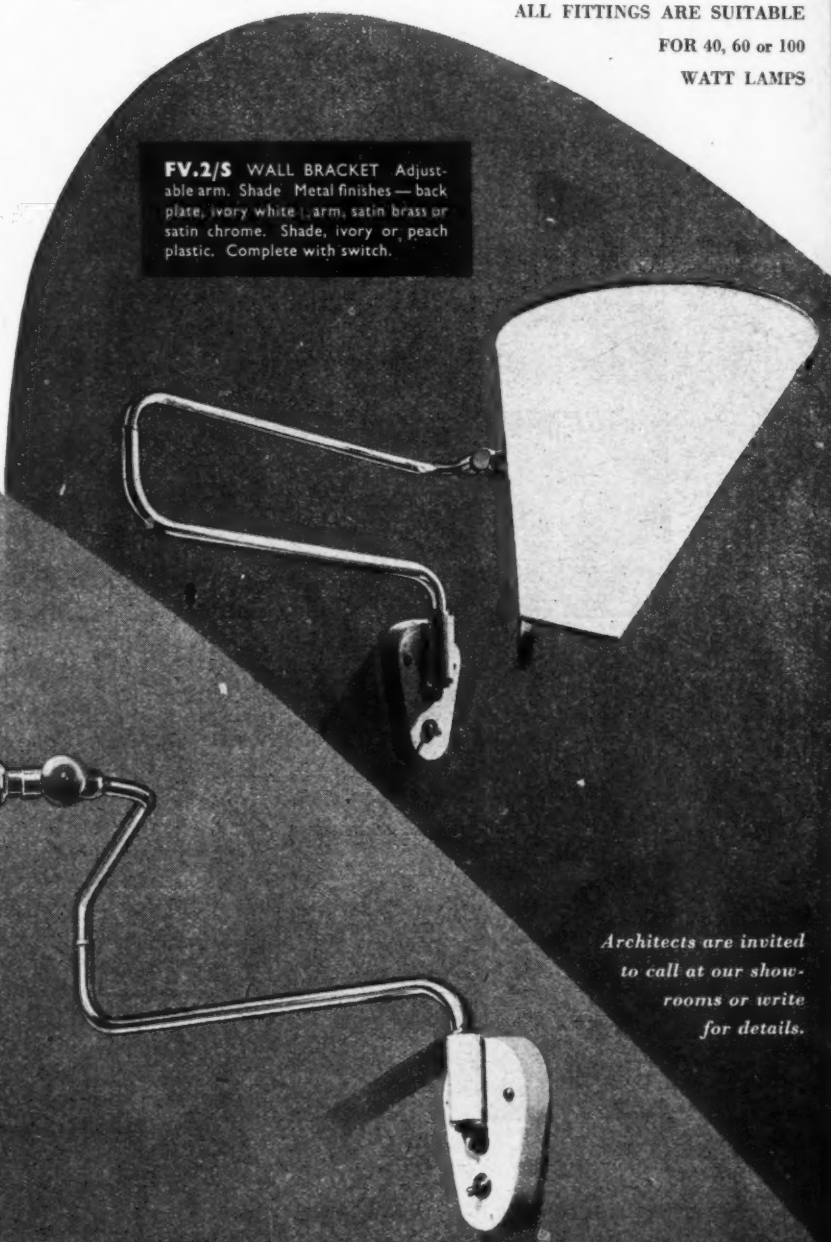
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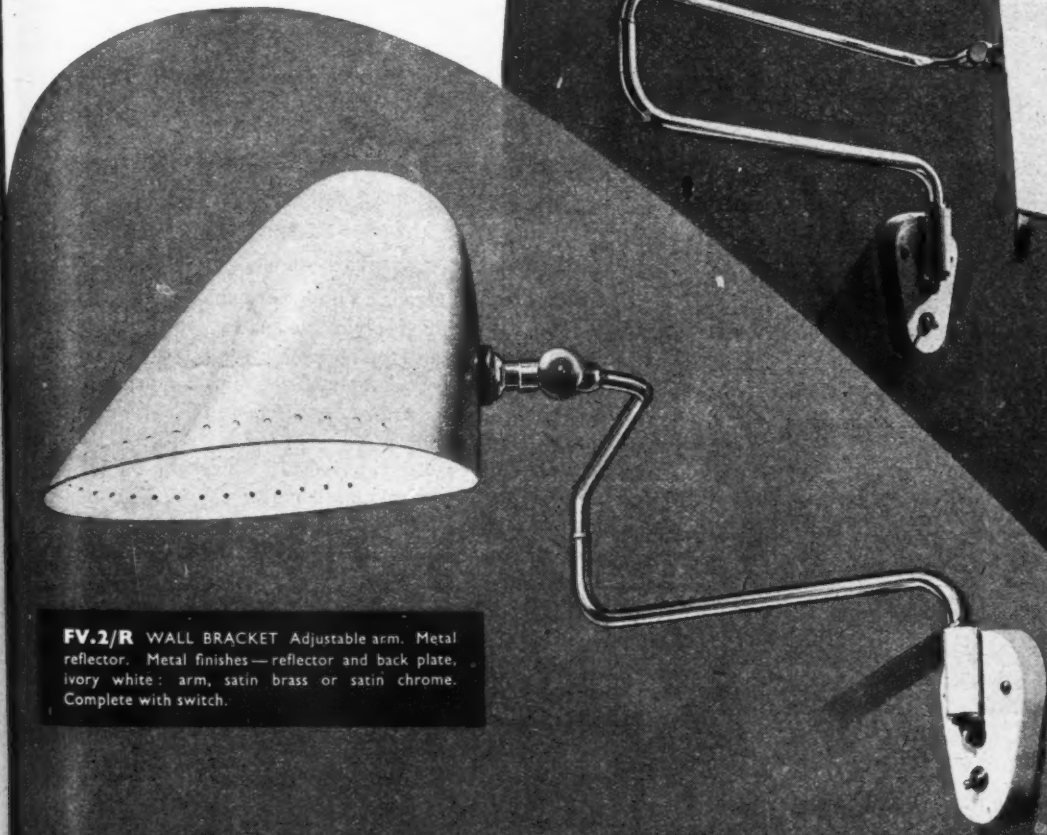
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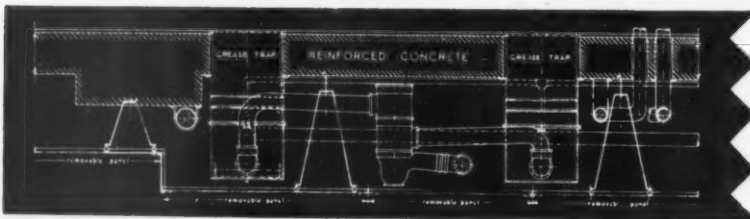
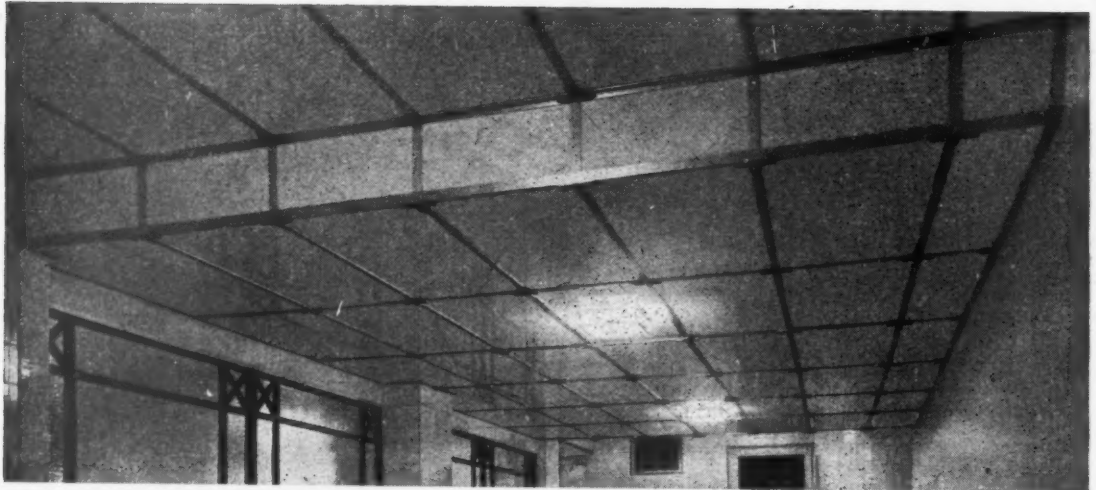
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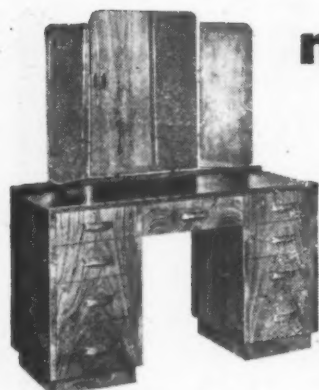
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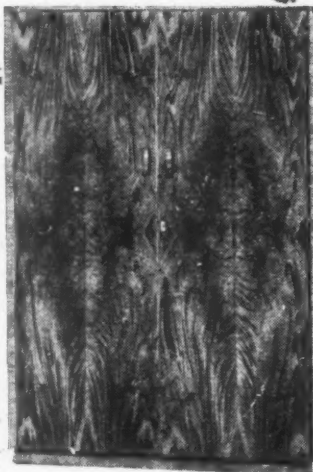
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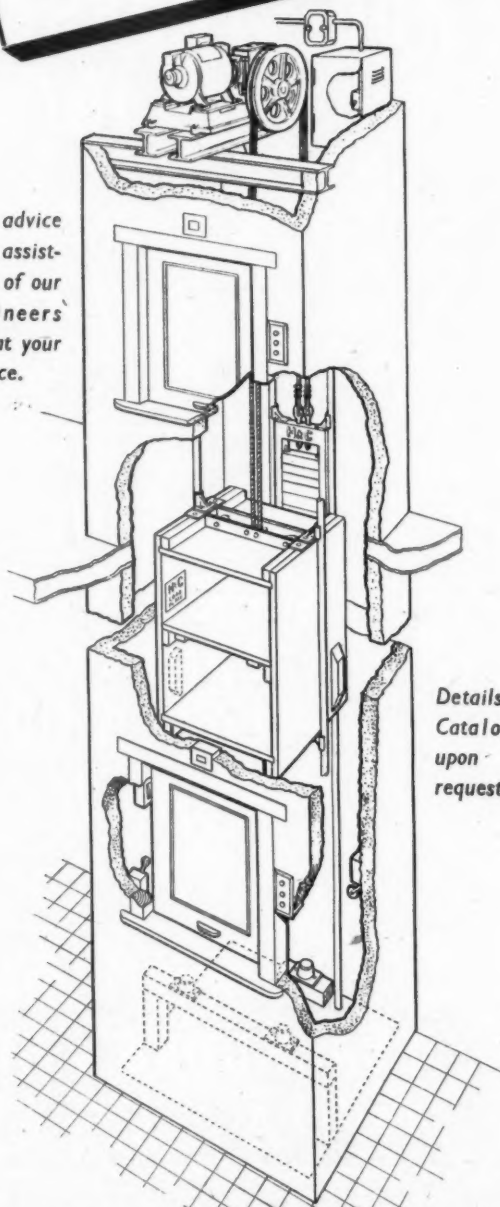
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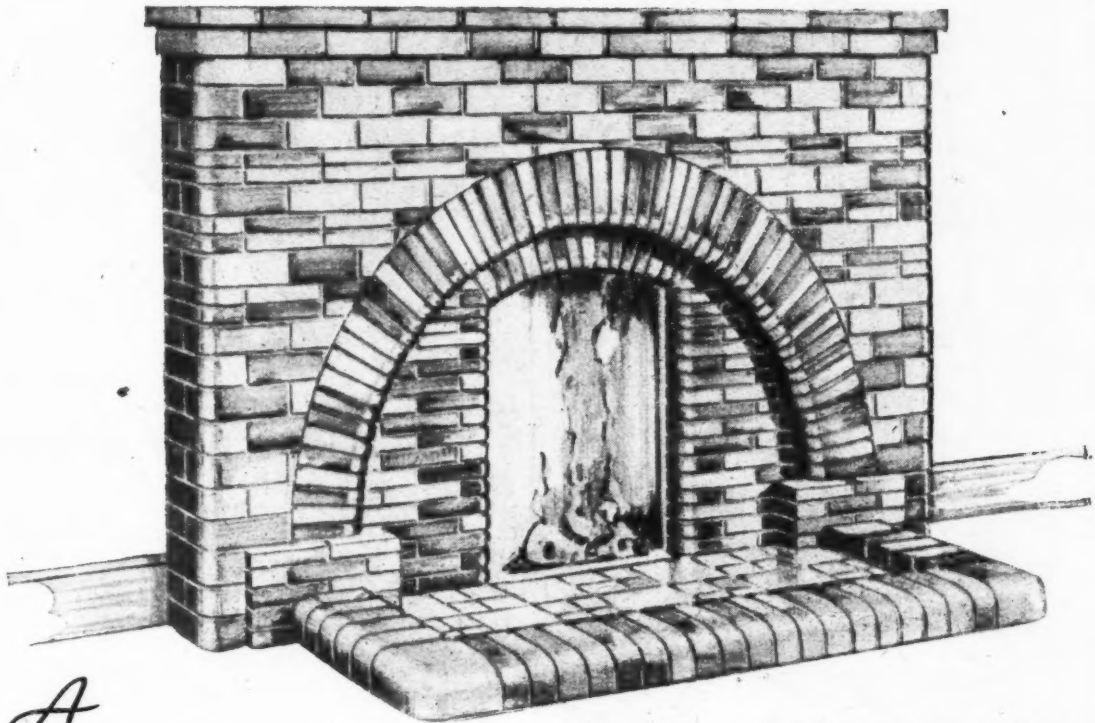
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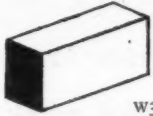


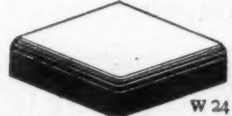
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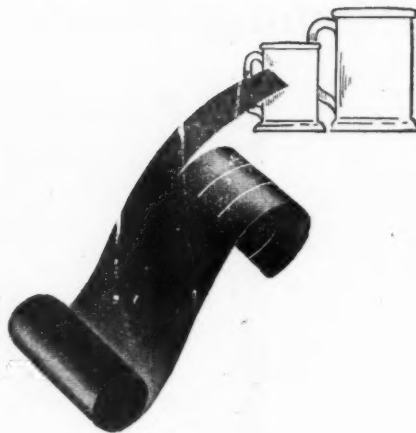
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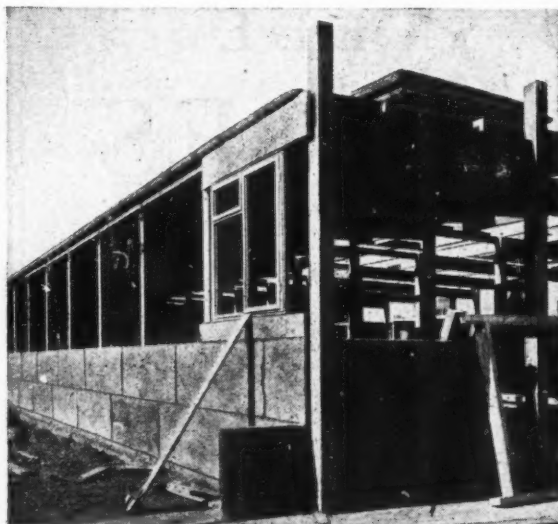
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The photograph above shows a general view of the new Barnes Civic Centre, constructed to the specification of the Borough Engineer, Mr. W. R. Shepherd, A.M.I.C.E., M.J.Mun.E., A.R.I.C.S., A.M.P.T.I.; General Contractors, Messrs. Walter Few & Sons Ltd.

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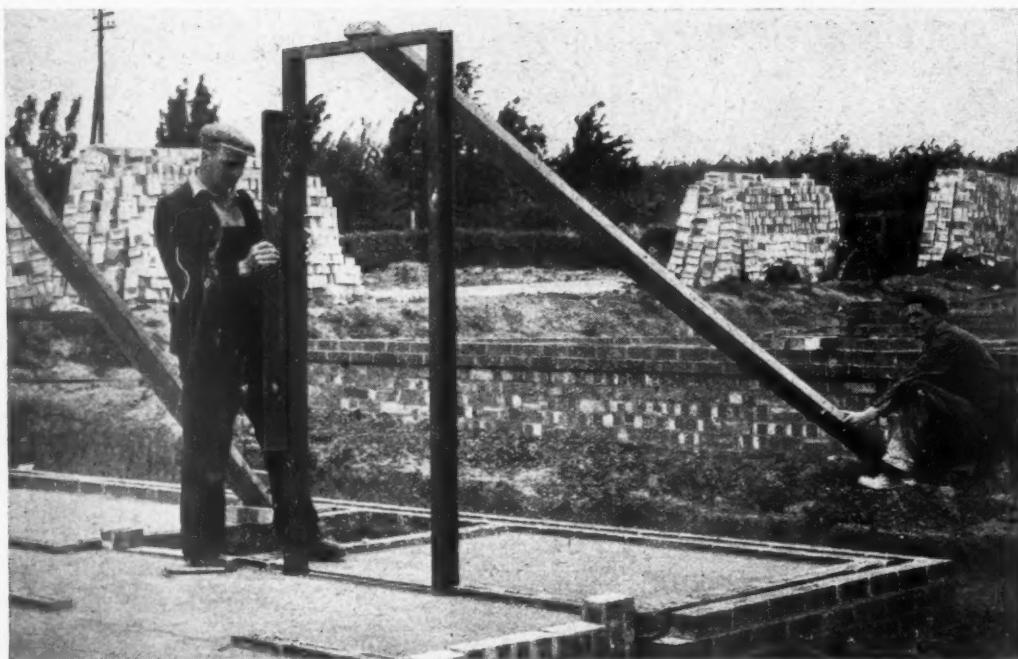
The "U" value of the partitions is 0.19 B.Th.U.'s per square foot, per hour, per 1° F. difference in temperature and the "U" value for the roof and ceiling structure is 0.17 B.Th.U.'s per square foot, per hour, per 1° F. difference in temperature. (The "U" values are calculated from data given in the Ministry of Fuel and Power's Bulletin No. 12).

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N E W S

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No. 2813 Vol. 109

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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.

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

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

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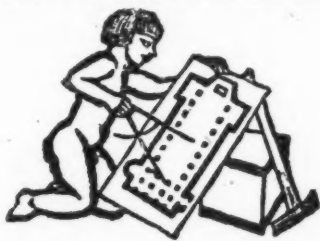
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DIARY FOR JANUARY FEBRUARY AND MARCH

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 given in the glossary of abbreviations on the front cover.

LEMORBHEY. *RIBA New Schools Exhibition.* At Lemorhey Adult Education Centre. (Sponsors, RIBA and Kent CC.) JAN. 13-18

LONDON. *A Course of Six Lectures on Timber.* Philip O. Reece. *Timber as an Engineering Material.* Jan. 27. R. T. Walters. *Framed Timber Structures.* Feb. 7. R. T. Walters. *Glued Laminated Timber Structures.* Feb. 17. H. A. Cox. *Timber as a Raw Material.* D. A. Hubbard. *Modern Adhesives—Their Present and Future Application.* March 10. B. A. Jay. *New Woods for Old—Some Alternatives to Traditional Timbers.* March 21. All lectures begin at 7.15 p.m. and will be held in the Fyvie Hall at the Polytechnic, Regent Street, W.1. (Sponsor, TDA.)

JAN.-MARCH

A Series of Papers on Industrial Design. Milner Gray. *The Industrial Designer and Consumer Goods.* Jan. 19. Gordon Russell. *The Industrial Designer's Responsibility.* Feb. 2. Robin Darwin. *The Training of the Industrial Designer.* Feb. 16. John Gloag. *British Industrial Design and World Markets.* March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

International Architectural Student Congress. Postponed until April.

Design Fair. At the Whitechapel Art Gallery. (Sponsor, CID.) UNTIL JAN. 29

Exhibition of Visual Aids. At the Murray House Exhibition Hall, Vandon Passage, Petty France, S.W.1. (Sponsor, CID.) UNTIL JAN. 29

A Town and Country Planning Act Brains Trust. At 29, Lincoln's Inn Fields, W.C.2. (Sponsor, The Chartered Auctioneers' and Estate Agents' Institute.) 6 p.m. JAN. 6

R. Gordon Brown. *Some Problems in Architectural Education.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. JAN. 11

A. F. B. Nall. *The Design and Selection of Sanitary Fittings.* At the RSI, 90, Buckingham Palace Road, S.W.1. (Sponsor, RSI.) 2.30 p.m. JAN. 12

Professor W. A. Robson. *The Task of the Schuster Committee.* At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. JAN. 12

Exhibition and One-Day Conference on Housing in the Stone Districts. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) JAN. 17

The New Social Legislation and the Family. A Conference to be held at the Conway Hall, Red Lion Square, W.C.1. (Sponsors, TCPA and British Social Hygiene Council.) JAN. 20-21

Engineering Equipment and Materials Exhibition. At the Old Horticultural Hall, Vincent Square, S.W.1. (Sponsor, "Britain's Best" Exhibition.) JAN. 26 TO FEB. 9

NFBTE Annual Meeting. In the Liverpool Victoria Friendly Society Building, Southampton Row. JAN. 27

LCC Housing Exhibition. At Charing Cross Underground Station. (Sponsor, LCC.) FEB. 7-28

RIBA Presidential Address to Students and Presentation of Prizes. Criticism of work submitted by Anthony Chitty. At the RIBA, 66, Portland Place, W.1. 6 p.m. FEB. 8

F. J. Samuely. *Force and Form: The Aesthetics of Stress Distribution.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. FEB. 15

Professor Anthony Blunt. *Mannerism in Architecture.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. FEB. 22

Ideal Home Exhibition. At Olympia. (Sponsor, The Daily Mail.) MAR. 1-26

The Architect's Place in our Education. At the AA, 34/6, Bedford Square, W.C.1. Joint members and students' evening. (Sponsor, AA.) 7.45 p.m. MAR. 2

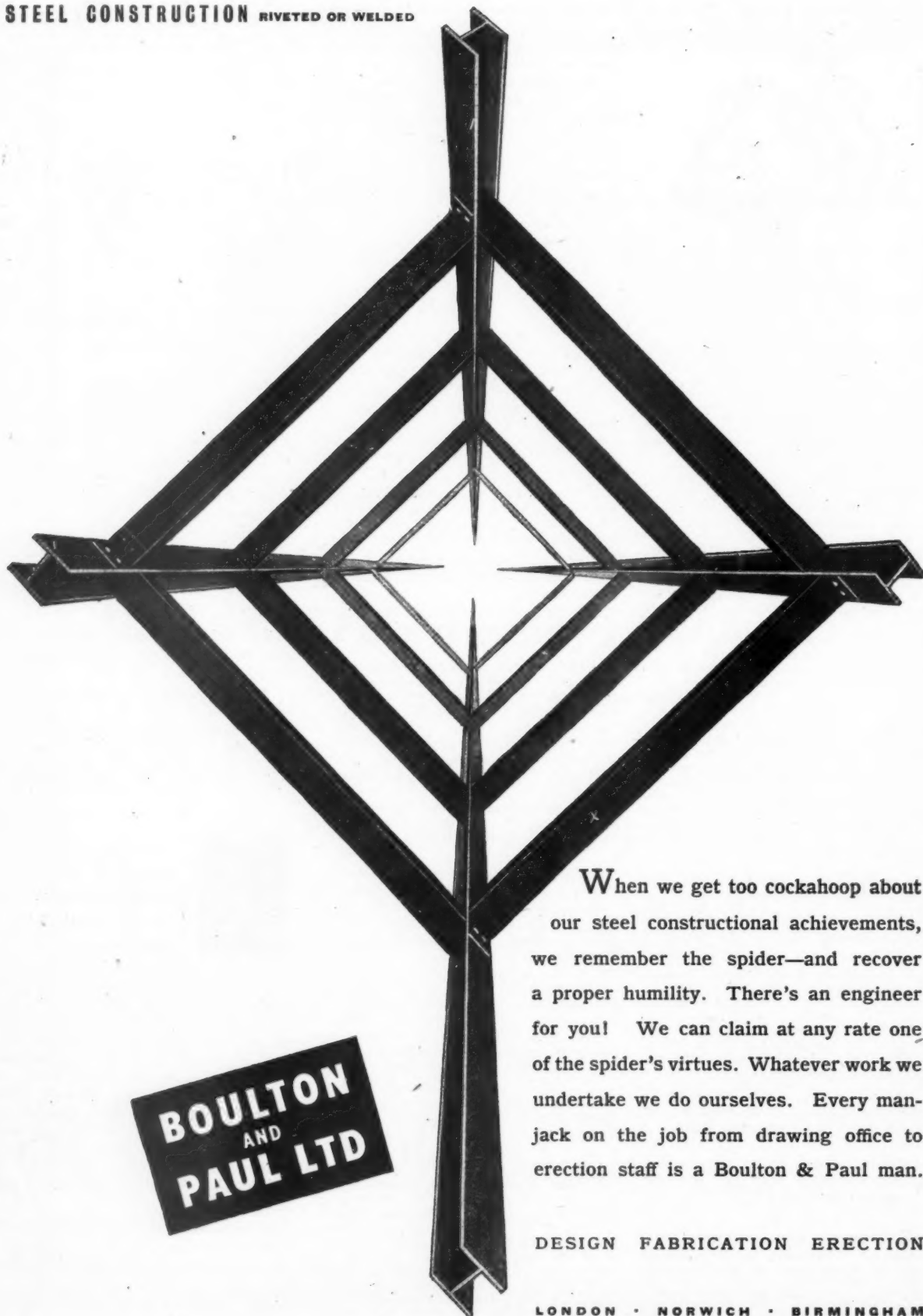
H. S. Goodhart-Rendel. *Rogue Architects of the Victorian Era.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. MAR. 8

T. P. Hoar. *The Protection of Metals against Corrosion.* At the RIBA, 66, Portland Place, W.1. (Sponsor, ASB.) 6 p.m. MAR. 22

S. Rowland Pierce. *The Architect and Planning.* At the AA, 34/6, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. MAR. 23

MANCHESTER. *Timber as an Engineering Material.* Post Advanced lectures in Building and Civil Engineering. P. O. Reece. *Loads, Designs and Stresses.* Jan. 12: R. T. Walters. *Structural Design.* Jan. 26: F. D. Silvester. *Connections.* Feb. 9: P. O. Reece. *Plywood.* Feb. 23: B. Alwyn Jay. *Posts and Preservation.* March 9: P. O. Reece. *Comparative Efficiency of Timber in Relation to Other Materials.* March 23. At the College of Technology, Manchester. (Sponsors, TDA in collaboration with the Regional Advisory Council for Technical Education.) UNTIL MAR., 1949

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From AN ARCHITECT'S Commonplace Book

CLASSICAL TOWN PLANNING IN ENGLAND AND IRELAND. [From The Volunteer Earl, by Maurice James Craig (The Cresset Press).] Symmetrical street and square-schemes like those of the Woods or Nash in England are almost unknown in Ireland, and quite unknown in Georgian times. Whatever may have been intended, nothing of the kind happened in the period. Instead of the exact correspondence of Fitzroy Square, we have Rutland Square North or Merrion Square East. There are no geometrical circles or ellipses as in Bath or London or Edinburgh; instead we have the organic curves of Harcourt Street, the gradual angles of Pembroke Street-Hatch Street, or the bold sweep of the Liffey Quays and the two canals. Almost the only exceptions to this rule are Beresford Place, behind the Customs House, and Harwicke Place, in front of St. George's Church. Yet even here, none of the perspective approaches, though straight, are ever axial, nor do they approach their subject from any precise geometric angle. There was something in the air of Ireland which prevented Irish Georgian, even when the buildings were erected from English drawings, from toeing an English or continental line. The latitude for idiosyncrasy in the ordinary street vernacular always remained greater, and when the moment arrived for a salient feature, the architect was free to make it more emphatic than it could have been in London. One has only to contrast Gandon's river-fronts with that of Chambers, even as it once was, to see that this is so.

The Council of the AA are offering the following SCHOLARSHIPS IN ARCHITECTURE in 1949.

ENTRANCE SCHOLARSHIPS: *The Leverhulme Scholarship*,* value £200 per annum; *The Minter Open Entrance Scholarship*, value £100; *The Sir Walter Lawrence Open Entrance Scholarship*, value £100; *The Metal Window Scholarship* [presented by The British Metal Window Manufacturers' Association, Ltd.], value £75 per annum; *The Natural Asphalte Council Scholarship* [presented by The Natural Asphalte Mine-Owners' and Manufacturers' Council], value £50 per annum; *The Northern Aluminium Scholarship* [presented by The Northern Aluminium Company], value £50 per annum; *The Patent Glazing Scholarship* [presented by The Patent Glazing Conference], value £50 per annum. These Scholarships, which are tenable for five years at the AA School of Architecture, will be available to students of British nationality. They will be awarded for one year, with the intention that they shall be renewed from year to year until the student has completed the course; renewal being subject to a satisfactory report of the student's progress, and to proof of the continued need for such assistance.

SENIOR ENTRANCE SCHOLARSHIP: *The Metal Window Senior Scholarship* [presented by The British Metal Window Manufacturers' Association, Ltd.], value £50 per annum. This Scholarship, which is tenable for two years at the AA School of Architecture, is open to students of British nationality, who have passed the Intermediate Examination of the RIBA, either externally or at another Recognized School of Architecture, and is for entry to the fourth year of the course, and subject to satisfactory progress by the student, will be renewed for the fifth year.

Full particulars and forms of application may be obtained from the Secretary of the Architectural Association, 36, Bedford Square, London, W.C.1, and forms of application should be received not later than April 1, 1949, for all except* (June 1, 1949).

Over 40 FURNITURE MANUFACTURERS in Scotland are taking part in the competition organized by the Scottish Committee of the CID.

It is intended to stimulate new ideas in design and production. Some of the largest manufacturers are working on entries

specially prepared by designers commissioned for this competition. Senior students attending cabinetmaking classes at one technical college have sent an entry. Judging will take place towards the end of this month, and the public will see the winning entries, together with the best examples of contemporary furniture from the US, Sweden, and Denmark, at a Glasgow Corporation exhibition in the Kelvin Hall in the spring.

The contract for the new UNITED NATIONS BUILDING in New York has been placed.

Four of the largest building contracting firms in New York have been awarded jointly the contract for erecting the 39-storey building which is to house the United Nations secretariat on the site of what is to be the permanent home of the United Nations, along the East River. It is understood that the successful bid was in the neighbourhood of \$25 million. The foundation work will be started in January, and it

is expected that the building will be ready for occupation in the late summer or early autumn of 1950.

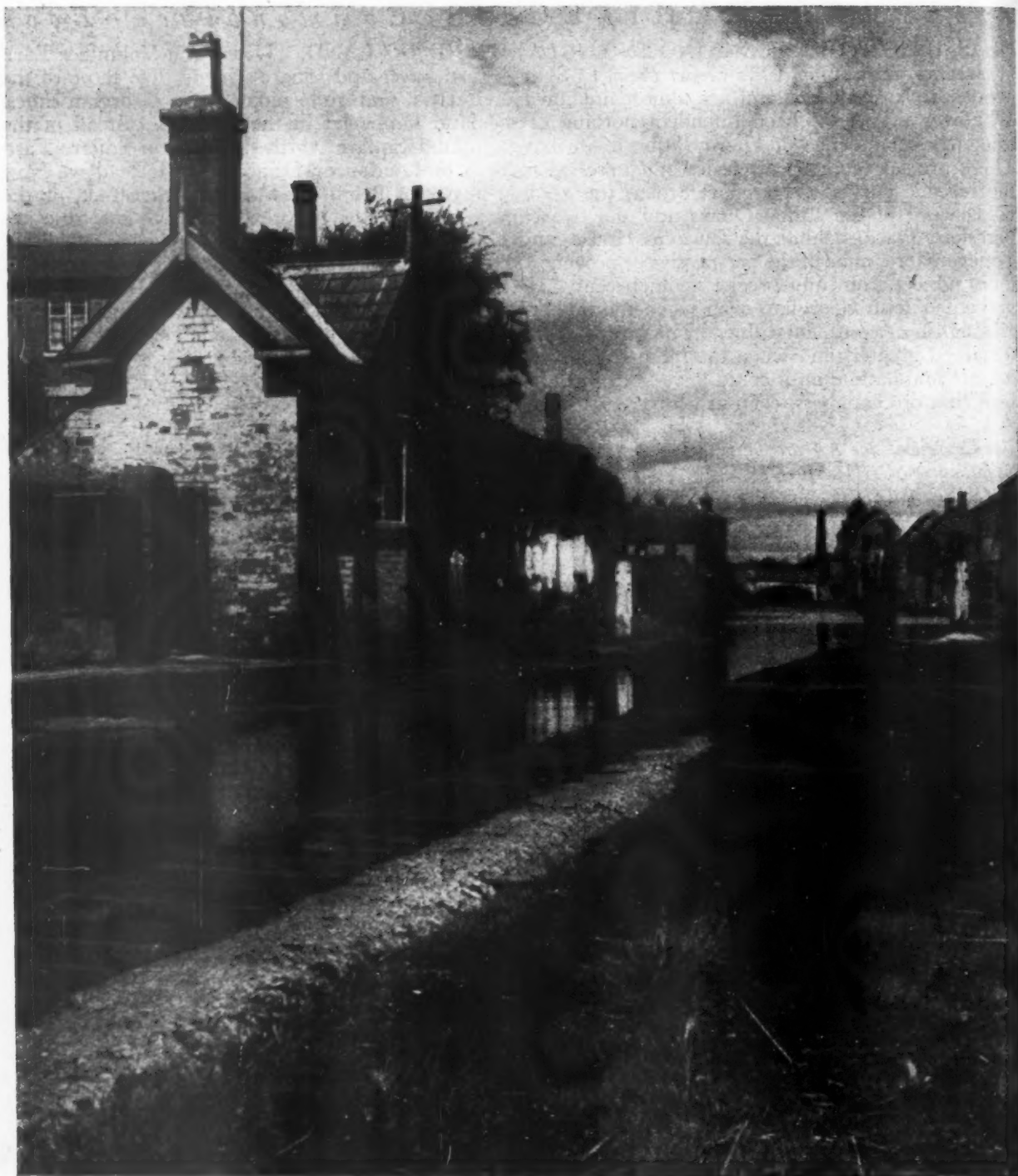
West Sussex County Council have unanimously approved its planning committee's proposals for the development of SHOREHAM AND LANCING BEACHES.

The proposals, which were recently described in the JOURNAL, are estimated to cost £523,000. Lieut.-Colonel W. R. Burrell, chairman of the planning committee, has stated that MOTCP's approval of the scheme was still awaited. For the first eleven years of the scheme there would be an average net charge to the rates of £5,500 a year, equivalent to a halfpenny rate. After this period the council expected to make an annual profit of £2,000, increasing to £24,000 within the next 23 years. The deficit for the first eleven years would be £46,000, but this would eventually be balanced by a net profit.



A photograph taken at the AA children's party which was held just before Christmas.

* In 1950 and thereafter the closing date for applications for the Leverhulme Scholarship will be April 1.



A Canal Town of the Eighteenth Century

This is a scene at Stourport in Worcestershire where the Staffordshire and Worcestershire canal joins the Severn. Stourport is a unique town in having been built almost entirely at one period as an important canal centre during the great canal era. Though the toll house in the picture is 19th century, most of the town with its stucco inns, bow-windowed cottages and finely proportioned red brick warehouses around the basins, is of a homogeneous late 18th century character. It might almost be called a New Town of the Georgian period. With the coming of

the railways Stourport lost its importance. Though traffic still uses the canal, the town survives for other reasons. Nevertheless parts of Stourport sadly reflect the general decaying condition of our whole inland waterways system. The JOURNAL's leading article this week demands their revival as a valuable national asset. It points out that canal navigation is by no means an obsolete form of transport and quotes the memorandum of the Inland Waterways Association, extracts from which are published on pages 16 and 17 of this issue.

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The NEW YEAR HONOURS.

This year's list includes the following awards:—

Knights Bachelor: John Hubert Worthington, F.R.I.B.A.

C.B.E.: C. D. Spragg, Secretary of the RIBA; Col. W. C. Devereux, managing director of Almin Ltd.; John Farleigh, President of the Arts and Crafts Exhibition Society; E. J. Smith, chairman of the Wales Joint Committee of the Building Industry.

O.B.E.: D. N. Dauntton, Assistant Chief Architect of the MOW; W. E. Fishburn, Vice-President of the NFBTE; Councillor C. G. Spragg, Midland Region Secretary, NFBTO.

★★★

The Royal Gold Medal for 1949 has been awarded by the King on the recommendation of the RIBA to Mr. HOWARD ROBERTSON.

Born in 1888, Mr. Howard Robertson studied architecture first at the AA, and later at the Ecole des Beaux Arts. After some years as an architectural assistant in America, France and England, he went into practice with J. Murray Easton in 1919, and the firm's first big success was winning a limited competition for the Horticultural Hall, Westminster, and later designed the British Pavilion for the Exhibition held in Paris in 1925. His appointments included that of technical adviser to the Secretary General of the League of Nations for the completion of the League buildings in Geneva, assessor, with Ivor Tengbom and W. M. Dudok, of the competition for the Turkish Parliament buildings in Ankara, consulting architect in the last war to the National Service Hostels Corporation, and British representative on the international board of design for the United Nations Headquarters. From 1920 until 1935 Mr. Howard Robertson was Principal of the AA School. He is the author of many articles and books on architectural subjects.

NEWS IN BRIEF

Mr. P. R. Middleton, A.R.I.B.A., DIPLO. ARCH. [LEEDS], has been appointed Architect to the Education Committee of the County Borough of Middlesbrough, Yorks. Mr. Middleton, who is 34, is at present Section Head in the Borough Architect's Department, Bournemouth.

A Dinner of the Architecture Club was held recently at the Vintners' Hall, Viscount Esher presiding. Mr. Donald Gibson, City Architect of Coventry, spoke of his proposals for the reconstruction of the city, and showed lantern slides. A discussion followed.

Belfast Corporation has appointed as Housing Architect Mr. J. W. Adamson, Deputy Borough Architect of Huddersfield. The post, which is subject to the approval of the Northern Ireland Minister of Health and Local Government, carries a salary of £1,500, rising by two annual increments of £100 and one of £50 to a maximum of £1,750.

Mr. F. Mellor, Borough Architect of Widnes, Lancs., has been chosen by the Development and Estates Committee for recommendation to Portsmouth City Council as City Architect in succession to Mr. Adrien J. Sharp, who is retiring.

The French Government have conferred the Legion of Honour on Sir William Halcrow and Mr. W. J. E. Binnie, Past-Presidents of the ICE, who were invested by the French Ambassador on Thursday, November 18.

REVIVE THE WATERWAYS

THE Basingstoke Canal, part of our nation-wide network of waterways, is up for sale. The public revelation of its strange history, its present sorry condition and its doubtful future, so typical of our canals, should add to the growing interest in, and concern for, our whole inland waterway system.

The public is at a late hour coming to learn of the appalling neglect, and indeed deliberate sabotage, which have been suffered by a great and valuable national asset for over a hundred years. This knowledge and much of the growing interest in canals can be directly attributed to the work of a small, disinterested but lively body called the Inland Waterways Association which was formed two years ago with the object of revitalizing our inland navigations. Its aims and recommendations are set forth in a memorandum, extracts from which are published this week in our Societies and Institutions column.

Ours is the only European nation which does not make full use of its canals. Ever since the advent of railways, as the Association points out, our waterways have been the Cinderella of inland transport services, and "the extent of public ignorance and misconception concerning not only the potentialities but the very existence of inland water communications is astonishing." The commonest misconception is that water transport has been made virtually obsolete by rail and road developments and that on this account it is destined soon to disappear. The IWA Memorandum gives very good reasons why the two thousand miles of navigations, which are all that remain, deserve an important place in any national transport plan. The reasons can be summarized thus:

- (1) Water transport is economical. A rough estimate shows that it is less than one third as costly as rail transport. It is said that a single horse which can move 2 tons on level road can move 10 tons by rail or 80 tons by water.
- (2) Inland waterways, whether navigable river or "cut," have other functions than that of carrying commercial traffic. They act as important agents of water supply, conservation and drainage. They form a landscape amenity and are the habitat of fish and other wild life. Moreover, they could be used to a growing extent for pleasure traffic. With the coming of the holidays-with-pay scheme and the expectation of more and more leisure time as mechanization grows, this is no minor consideration. Under proper management the use of waterways for pleasure would not only alleviate holiday congestion but would add greatly to that intangible asset, so difficult to assess but so vital to national prosperity—the health and happiness of the people. Many of the canals least suitable for commerce are most suitable for pleasure; they pass through countryside of great scenic beauty and are readily accessible from areas of dense population. The most obvious example is the Welsh section of the Shropshire Union Canal, perhaps the most lovely of all canals, which many consider should now

come under the control of the National Trust. Another relevant case is the Macclesfield and Peak Forest Canal.

Most of our waterways have now been nationalized, but up to the present time there is no sign that any long-term plan for their full use is under consideration by the authorities. In fact there are indications that the old bad tradition of slow strangulation of the canals which has been maintained by the railway companies over the past century has not entirely ceased. The extraordinary obstructionism which still attends any attempt to use the Kennet and Avon Canal for either commerce or pleasure is a case in point.

To allay the fears about the future of our waterways, the Transport Board should at once give their official assurance that all will be well with them and that a scheme is afoot for their full co-ordination, modernization and maintenance under a general transport plan on the lines recommended by the Inland Waterways Association.



The Architects' Journal

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N O T E S

&

T O P I C S

Grand Old Man with a lifetime of achievement behind him. Wright, of course, goes on building as energetically as a youngster to this day, but then he has never conformed to any rules. Robertson will, no doubt, qualify as a Grand Old Man one day, but the whole profession will look forward to years of achievement from him before that happens.

Even as I write the names of further architectural celebrities of 1949 hit the headlines. My congratulations to Hubert Worthington on his knighthood and to C. D. Spragg, the RIBA's indefatigable secretary, on receiving the C.B.E.

THE NEW ENTRY

Grandfather Yerbury enjoyed the AA

children's party as much as anybody. Not only did it enable him to meet a number of young people, who will, if Gordon Brown's calculations are correct, be qualifying between 1970 and 1975, but there was an admirable tea and an exciting puppet show. I fear that he must have been very disappointed when Father Christmas, who had travelled all the way from the Building Centre in whatever conveyance a twentieth century Santa favours, passed him over in the queue for presents.

Architects' children struck me as being a lively lot, and their capacity for enjoyment suggests that some, at any rate, of the two new architects to be born every day (if the present rate is continued) will be no slouchers.

FURNITURE DESIGN COMPETITION

Now that the Board of Trade has given the furniture makers a reasonable degree of freedom, I'm wondering how many of the pre-war horrors are likely to be revived, and hoping (I expect forlornly) that most of them won't sell. At the same time it is encouraging to see that Scottish furniture manufacturers have pledged full support to a design competition sponsored by the Scottish Committee of the CID, to be judged by Messrs. Brian O'Rourke, Ernest Race and David Booth as designers, with Messrs. Crofton Gane, Geoffrey Dunn and Ernest Taylor representing the retailers. If only the winning designs can be made at a

THE ROYAL GOLD MEDAL

My felicitations to Howard Robertson on becoming the first architectural celebrity of 1949. It gives me pleasure to be the first to announce that, on the advice of the RIBA, the King has awarded him the Royal Gold Medal for Architecture; so the Medal, for this year at least, will not be numbered among our exports.

I have not been able to look up the records, but I think Robertson must be one of the youngest-ever recipients of the Medal. He is just 60. Auguste Perret, who got it last year, was 75, and, like others who have recently had it—Frank Lloyd Wright and Sir Charles Reilly, for example—was a



The first children's party since 1939, was held at the AA on December 21. Left, Miss Diana Gordon Brown in the arms of Mr. F. R. Yerbury. Right, Santa Claus (Mr. Gontram Goulden) helped by Alice of the AA Pantomime (Miss Rosemary Gold) distributes presents.



reasonable price, competitions of this kind ought to do a lot of good. Nowadays, it's depressing to see utility designs with planted-on mouldings and coloured plastic motifs on the wardrobes.

JO'BURG JOSTLE

An interesting sidelight on the recent drastic reduction of immigration into South Africa comes from a correspondent. It seems that one of the contributory reasons is the acute overcrowding in many cities. While in London the Press continually reminds us that Government Departments occupy houses as offices, a preliminary survey conducted in Johannesburg by the municipal town planning inspectors has shown that in that city there has been wholesale (and secret) conversion of flats to industrial uses. Apparently entire floors designed as flats in four buildings in the central area, two 10-storey, one 6-storey and one 4-storey, are being used as factories, dressmakers' workrooms, and so on.

As one indignant city councillor pointed out, only a few of the concerns have been working prior to September, 1941, when the Town Planning Ordinance came into effect; the majority are, in fact, defying this ordinance. An alarming picture will probably be revealed when all the 112 blocks in the central area have been surveyed. Some 80 per cent. of the accommodation in the blocks referred to above, it is repeated, could or should be made available for housing. Whether it will be remains to be seen, but meanwhile I would advise any prospective emigrants to provide themselves with a caravan unless they want to bed down among sewing machines. . . .

And while they are about it they might do worse than read through "So You Want to Build"—a guide to building in South Africa by A. R. Wilcox.* Much of the contents is addressed to the layman, but there is a good deal of useful information provided on South African building methods and technique, including what to do about flying ants and how to borrow cash. Ex-AA boys and girls may be interested to learn that the author's architectural advisers (and

*Distributed by Central News Agency, Ltd., Johannesburg. 15s. net.



Awarded the Royal Gold Medal for 1949: Mr. Howard Robertson. See Astragal's comment on the facing page and some illustrations of his current work on page 8.

illustrators) are Messrs. Mallows and Meadley—well known advisers in their day (nearly twenty years ago) on plenty of subjects.

POOR PUB-LICITY

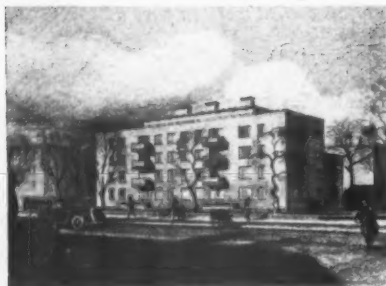
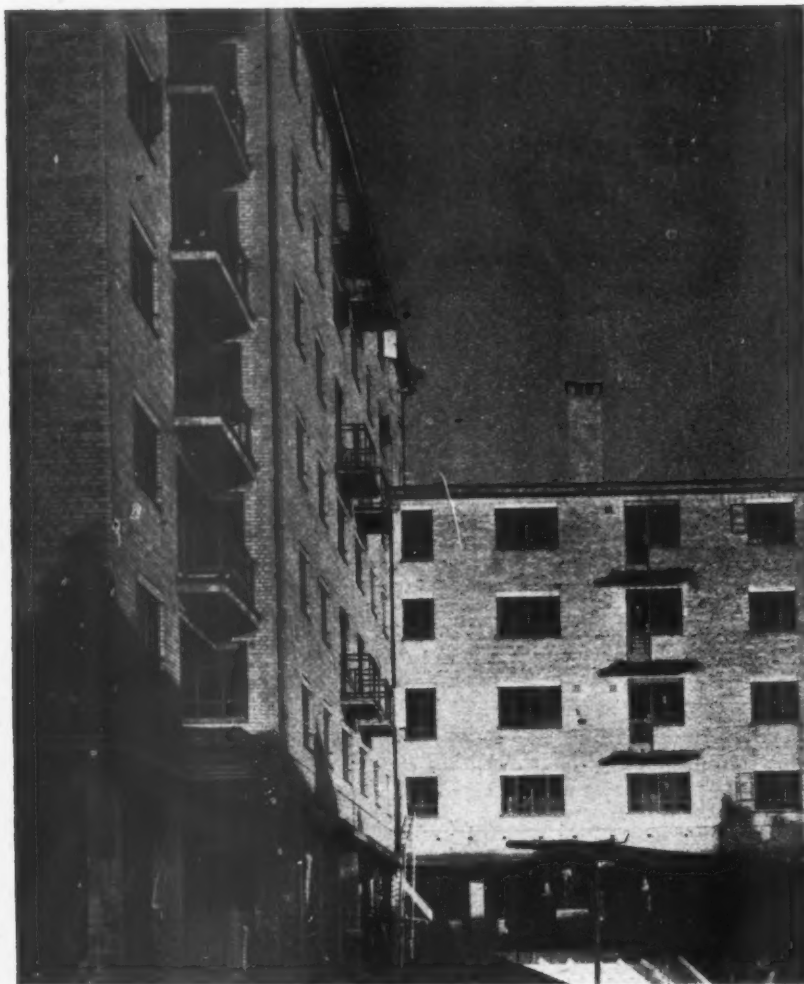
It seems to me that far too much fuss is being made over the fact that the pubs in the New Towns are to be run by the State; in almost every bar nowadays there seem to be propaganda sheets inviting me to sign a protest and write to my MP because all pubs might be nationalized. I won't be able to play darts, I shall have to drink sitting down, and anyway look at Carlisle. Now, I see nothing wrong with being able to sit down to drink, but I doubt if I can be made to if I'd rather not, and if the absence of a dart-board slows up sales, I suspect that a board will in due course appear. And if in

Carlisle they encourage people to move away from the bar when they've been served, I should think it a good idea if I were standing in the usual queue.

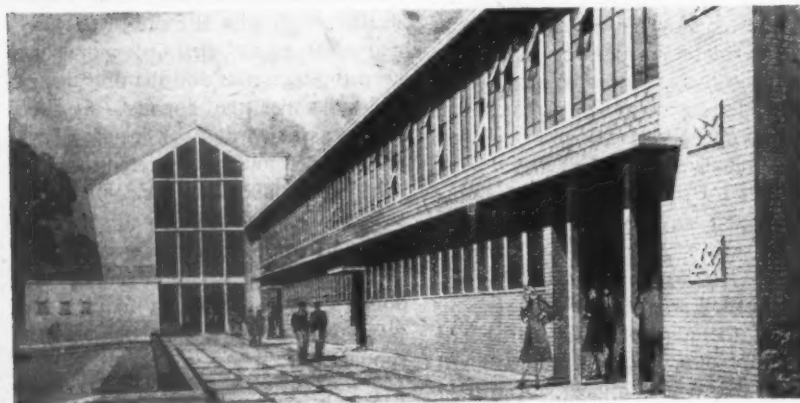
But to me the most futile argument of all is the sob story about mine warm-hearted host, who is more often surly and unshaven and does little more than keep the cigarettes and the proprietary whisky under the counter. I have always assumed that the licensing laws are designed and administered to make drinking as difficult and uncomfortable as possible, and it's something of a miracle that so many pubs should be such cheerful places. But although I doubt if the State ought to own the pubs, I'm not sure that the brewers should either.

ASTRAGAL

RECENT DESIGNS BY HOWARD ROBERTSON



Mr. Howard Robertson is this year's recipient of the RIBA's Royal Gold Medal (see page 5, and Astragal's comment on page 6). Illustrated on this page are three new buildings on which the partnership of Easton and Robertson is working and in the designing of which Mr. Howard Robertson has taken special interest. Above, a large housing scheme off Church Street, Marylebone, which is nearing completion. Left, a project for a housing scheme at St. Johns Wood Road, Marylebone, and below, a sketch of the large Technical College at Hatfield for the Hertford County Council on which work has recently begun.



LETTERS

Fifteenth Year Student

The Future of Students

SIR.—May I, as a fifteen yearer and still plodding away, attempt to answer your correspondent "Fourth Year Student," and even the authoritative statement of Sir Owen Williams?

The former outlined some way of eliminating the superfluous students other than the RIBA's raising of their examination standards, but he was not very specific. I have a shrewd suspicion that the RIBA does its best, and what more can we ask? Perhaps on the other hand, Sir Owen has been too numerically specific. After all, even if 90 per cent. of those trained (including myself) must ultimately be forced to conclude: "My reason for existing must be found elsewhere than professing to be an architect," have we really wasted our time any more than a Tory backbencher? Be it remembered that some of the greatest professionals, including Wren and William Kent (with his leaping the fence instead of trying to hedge it), all changed their careers in so-called "middle age." And why not? Take heart you Twentieth Year Students. American scientists have discovered that man's normal age is 120 years.

But, dear friend of the "Fourth Year," why pick on the invariably excellent examples in the journals which might possibly "fail" had they been done in school? If some of them ought not to succeed in reaching the "trowel stage," what are we students doing to lift the fog of apathy? Besides, most of the work done by Councils which I have seen illustrated has invariably been vastly better than that which is not. Look at the delightful work of Bath, Warminster and Westbury, Downham, Lodden, Coventry and so on? Somebody said in a letter in this JOURNAL (June 24, 1948) something to the effect that the alert student should dictate his own artistic sanity (if he has any) to raise the "popular taste." My point here is that the flourishing enthusiasm for the "Mistress of the Arts" need not be "a colossal and inexcusable waste of effort" as Sir Owen suggests (not without his honest point of view, of course). Neither need the Fourth and Fifth Yearer break their hearts even if they have to open up a shop for the time being, and labour for a while "for the meat that perishes."

When, ah when! will the sleeping army of potential (redundant?) critics so arouse themselves that the Borough and City Architect will be demanded as much necessities as civil engineers? And when will the unqualified bungalow-concocter be forced into selling his hot potatoes again?

One other point. God is the only real Architect who has seen His work perfectly carried out. He is able to dispose his draughtsmen far better than we can.

FIFTEENTH YEAR STUDENT



Typical houses facing the green.

HOUSING AT LYDD, KENT

BY CLIFFORD E. CULPIN

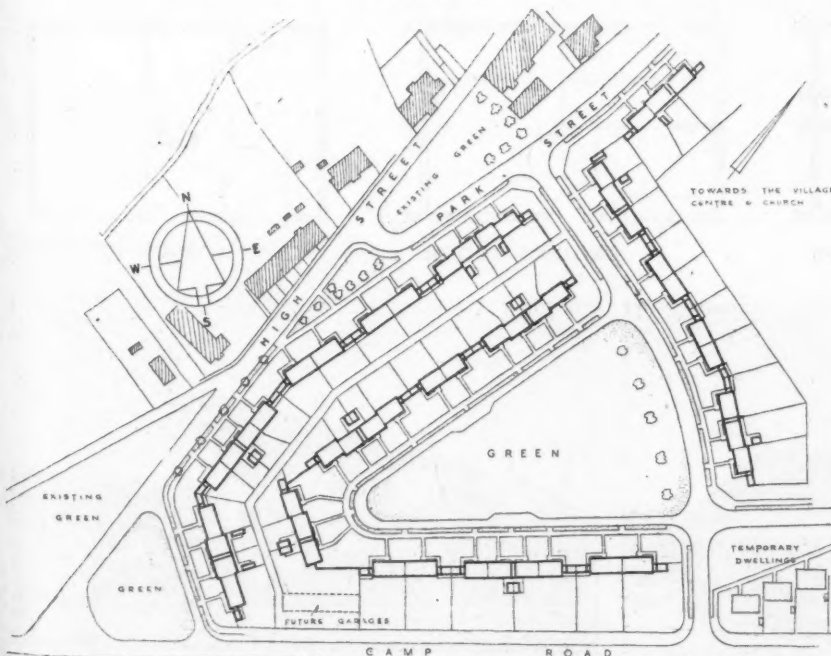
GENERAL.—Fifty traditional houses for the Lydd Borough Council. Of the two types of plan suggested by the architect—living room + dining space + working kitchen or living room + dining

kitchen + utility room, the Council chose the former, but agreed to one block being built to the latter plan for comparison at completion so that future stages of the scheme could be decided accordingly. As a result of the comparison, the former plan was still much preferred.

SITE.—The site is flat and the soil shingle on which practically nothing will grow. Private gardens were kept small and as many houses as possible were given, as required by the client, an outlook over a green. The site is severely windswept. All the blocks were therefore linked together with walls and connecting outbuildings.

PLAN.—Seven basic types of plan were evolved and these were modified and arranged into eleven different block designs, in twos, threes and fours. Orientation was carefully considered.

CONSTRUCTION.—The subsoil being loose shingle, R.C. raft construction was adopted, with a 2-in. layer of no-fines concrete where floor-finishes are granolithic or coloured asphalt, and of "nailable concrete" where wood-boarded. Walls are cavity, with multi-red facings externally and



SITE PLAN

4-in. -clinker blocks internally. First-floor floors and roofs are of traditional timber construction.

ELEVATIONAL TREATMENT.—The cottages near the site are Georgian and the architect aimed at producing a Georgian character in the houses by the use of double-hung sashes, bracketed door hoods, and tiled roofs of $47\frac{1}{2}^\circ$ pitch.

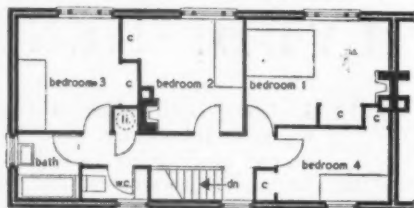
INTERNAL FINISH.—Living-room floors are boarded; halls, dining-spaces and kitchens are of coloured asphalt. Walls are distempered, and part-tiled in bathrooms and kitchens. Woodwork is stained in light tones and flat varnished except in bathroom and kitchen, which are painted. Flush, painted dressers are provided.

SERVICES.—Living-rooms have open coal fires. Heating in dining-space is from the hot-water boilers. The general contractors were A. O. Laird, Ltd. For list of sub-contractors, see page 22.

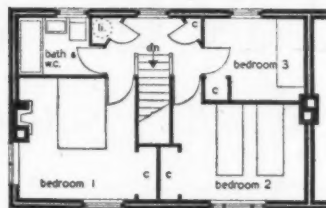
Right, looking towards Park Street from the south. Below, left, protecting walls linking blocks, right, houses on the High Street.



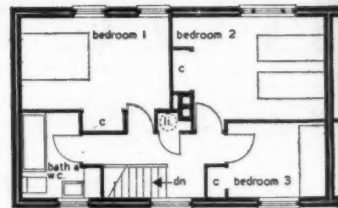
TYPICAL PLANS : (Scale: $\frac{1}{8}'' = 1'0''$)



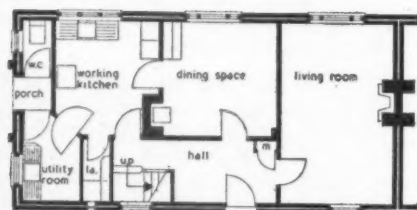
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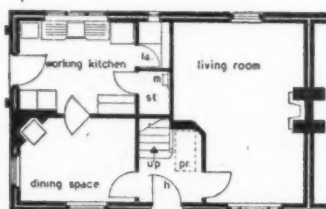
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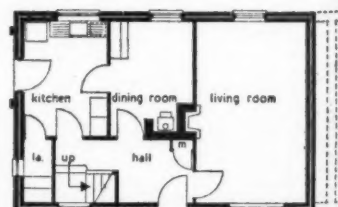
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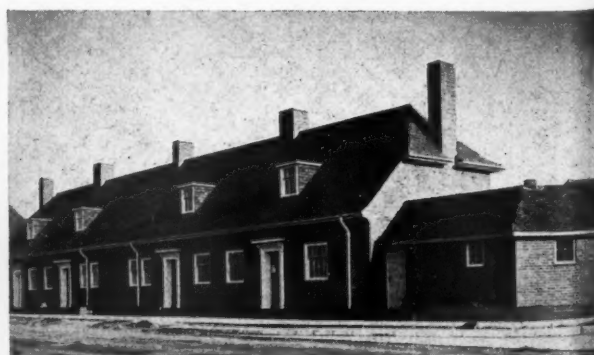
GROUND FLOOR



GROUND FLOOR



GROUND FLOOR



HOUSING AT LYDD : BY CLIFFORD E. CULPIN



KITCHEN FOR CORPUS CHRISTI COLLEGE, CAMBRIDGE

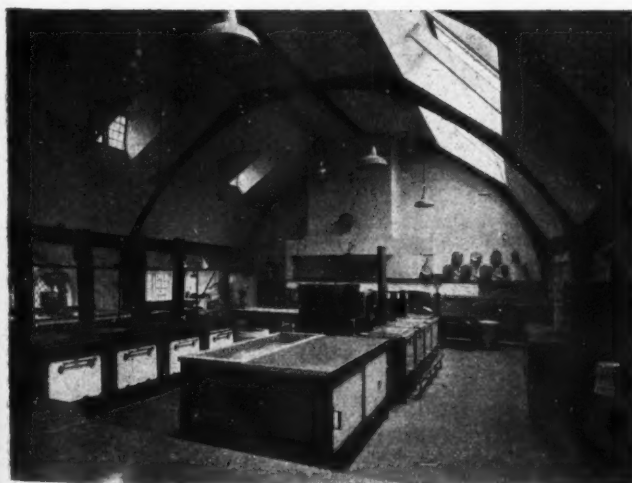
DESIGNED BY ERNST L. FREUD
CONSULTING ENGINEER, H. HAJNAL-KONYI

GENERAL.—In 1945 the College decided to carry out much-needed improvements to the kitchen quarters, improvements which had been delayed by the war.

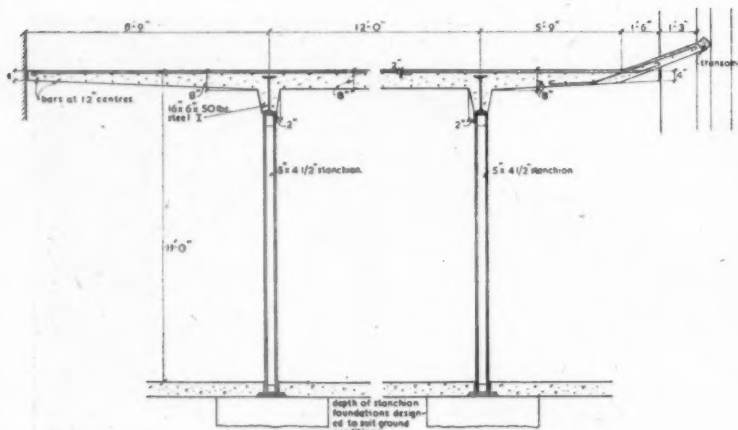
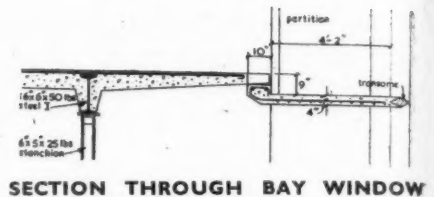
The existing kitchen occupied the Old Hall, one of the most ancient buildings of the College, situated in the Old Court and having its ancillary rooms in the wing towards Free School Lane.

The problem was complicated by the need to avoid new building; to leave the external appearance of the existing unchanged, and the fact that the walls of the Old Hall, dating from the late 14th century, should not be endangered by new construction.

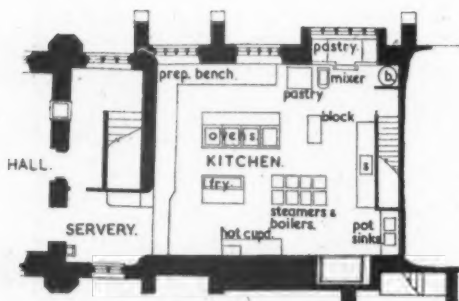
PLAN.—The task was achieved by the following means:—The Old Hall was horizontally divided by a new floor thus gaining an additional 900 sq. ft. of floor area



Above, view of the Old Hall from Old Court. The bay and the two big windows show no signs of the new floor constructed behind them. Left, the kitchen from the service counter.

TRANSVERSE SECTION (Scale: $\frac{1}{8}$ "=1'0")

SECTION THROUGH BAY WINDOW

NEW FIRST FLOOR (Scale: $\frac{3}{8}$ "=1'0")

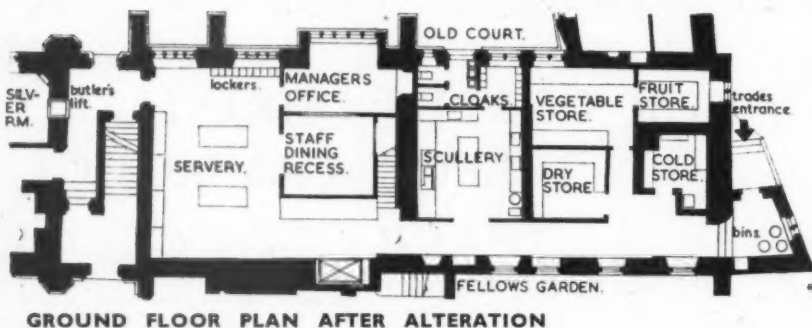
for a new kitchen, which is well lit and ventilated by new dormers and a large skylight. This kitchen is on the same level as the Hall and connected to it by a servery with counters. Vertical communication was improved by the installation of a passenger/goods lift between ground and first floors, a service lift connecting cellar, silver room and Hall, and by the construction of a secondary staircase. Boiler room and coal store were eliminated by converting the kitchen equipment to gas, and the kitchen wing was connected with the existing central heating system of the College.

The position of the tradesmen's entrance in Free School Lane was changed and the ground floor generally replanned, thus providing new and more generous store rooms, the much-needed cloak room and dining room for the staff, a light office for the kitchen manager in the bay, a modern equipped scullery, and a ground floor servery to distribute meals to outside rooms in the college.

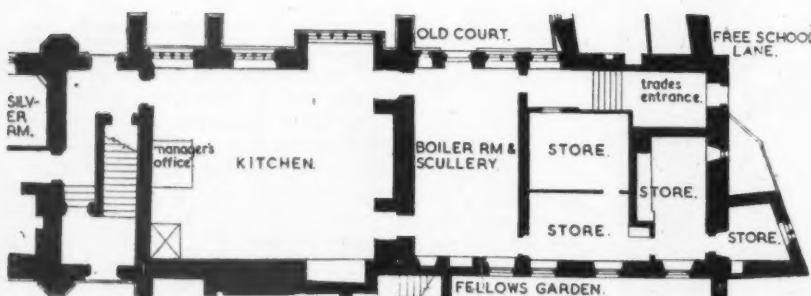
CONSTRUCTION.—The new floor is supported, except in the bay window, on six steel stanchions, built on new foundations which are quite independent of the existing structure. The stanchions are hidden by partitions and support R.S.J.'s running in the longitudinal direction of the room. These joists are cantilevered at both ends. The concrete floor is cantilevered from the R.S.J.'s on both sides and is tapered towards the external walls. It was cast on expanded metal, which was used as shuttering and forms the bottom reinforcement of the central span. No floor load is transmitted to the existing walls.

In order to match the transoms of the two big windows above floor level a small part of the adjacent floor area was built with a slight slope, as may be seen from the cross section. In this way the daylight in the ground floor was improved and it was made impossible to see the edge of the floor from outside, which would have affected the appearance of the building.

The two stanchions at the staircase have been extended 8 ft. above the floor to carry the upper part of the heavy chimney which is no longer used. The lower part of this chimney has been cut out to make room for the staircase, but it would have been too expensive to demolish the whole chimney.

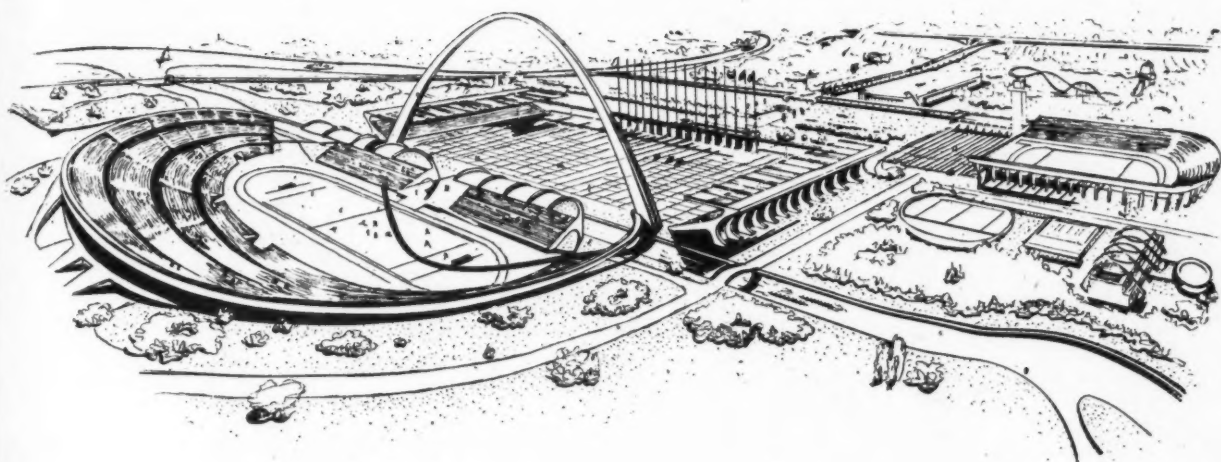


GROUND FLOOR PLAN AFTER ALTERATION



GROUND FLOOR PLAN BEFORE ALTERATION

KITCHEN FOR CORPUS CHRISTI COLLEGE



From the south-west.

SPORTS CENTRE FOR LONDON

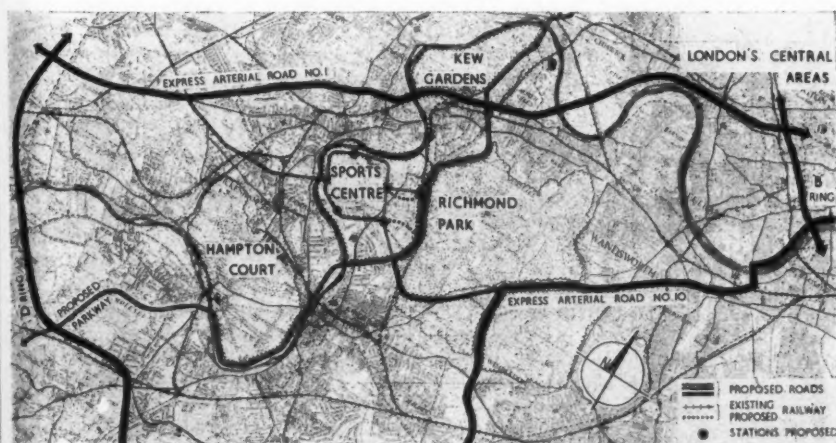
A PROJECT BY T. LESKI

GENERAL.—This is the thesis design of an architectural student of the Polish University College and is described by W. Smigielski, professor of town planning at the college. The County of London Plan recommends the creation of six sports and recreation centres, serving various districts of London. The purpose of this scheme is to provide a main sports centre, which would serve London as a whole, and cater for national and international events. The ideal conditions for this centre are to be found on the banks of the Thames at Richmond. The site, of about 1,200 acres, enclosed on the west

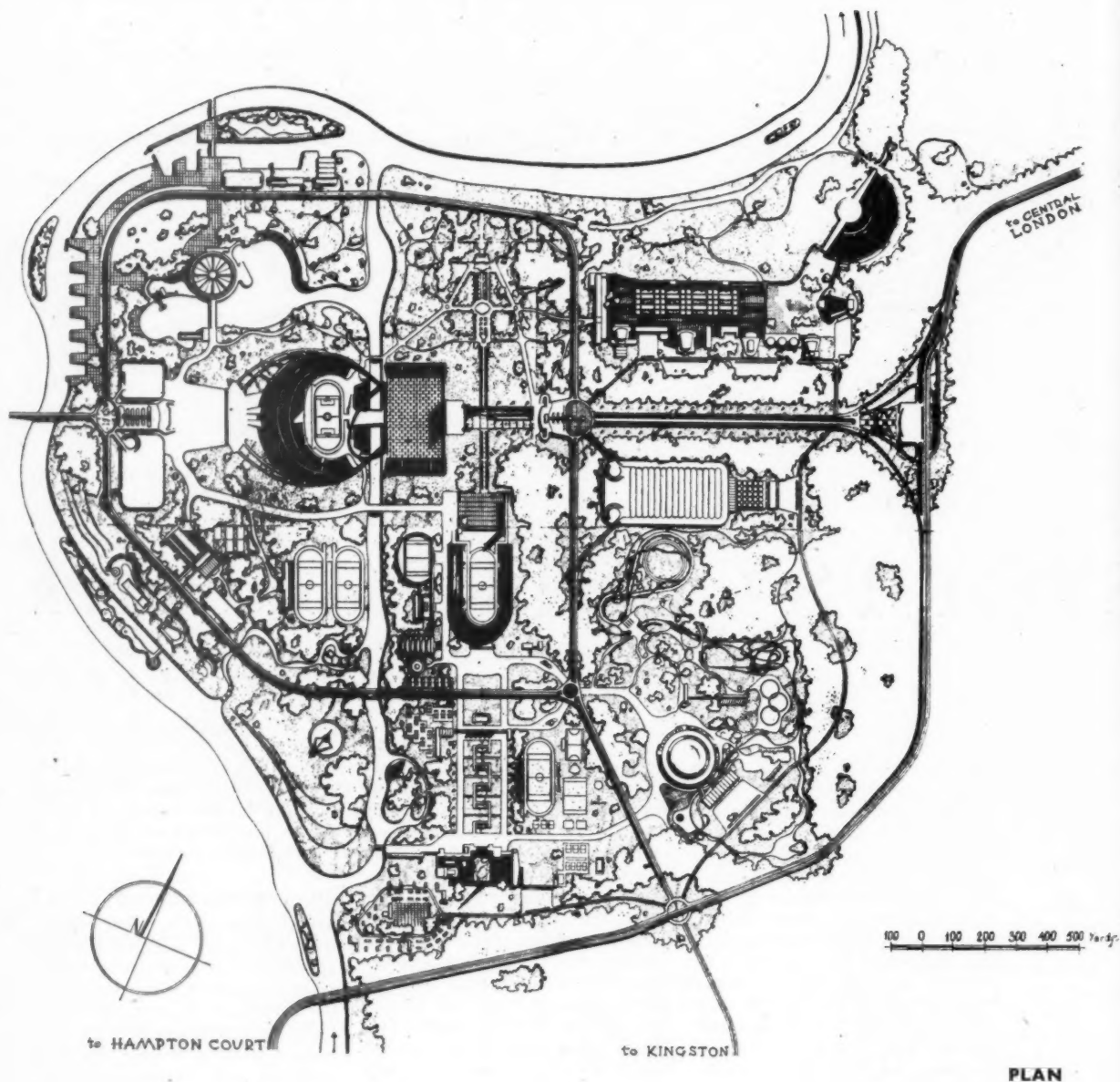
by the Thames and from the east by the Richmond Escarpment with its famous view over the river, is flat, almost undeveloped and at a reasonable distance from Central London. Ham House, with its adjoining park and tree-lined avenue, is preserved and incorporated into the design. According to the Greater London Plan this area is located between two express arterial roads (No. 1 and No. 10) and the outer "D" Ring; a parkway should connect these two express arterial roads, thus providing good communications both with London and the rest of the country. The project

aims at a large informal landscape design. The area has been divided into three main centres: a sports centre, a cultural centre, and an entertainment centre.

SPORTS CENTRE.—The dominant feature of the whole scheme is the Olympic Stadium (capacity: 120,000 persons), which closes the main compositional axis formed by the forum, to be used for sports festivals and pageantry and the monumental avenue, lined with sculpture and terminating at the main station, located in the centre of the site. On the ground level of this station are the entrances to the Underground; above are the bus station and helicopter airport. The secondary axis is formed by Ham House and the existing tree-lined avenue, closed by the smaller Stadium (capacity: 40,000 persons). The area towards the south is occupied by a Training Centre with a hotel, Olympic Village and training grounds. In the area south and south-east of the main stadium are located: a covered swimming pool, two football training fields, a rugby pitch, a boxing ring, several open and covered tennis courts. The river banks are re-designed for various water sports; the north and north-west bank comprises numerous landing stages for boats and yachts, the south bank is reserved for beaches with open swimming pools. An



SITE PLAN



PLAN

ice rink, dance hall and cafés are placed by the artificial lake.

CULTURAL CENTRE.—Placed in the quiet northern part of the site, the cultural centre is composed of an open air theatre, one main theatre and several concert halls and cinemas. This centre is conceived as a rather formal paved area, facing the river.

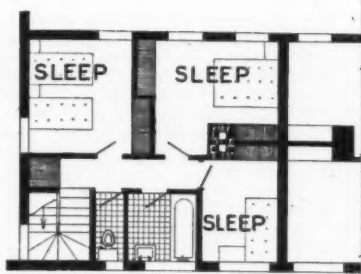
ENTERTAINMENT CENTRE.—The noisy Entertainment Centre, including a fun fair and a circus arena, is situated on the south-east side, behind the main car park and its service station.

COMMUNICATIONS.—A very complicated problem of communications is dealt with by all four means of transport: railway, road, water and air. A decentralisation of congestion points is aimed at, by the provision of six combined, Underground and Bus Stations, giving direct access to the various centres. The whole area is served by an underground railway loop and an overhead road loop, leaving the ground level free for uninterrupted pedestrian traffic. The road loop, dividing the whole area into the three main centres, is connected by means of two two-level junctions with the parkway along

the Richmond Escarpment. The problem of parking is dealt with by several three-level car parks, serving the appropriate centres, with a total capacity of 25,000 cars. A helicopter airport is situated on the top of the central station.

The proposed Centre is intended to satisfy the needs of Londoners the whole year round. The peak capacity is estimated at 250,000 persons. A sports centre on this scale would be similar to such famous centres as Moscow's Park of Culture and Health and New York's Long Island Park.

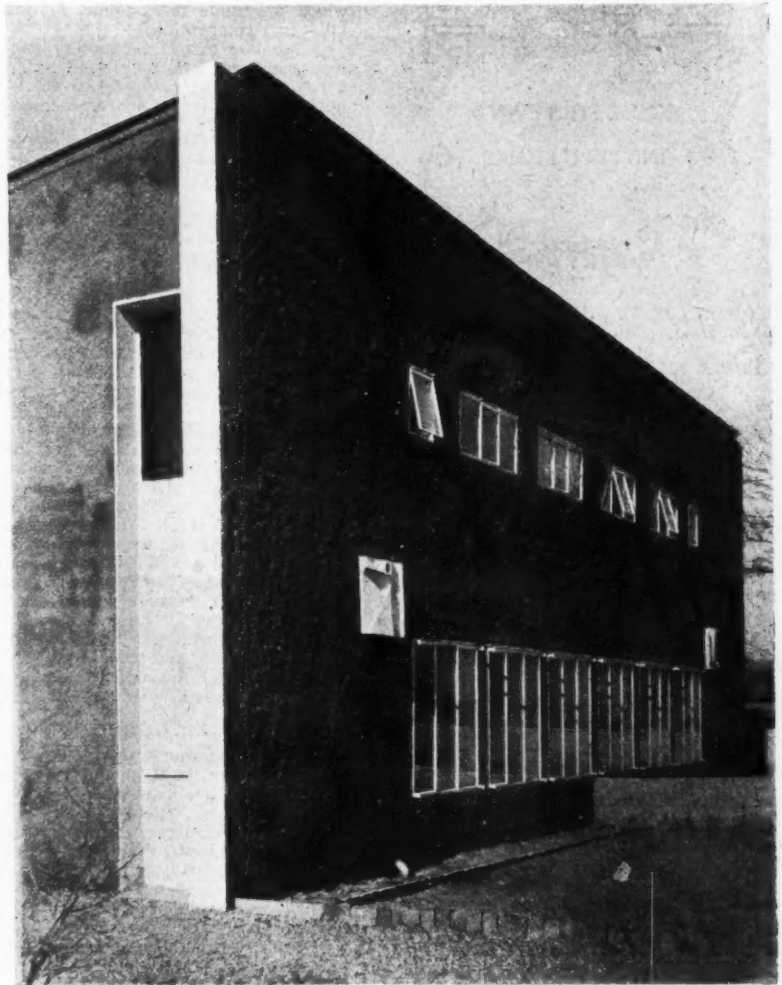
SPORTS CENTRE FOR LONDON



FIRST FLOOR PLAN



GROUND FLOOR PLAN
(Scale: $\frac{1}{8}$ " = 1'0")



From the east, showing the two sculptured plaques in pale blue concrete by Nelson Paine.

HOUSES AT SUTTON, CO. DUBLIN

DESIGNED BY
NOEL MOFFETT

Below, from the west.



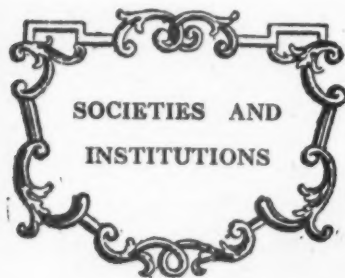
GENERAL.—The houses were built for a local factory-owner as living quarters for his managerial staff. The attempt has been made to provide a spacious house at a minimum cost.

CONSTRUCTION.—External and party walls are of solid concrete-block work, except the north wall, which was built as an 11-in. cavity wall. The central living-room fireplace and chimney-stack are of local limestone rubble masonry.

ELEVATIONAL TREATMENT.—External walls are plastered in different coloured roughcast finishes; sunless north wall—bright terracotta; south wall—pale turquoise; side walls—dark grey.

INTERNAL FINISHES.—Internal wall surfaces are plastered, except for the exposed rubble chimney stack, which is pointed in terracotta cement. Floors: living room, dark red asphalt; hall and cooking space, grey tiles; bedrooms, timber.

COST.—Built last year, the cost of each house was £1,250, including site development.



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.

IWA

Inland Waterways

Extracts from the MEMORANDUM OF THE INLAND WATERWAYS ASSOCIATION (11, Gower Street, W.C.1), presented to the Minister of Transport on the history, condition and functions of the inland waterways, together with recommendations for their revitalization.

INTRODUCTION

The Inland Waterways Association was formed for the purpose of advocating the increased use and development of the inland waterway system of this country. It differs from other canal organizations in that it is in no sense a trade body, but exists to promote the public and national interest in a context where that interest has long been the last to be considered. While commercial water-borne carriage is undoubtedly the primary function of our waterways, we wish to emphasize that there are other important secondary functions which should not be overlooked.

Ever since the advent of railways, our waterways have been the "Cinderella" of inland transport services, and the extent of public ignorance and misconception concerning not only the potentialities but the very existence of inland water communications is astonishing. The commonest of these misconceptions is that water transport has been made virtually obsolete by rail and road developments and that on this account it is destined soon to disappear. For example, our organization was recently described in the popular Press as "romantic" for advocating an "archaic" form of transport. That neither of these adjectives is applicable we trust this memorandum will make clear.

THE CASE FOR WATERWAYS

The statement that inland water transport is uneconomic is founded upon misleading figures and an unjust comparison. Railways have often quoted specially reduced rates

which are quite uneconomic, in order to kill canal competition.

At the close of the last century, comparative costs were estimated as:—Rail 1.31d. per ton per mile; canal 0.37d. per ton per mile, allowing for 4 per cent. interest on capital in each case. While costs have increased in both cases since that time, no major material development has taken place such as would substantially affect the costs ratio.

There can be no doubt that for heavy freight, waterways are the most economical means of transport for the following reasons:—

(a) It requires less horse-power to move one ton by water than by rail or road. It has, in fact, been estimated that, under average conditions in each case, a single horse which can move 2 tons on level road can move 10 tons by rail or 80 tons by water.

(b) Both capital and maintenance costs of a waterway are on an average 50 per cent. lower than rail, and maintenance cost lower than road. There is no "wear and tear" of the actual track on a waterway, while the loading on bridges remains constant irrespective of the weight of traffic. Maintenance is confined to locks and bridges, dredging, water supply, and the maintenance of banks against erosion and leakage.

(c) Lower capital and maintenance costs of vehicles used, i.e., boats and barges as compared with locomotives and rolling stock or with heavy road vehicles.

HISTORICAL BACKGROUND

Why then has our waterway system not developed, why is it not put to greater use, and why have many waterways become derelict?

While inland transport by river navigation dates from mediaeval times, the era of still water canals virtually began with the opening of the Bridgewater Canal in 1761 and reached its zenith of prosperity in 1838. By this time, the country was covered with a network of waterways, but the Liverpool & Manchester Railway had been opened in 1830, while the next decade was a great period of railway construction and saw bitter competition develop between canal and railway proprietors. According to the economic canons of the time, this competition benefited the community by lowering the cost of transport, for there can be little doubt that in many cases the Canal Companies had exploited the monopoly they had hitherto held. But the ultimate disastrous consequences of this ruthless era of competition far outweighed any immediate advantage.

The waterway system had developed from a large number of isolated, independent and comparatively small-scale projects designed to serve purely local needs and of a gauge suited to the particular craft already in use on local rivers. Consequently, not only was through working hampered by a complexity of toll payments to different proprietors, but it was often physically impossible for craft of useful burden.

To a great extent, the railway proprietors benefited by the example of their predecessors and avoided these mistakes. With the exception of the Great Western, a uniform gauge was adopted, while through working was further assisted by the establishment of the Railway Clearing House. Faced with this threat, many canal concerns voluntarily sold out to the railways, often forcing the hands of the railway promoters by putting forward rival schemes. Others were purchased by railways after they had been driven to bankruptcy by rail competition. In such ruinous competition, the rail was in a far stronger position than the canal.

The majority of canal concerns, unlike the railways, were not at that time carriers, but merely collected tolls for the use of

the waterway by many small traders. It was therefore difficult for them to co-ordinate in order to meet the threat. By such means, in three years alone, 1845 to 1847, over 900 miles of inland waterway came under the control of the railways, and with this transference there vanished any hope of large-scale development and unification of the waterway communications of this country.

It is not necessary to read the evidence accumulated by the Parliamentary Committees of 1872 and 1882 and the Royal Commission of 1906 to discover the effect of railway control on our waterways. The present state of railway controlled waterways tells its own story. With certain notable exceptions the condition of many independent canals is little better than that of the railway-owned waterways. In order to economize, maintenance staff was reduced to a minimum, and works and equipment allowed to become obsolete. Owing to inadequate maintenance, working difficulties deterred traffic, and a vicious circle was thus created.

It is safe to say that at least 75 per cent. of inland waterway mileage is suffering acutely from lack of dredging. The increased use of motor craft instead of horse-drawn increases the need for dredging owing to bank erosion caused by propeller wash, whereas less dredging has been done in recent years. An inadequately dredged waterway decreases both the speed of craft and the tonnage carried, while it increases the fuel consumption and wear on boat bottoms and chimes. Thus this defect substantially increases the cost of water carriage.

SECONDARY FUNCTIONS

Unlike our railway system, our inland waterways, part artificial "cut" and part navigable river, are of their nature inextricably associated with the natural structure and ecology of the country. The canal or river is thus not merely a commercial highway, it is also at once a landscape amenity, the habitat of fish and other wild life, and an important agent of water supply, conservation and drainage. Even where a particular waterway is considered to be of little potential value for commercial traffic, these other considerations must be carefully weighed before abandonment is sanctioned.

The canal with its summit reservoirs and feeders, constitutes an elaborate system of water conservation, supply and drainage in areas prone to suffer from the effects of droughts or floods. To maintain and improve the canal is to make a contribution to the solution of the water problem of the country, to abandon the canal is to aggravate that problem. Where a waterway is maintained mainly for this reason (and in most cases the reason is very strong), then it should also be maintained in navigable condition and not merely as a non-navigable feeder or drain. The additional maintenance cost would be small, while the passage of craft actually assists in keeping a clear channel. There is scarcely a waterway in the country which is not capable of carrying usefully a certain volume of commercial traffic, while even if this traffic was insufficient to offset the cost of maintenance we are convinced that this deficit would be more than offset by receipts from pleasure traffic, especially in view of the "holidays with pay" scheme.

The conditions of modern life, overcrowding on road and rail and at pleasure resorts, and the consequent desire for quiet holidays, has created an enormous potential demand for inland cruising facilities which cannot at present be satisfied except on the Norfolk Broads and, to a more limited extent, on our larger rivers, Severn, Thames and Trent.

The extraordinary development of pleasure boating on the Norfolk Broads during the last twenty years is proof of the demand that exists and can be reached by efficient management. There is no reason why a

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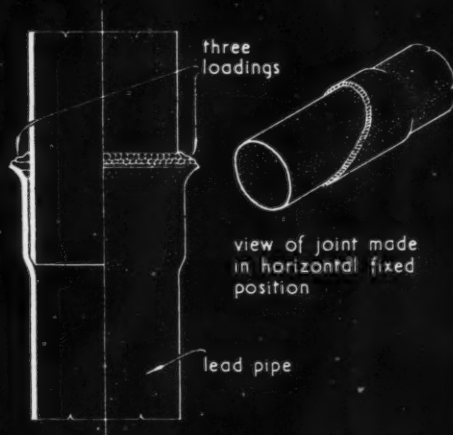
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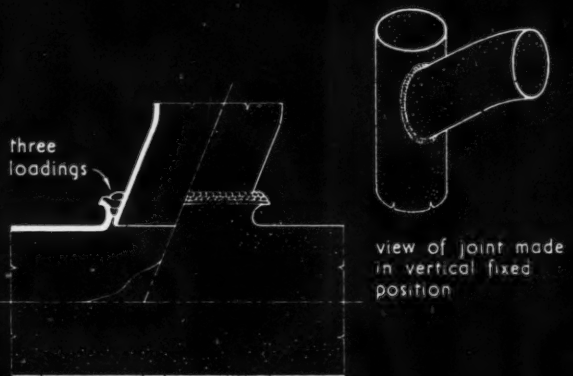
WATER SUPPLY AND SANITATION | DETAILS | LEAD

33.C6

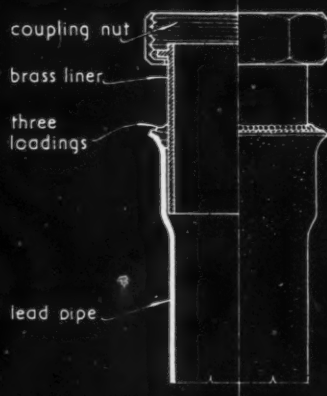
The Architects' Journal Library of Information Sheets 133. Editor: Cotterell Butler, A.R.I.B.A.



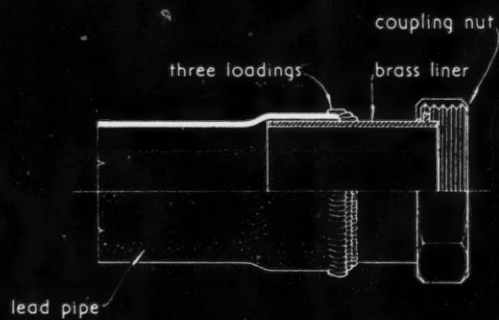
RUNNING JOINT. (made in vertical position)



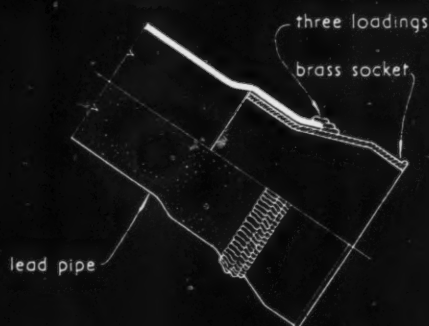
BRANCH JOINT. (made in horizontal position)



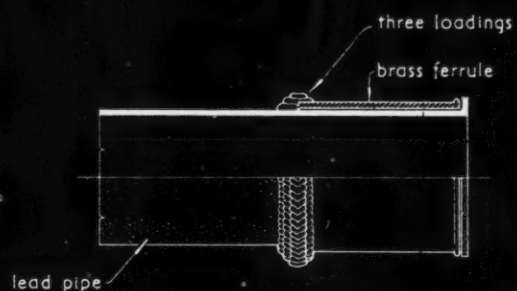
JOINT TO BRASS LINER: VERTICAL POSITION.



JOINT TO BRASS LINER: HORIZONTAL POSITION.



JOINT TO BRASS SOCKET.



JOINT TO BRASS FERRULE.

LEADBURNED JOINTS FOR LEAD SOIL AND WASTE PIPES: CHARACTERISTICS.
Compiled from information supplied by The Lead Industries Development Council.

33.C6 LEADBURNED JOINTS FOR LEAD SOIL AND WASTE PIPES: CHARACTERISTICS

This Sheet summarises typical forms and acceptable characteristics of leadburned joints for soil, waste and vent piping. The characteristics of wiped soldered and soldered spigot joints for lead service and distribution piping and the characteristics of wiped soldered joints for soil, waste and vent piping are summarised on Sheets 33.C4 and 33.C5 respectively.

Leadburning Generally

The process of leadburning is a welding technique used for jointing lead, or lead to other metals. A small, clean, welding flame is used to melt lead together with lead or to bond it with a tinned surface on another metal (with pipework usually brass). Extra lead (which is applied in separate loadings) may be added to strengthen the joint.

The equipment most widely used is oxy-acetylene, but others such as oxy-coalgas and oxy-hydrogen are equally suitable.

The temperature of the leadburning flame is much higher than the melting point of lead, but the actual amount of heat applied is not great and the process is such as to keep this localized. Only small amounts of lead are melted at one time by a regular and quick progressive action. This action gives a characteristic regular pattern to the leadburned seam.

Running Joint

The lead to lead running joint is most easily made in the vertical position, but the skilled operative can also make it in a horizontal position. Three loadings of lead are applied, two of which may be visible on the finished joint, but this depends upon the way the operative finishes his work. Where a running joint must be made in a horizontal position extra lead is loaded only on to the upper part of the joint, the lower part being made by burning lead from the socket. The finished seam shows only one band.

Branch Joint

When made in a horizontal position three loadings are applied, of which two may be visible on the finished joint. When made in a fixed vertical position the burned seam will show a single band and variation in the pattern, which will be bolder on the upper part. With lead to lead joints it is important to note that the wall of the entering pipe is not cut into by the leadburning flame.

Joint to Brass Liner

Three loadings are applied whether the joint is made in the vertical or horizontal position. In the first case two bands may be seen in the finished joint and

in the second case three. The area where the burn is made to the brass liner is tinned. In making these and the following two joints the pipe is rotated on the bench.

Joint to Brass Socket

Three loadings are applied which may show three bands on the finished joint. Here also the brass is tinned where the burn is made.

Joint to Brass Ferrule

Three loadings are applied which may produce four bands on the finished joint. The pipe is shown passing through the ferrule, but alternatively the pipe mouth may be opened for part of the ferrule to enter. The former method is generally preferable and should in any case be used for laboratory plumbing to maintain continuity of the lead.

Applications

The leadburned joint may be used as an alternative to the wiped soldered joint for all jointing of soil, waste and vent piping.

It is not normally accepted for jointing water supply and distribution piping.

This type of joint shows considerable economy over the wiped soldered joint in the use of solder.

Building work generally: Leadburning for building work is used both for shop-prepared and *in situ* work, but may be said to be used to best advantage for shop-prepared work where the more straightforward applications of the process can be arranged and the plant more easily handled.

Laboratory plumbing: For this and similar plumbing work where acid effluents are carried, the leadburned joint should always be used as the all-lead job has the greater resistance to corrosion.

Further Information

The Lead Industries Development Council maintains a Technical Information Bureau which is available to answer questions and advise on technical problems dealing with this subject generally.

Compiled from information supplied by:

The Lead Industries Development Council.

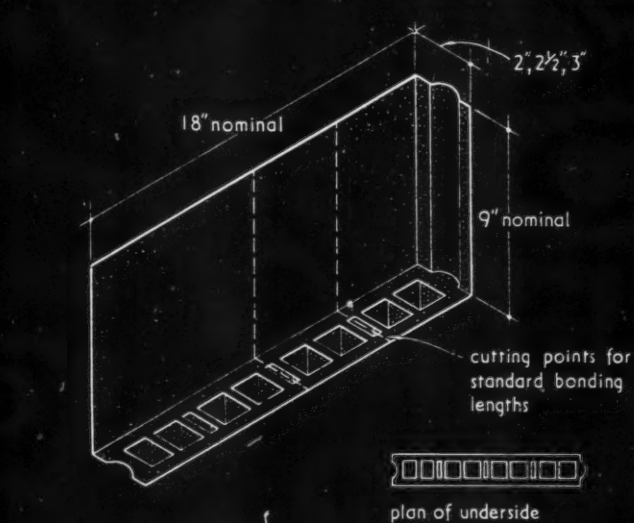
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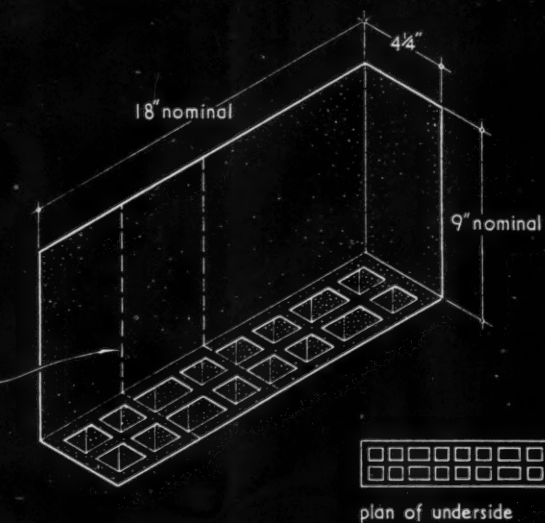
BUILDING BLOCKS | LIGHTWEIGHT MATERIALS | GENERAL DATA**14.L10**

14.L10

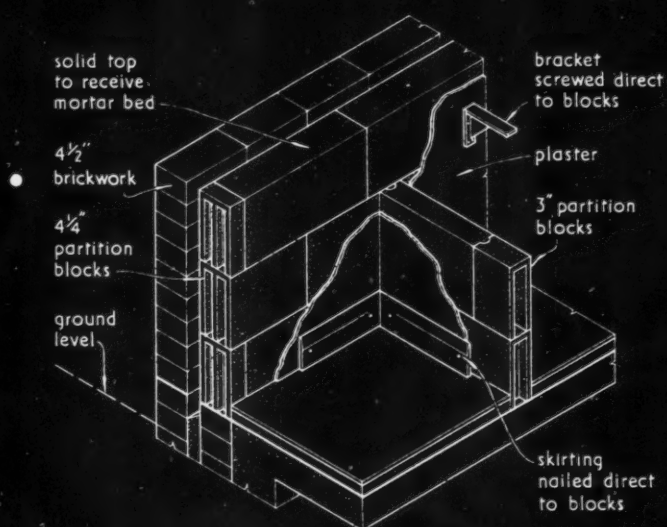
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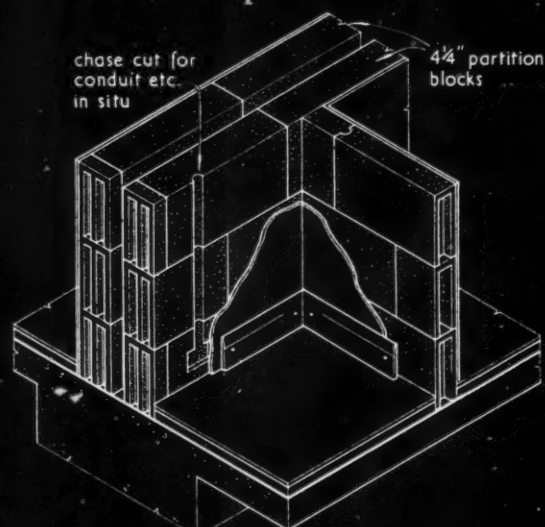
STANDARD 2", 2½" AND 3" BLOCKS.



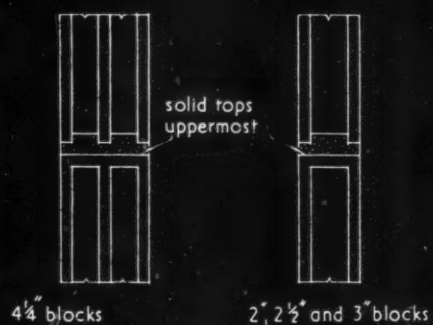
STANDARD 4¼" BLOCK.



TYPICAL EXTERNAL CAVITY WALL.



TYPICAL INTERNAL PARTY WALL.



SECTIONS SHOWING METHOD OF LAYING

thickness of blocks	2"	2½"	3"	4¼"	party wall. 2 skins of 4¼" blocks	external wall. brick outer skin, 4¼" block inner skin
total thickness plastered both sides	2¼"	2¾"	3¼"	4½"		
loadbearing capacity ^o	1.6 tons	3.13 tons	4.75 tons	10 tons	10 tons	10 tons
sound reduction [*]	40 db.	41 db.	41 db.	43 db.	65 db.	—
U value	0.435	0.42	0.395	0.37	0.12	0.195

TABLE OF CHARACTERISTICS

^o factor of safety 4
^{*} calculated on ½" plaster both sides

BROAD-ACHESON VIBRATED CELLULAR LOADBEARING CLINKER PARTITION BLOCKS

Manufacturer: Broad and Co Ltd

14. L10 · BROAD-ACHESON · VIBRATED CELLULAR LOADBEARING CLINKER PARTITION BLOCKS

This Sheet describes a type of vibrated cellular clinker partition block. Although cellular, the block has a closed top to take the mortar bed, thereby economising in mortar when it is laid. Pipes and electric conduits can easily be chased-in in any direction and skirting, etc., nailed or screwed direct to the blocks; the recommended length for screws is that which will enable the screw to pass through the outer wall, bridge the cavity and engage in the opposite wall of the block.

Material

Aggregate: Well-burnt furnace clinker to B.S. 1165 : 1947 Class C.

Composition by volume: 1 part Ferrocete to 7 parts aggregate.

Characteristics

Sizes: $17\frac{1}{8}$ in. by $8\frac{1}{8}$ in. by 2 in., $2\frac{1}{2}$ in., 3 in. and $4\frac{1}{4}$ in. thick.

Weight per yard super: 2 in.—104 lb.: $2\frac{1}{2}$ in.—112 lb.: 3 in.—120 lb.: $4\frac{1}{4}$ in.—184 lb.

Shrinkage: Complies with B.S. 728 : 1944 requirement of 0.08 per cent.

Compressive strength: Average 600 lb./sq. in. or $9\frac{1}{2}$ tons total load to crush one 2 in. block, $11\frac{1}{2}$ tons to crush one $2\frac{1}{2}$ in. block, 14 tons to crush one 3 in. block and $20\frac{1}{2}$ tons to crush one $4\frac{1}{4}$ in. block. Side thrust resistance and load bearing properties are comparable to brickwork.

Thermal Insulation

"U" value: 2 in.—0.435, $2\frac{1}{2}$ in.—0.42, 3 in.—0.395, $4\frac{1}{4}$ in.—0.37.

Sound Insulation

Sound reduction figures for a range of partition walls are shown on the face of this Sheet.

Laying

Ease and speed of laying is increased because of the uniformity of shape and size, the lightness and the readiness with which a block can be cut into suitable bonding lengths.

Plastering

Owing to the regularity of surface, rendering can be dispensed with and only a minimum thickness of finishing float is required. Adhesion to the face of the block is sound. A typical suitable plaster is Sirapite.

Applications

The $4\frac{1}{4}$ -in. blocks may be used as the inner skin of an external cavity wall when tied by a suitable arrangement of wall ties. Party cavity walls composed of two thicknesses of $4\frac{1}{4}$ -in. blocks may be constructed in a similar manner.

All sizes of blocks are suitable for both loadbearing and non-loadbearing internal partitions.

Size of Non-Loadbearing Partitions

The following formula for determining the maximum size of partitions is based upon bye-law 53 of the London Building Act and applies to non-loadbearing partitions with adequate lateral support.

$3H + L$ should not exceed $200 \times T$; where H = height in ft., L = length in ft., T = thickness in ft.

Compiled from information supplied by:

Broad & Co., Ltd.

Address: 4, South Wharf, Paddington, W.2.
Telephone: Paddington 9091 (15 lines).

similar development should not take place in all parts of the country, with immense gain to the nation's health and happiness, and a huge alleviation of all kinds of holiday congestion; and it is precisely those waterways which because they pass through predominantly rural areas, are unlikely to carry a heavy commercial traffic, that would prove of the greatest value in meeting this growing demand. Many of these waterways are not only of the greatest scenic beauty, but the quality of their engineering alone would justify their preservation as historical monuments quite apart from their practical value. They are also admirably placed in relation to areas of dense population.

RECOMMENDATIONS

In view of the present shortage of coal which is likely to continue for some time to come, and in view also of the congestion which is already occurring on the rail and will certainly occur on the road, we are strongly of the opinion that far greater use could and should be made of our inland waterway system for the carriage of heavy goods, for attracting overseas tourist traffic, and for providing recreational amenities for those with "holidays with pay." We consider that a given sum of capital to be expended by the State upon the improvement of transport would at the present moment and in the future yield a much larger economic return if expended upon the waterways system than if expended upon roads or railways. In fact the expenditure required completely to restore that part of the inland waterway system which has fortunately survived, would be much lower than is generally supposed; and would yield a quite incommensurately large return if the waterways were then administered by a National Transport Commission upon a sound economic basis, for then the low real costs of canal transport would, for the first time, emerge.

Before any abandonments of waterways are sanctioned, and before any large scale projects for waterway reconstruction are formulated, we recommend that a careful detailed survey and report should be made upon the inland waterway resources of this country.

We recommend that a systematic policy of dredging is carried out on all our water routes. We submit that on the majority of our waterways dredging equipment is either inadequate or obsolete or both. We submit that modern dredging equipment could be further developed to reduce the capital cost of this work. Meanwhile we recommend the following steps to minimize the necessity for dredging in the future:—

1. The reinforcement of banks by piling or other means, or
2. The planting of the Common Rush on the margins of waterways of shelving section;
3. Close study of the behaviour of different hull forms in channels of differing depth and cross-section in order that the optimum hull and channel form may be determined for future application.

Where water supplies are inadequate we recommend the cleaning and/or enlargement of reservoirs, the prevention of waste by adequate puddling and lock maintenance, and the increased provision of side-ponds at locks.

Where the actual or potential traffic of a waterway justifies enlargement we recommend reducing the number of locks and increasing the depth.

In some cases the substitution of lifts for locks may be found practicable, though the capital cost is much higher. In the improvement of river navigations we recommend the application of the movable weir or barrage as used with success on the Continent. This not only improves the available draught in dry seasons, but considerably reduces the risk of flooding with consequent damage and delay to traffic.

We recommend the improvement and

enlargement of wharves and basins, including the provision of improved handling plant.

We recommend that the consignment of long distance through traffic by inland waterway should be facilitated by the substitution of a national scale of tolls in place of the present system, and by the elimination of redundant gauging points. We believe that water transport can best be handled by independent carriers operating under licence like road carriers, and we believe that freight rates and operating conditions should be so determined as to allow the small carrier a fair livelihood. We recommend that boatmen employed by carriers should be paid an adequate regular weekly minimum wage with the addition of a Tonnage Bonus.

We recommend that the supply of timber and other materials to boatbuilders should be facilitated; that they should be encouraged to expand their yards and to restart apprenticeship schemes.

We recommend the introduction and vigorous publicization of a national scale of tolls comparable to that enforced upon the Railway Companies and administered, if necessary, through a Canal Clearing House.

The attention of all Departments and organizations concerned to promote foreign tourist traffic and bring in foreign currency is called both to the attractive possibilities of organized canal cruising over the more picturesque waterways ("See Britain by Canal") and to the inducement offered to many foreign canoeists and boatmen of a well-maintained and readily accessible system of rivers and canals. Many Continental countries, and notably France, derive a large income from these sources. There should be an Inland Waterways Cruising Bureau with headquarters in the centre of London and branches elsewhere, to give information and all possible help to native and visiting tourists, and to promote the consideration of the waterways as a national asset in this sense.

On every waterway domestic and industrial pollution should be much more rigorously controlled. Industrial plants discharging effluent into any inland waterway should be required to install the necessary purification plant to render such effluent harmless. At the present time many of our waterways are polluted to such an extent that no aquatic life of any kind can survive in them.

We recommend that all waterway towing paths, whether or not they are still used for the purpose of navigation, should become public rights of way for pedestrian use, and that where such towing paths have been enclosed, rights of way should be restored. These towing paths might well form a part of a National Footpath system, and would be of great value in keeping walkers off busy motor roads.

We recommend that the establishment of locked yacht basins on centrally situated sites in London and the provinces, provided with suitable amenities, should be seriously considered.

CONCLUSION

We are concerned primarily that a great economic and recreational heritage be no longer squandered and wasted as it has been for the last hundred years; but that under consolidated, disinterested, and sympathetic ownership, concerned with real, as against competitive, costs, and no less with real, as against distorted, human values, it be administered, restored, utilized, and extended on no scale less than national. Public indifference arising from ignorance, and extreme administrative conservatism plentifully mingled with self-interested hostility have resulted in the canal system being now much where it was in essentials a century ago. None the less it still survives to show its remarkable inherent value and attractiveness. The pleasure possibilities of our inland waterways have hardly

been developed at all and have usually been deliberately suppressed. There is a great opportunity before the Government completely to revolutionize and at surprisingly small expenditure the management of a national asset extending all over the land and capable of bettering the life of the people at many different points: a national asset which has been, to an extent hardly to be paralleled elsewhere, brought near to the point of destruction by public ignorance and inertia and the manipulations of hostile parties. Upon our inland waterways converge, as in few other places, the arguments of low cost and human amenity. No Government representing on a broad basis the people of England can possibly allow them to go to waste; can possibly do other than restore and free them; for an efficient system could, directly and indirectly, lower the real cost of almost every commodity and bring much happiness to that larger part than half of our population which lives near some section of it.

NFBTE

New Year Message

IN A NEW YEAR MESSAGE to the Presidents of his Regional Federations, the President of the National Federation of Building Trades Employers, Mr. F. M. Sleeman, gave a review of the builder's outlook for the New Year.

In his letter Mr. Sleeman wrote: I think I may say with sober confidence that things are looking more cheerful, subject always to the shadow which international affairs casts over all calculations. In the New Year materials should steadily become more plentiful. Labour is settling down after the unsettlement of the war period. The rhythm of production is rising, and the Government has at last, I hope, recognized that the building industry cannot be turned off and on like a tap. So, barring accidents, we should see no abrupt change in the general programme contemplated for 1949. Further, and perhaps even more important, we in the industry have a greater measure of freedom in managing our own affairs. The raising of the licensing limit from £10 to £100 for all work and from £100 to £1,000 for certain industrial work has helped; so has the scrapping of the WBA Priority Scheme. Today, therefore, we have greater scope for making our own arrangements, with a consequent saving of costs and a speeding up of the work. This, I feel, is an excellent tonic.

Incentives, too, are assisting, and the number of firms operating bonus-on-output schemes is steadily increasing. As soon as possible we shall be issuing a number of model schemes to help those builders who find it difficult to draw up schemes of their own, and before the end of next year we shall, with the operatives, be examining results in the light of our first two years' experience in the working of incentives in the building industry. The preparation of our evidence for the Working Party has for the last three months been engaging our very serious attention. Next month we shall be putting it before Sir Thomas Phillips and his colleagues. In a sense it is the report of the Working Party we had to set up ourselves to answer the other Working Party's very searching questions. It will, I think, be an impressive document. By its frankness it will show that the employing side of the building industry is alive alike to its responsibilities and to its opportunities, and will, I believe, go a long way towards stilling the criticism one sometimes hears of it. Personally, I am hopeful that out of the Working Party will come suggestions which will be of real value to the building industry.

INFORMATION CENTRE • INFORMATION SHEETS
 QUESTIONS AND ANSWERS • CURRENT TECHNIQUE
 THE INDUSTRY • PRICES • TECHNICAL ARTICLES

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.

INFORMATION CENTRE

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2.68 planning: general

PLANNING AND INSOLATION

Städtebau und Besonnung. (Town Planning and Insolation.) O. H. Strohmeier. (Bauen und Wohnen, Germany, Nos. 1, 2-3, 4, 1948, pp. 10-13, 56-58, 95-98.)

Series of three concise and informative articles discussing which orientation of streets and which street profiles as regards obstructions provide optimum insolation of dwellings. Investigations described are based on detailed research undertaken in connection with reconstruction plan for Hamburg, and use 20° angle of obstruction. Summary of conclusions. Diagrams. Text in German.

3.14 planning: regional and national

REGIONAL PLANNING, AUSTRALIA

Water Supply in the Agricultural Areas of Western Australia: A Study in the Technique of Regional Investigation. T. Langford-Smith. (Reprinted from "The Australian Geographer," Vol. 5, No. 6, December, 1947. Published 1948, pp. 115-156.)

Factual report on investigations carried out on behalf of Western Australian Government covering region of 64,000,000 acres. Object of study to implement water supply scheme intended to serve major part of Western Australia's agricultural areas. Description of survey techniques adopted for compilation of data on which to base final plan. Enquiry divided into three parts: (1) general study of physical, economic and social resources; (2) history of area development with special reference to

economic difficulties encountered in land settlement; (3) field investigations concerning amenities and social facilities in urban and rural areas. Survey maps, tabulated data, bibliographical references.

3.15 planning: regional and national

PLANNING, GERMANY

Bericht von Professor Walter Gropius für General Lucius D. Clay, den Militärgouverneur für Deutschland, US Zone. (Report by Prof. W. Gropius for General L. D. Clay, Military Governor of the US Zone, Germany.) W. Gropius. (Baurundschau, Germany, No. 9/10, 1948, pp. 74-80).

Very interesting statement on reconstruction problems in Germany following tour of inspection in 1947. Text in German.

The complete destruction of German towns requires extraordinary measures to reconstruct them from a sociological and building technological point of view. The population structure together with the means of production and transportation have undergone a fundamental change. As far as can be ascertained no attempt has been made, on the part of the Germans, to co-ordinate new planning measures except for an examination of legal questions closely connected with reconstruction proposals. Planning is being tackled locally only and under the direction of city planning commissions. The haphazard erection of emergency buildings in destroyed urban areas produces a considerable muddle. Owing to the complete lack of building regulations concerning reconstruction areas there is danger that such master plans as may be considered are incapable of implementation unless local projects are made to fit in with their long-term policy.

It is suggested that a central committee be established similar to the former US National Resources Planning Board. Such an "Institute for the Co-ordination of Planning and Building" should begin its work with a survey of the structure and tasks of the central European area. It should study distribution and changes of population, existing means of production, transport and distributive services, land uses, and the laws dealing with zonal sub-divisions and compulsory acquisition of land for communal purposes. The results of these investigations should be submitted to a "Ministry of Reconstruction" which would have to assume executive powers in order to co-ordinate Germany's planning and building programme. Under the supervision and with the assistance of the Military Governments the ministry of reconstruction should allocate building tasks within Germany according to needs and in relation to each other.

The most pressing need is for a law to come into force which would regulate the complicated problems of compulsory acquisition of land for communal purposes, an important aspect if the re-establishment of obsolete urban districts within destroyed areas is to be avoided. The new English planning law which resulted from similar considerations should prove of greatest value to the German legislators.

Another problem is the need for social rehabilitation by means of a new organic administrative structure. This should be based on the smallest self-contained planning unit as represented by a neighbourhood of from 5,000 to 8,000 persons in order to further community life in urban and rural areas.

Other points in this memorandum refer to the need for rationalized building methods to overcome the shortage of labour and materials. It is interesting to note that the complicated and inflexible dimensional standards as introduced under the Nazis are still in force and are even in some cases still further exceeded, thus blocking any attempt towards creative design and technological inventiveness. It is suggested that the German DIN standards be revised from a biological point of view so as to afford greater flexibility which is of importance in connection with rationalized building procedures.

Lastly the report considers prefabrication methods and the utilisation of debris.

5.27 planning: public utilities

TRAFFIC SURVEYS, USA

New York State's Answer to Urban Traffic Problems. C. H. Sells. (American City, USA, July, 1948, pp. 72-74.)

Informative article describing policy, programme and traffic survey technique adopted by Bureau of Arterial Road Planning under New York State Department of Public Works. Research and planning programme designed to improve economy and well-being of State's cities through construction of adequate systems of urban arterial roads in each. Preparation of surveys and master plans. Procedure regarding analysis of traffic density, flow and dispersal. Implementation of improvement proposals. Diagrams showing composite analysis of vehicle origin and destination data from eight New York State cities.

INFORMATION CENTRE INDEX, 1948

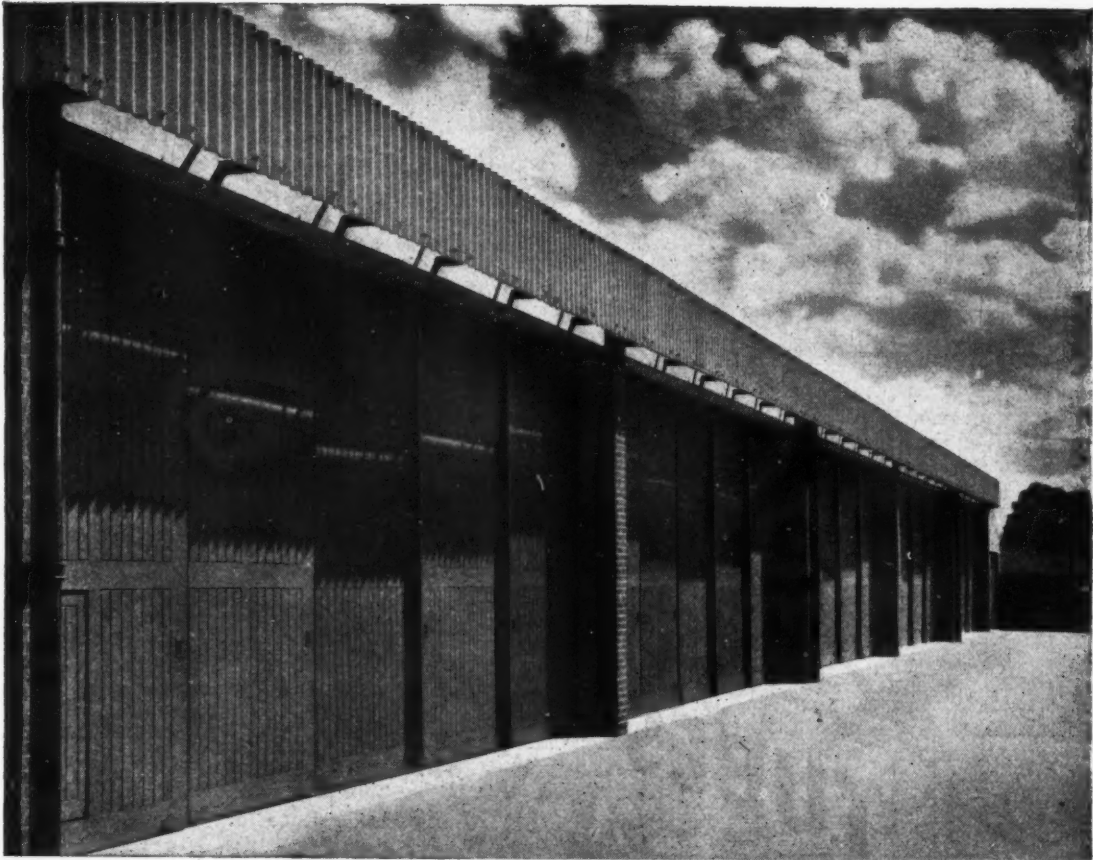
An alphabetical index covering items published during the twelve months ended December 31, 1948, is being prepared. Readers who wish to have a copy—it is free of charge—should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than February 21, 1949.

Please send me the Information Centre Index for 1948:—

Name

Address

..... A.J. 6.1.49



Straight-run Sliding Door Gear

Photographs of a recent job at Mulliners Motor Body Works, Birmingham. Architects: Henry Weedon & Partners. They show: ABOVE, exterior view which gives some idea of the size of the door; RIGHT, interior view which indicates length of the opening and the number of doors involved; BELOW, close-up showing the triple run of track.



This is a typical straight-run installation. Sometimes doors are required to slide round the corner or slide and fold. Every enquiry is carefully studied and our Drawing Office service and trained technical representatives are freely available to ensure that the most suitable gear is chosen at the planning stage. *Catalogue No. 48* contains diagrams, photographs and complete specification data.

Henderson

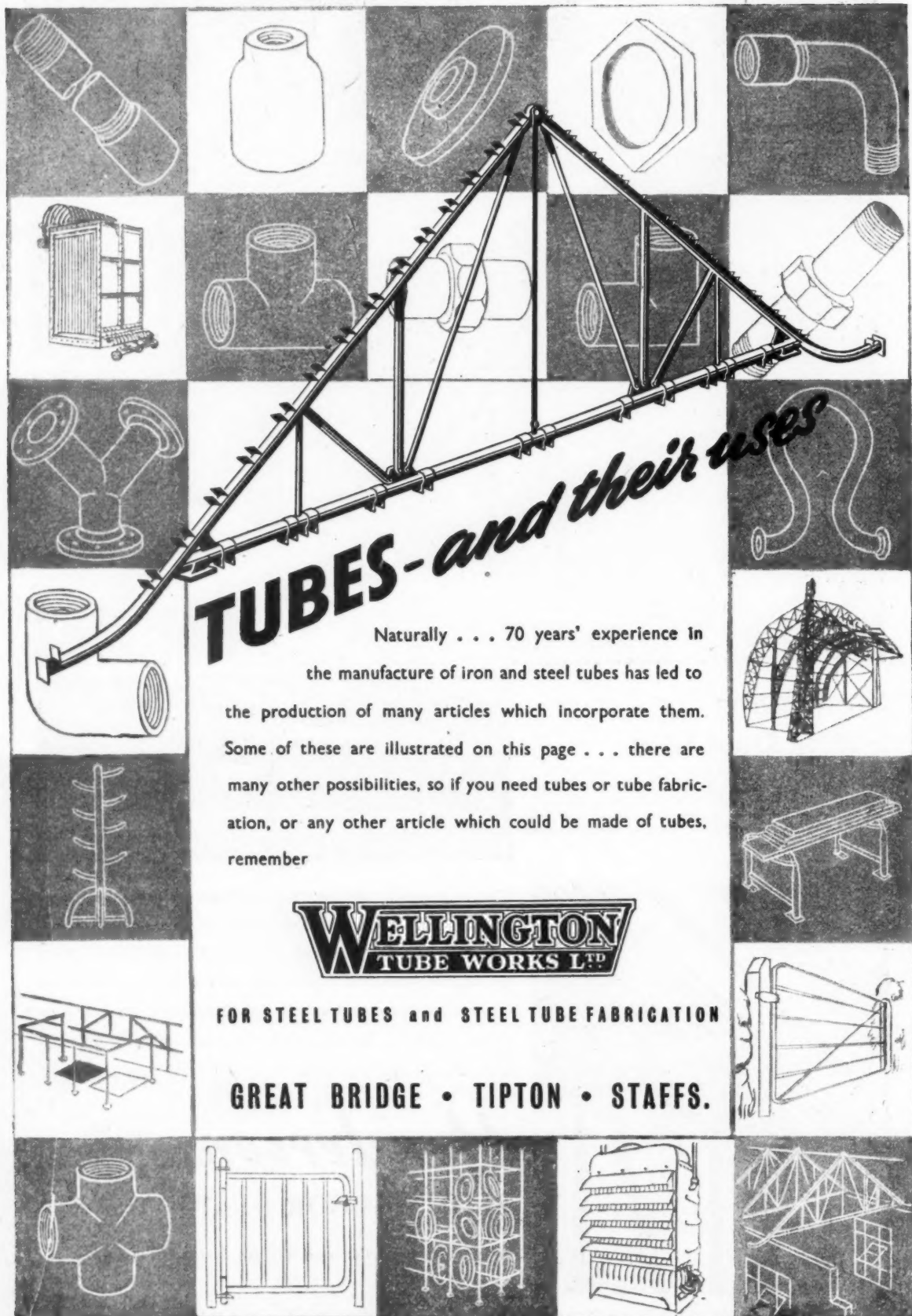
SLIDING DOOR GEAR



for any Door, Partition or Window that slides or folds


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H20



TUBES - and their uses

Naturally . . . 70 years' experience in the manufacture of iron and steel tubes has led to the production of many articles which incorporate them. Some of these are illustrated on this page . . . there are many other possibilities, so if you need tubes or tube fabrication, or any other article which could be made of tubes, remember



WELLINGTON
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FOR STEEL TUBES and STEEL TUBE FABRICATION

GREAT BRIDGE • TIPTON • STAFFS.

12.28 materials: metal
ZINC COATINGS

The Protective Value of Zinc Coatings on Steel in Sea Air & in Sea Water. Zinc Bulletin 5. (Zinc Development Association.)

Short descriptions of various methods of providing protective metal zinc coverings to ships' hulls and fittings.

Processes described are hot dip galvanizing, zinc spraying, zinc metal pigmented paints, and cementiferous paints. The particular advantages of each is mentioned.

Cementiferous paints are at present particularly useful, it is claimed, because they contain no organic vehicle and materials for the latter are in short supply.

22.27 sound insulation and acoustics
LARGE SOUND BOARD

Sound Board for Harringay Arena. (Metalurgia, Sept., 1948, p. 292.)

Aluminium and asbestos cement reflector, for concert music in an arena. Moderate interest, short, one photograph.

The article describes the construction of a sound-board nearly 100 ft. square to be suspended over the orchestra at the Harringay Arena, to improve acoustics for concert music. An aluminium frame is described which holds a corrugated asbestos under-face, to reflect sound outward and minimise the losses of energy upward into the large roof space.

23.87 heating and ventilation
ASBESTOS FLUE PIPES

Asbestos Cement Flue Pipes & Fittings, Heavy Quality. BS 835:1948; and *Asbestos Cement Flue Pipes & Fittings, Light Quality.* BS 567:1948. (Both from British Standards Institution, 3s. each.)

Revised editions covering size and quality. The light quality intended mainly for gas appliances. Heavy quality may be used, under some conditions, for slow-combustion solid fuel appliances.

24.98 lighting
COLOUR: OFFICES, FACTORIES

Colour and Lighting in Factories and Offices. (British Colour Council, 1948.)

Elementary principles, room aspect, colour preferences and psychological factors, colour classification. Notes on workshops, canteens, offices and ancillary rooms. Colour samples. Interesting, moderately useful. pp. 29.

This is one of a series of folders by the BCC. It argues the case for colour and better lighting in very general terms. There is a strong bias to a psychological approach, in terms of the emotional attributes of colours, with some reference to luminosity and safety in more objective terms. Emphasis is laid on the use of warm colours for north aspect and vice versa.

The actual references to machine colouring, where there are often real problems to solve, are disappointing and rather superficial. Experience shows that colours can distract if not properly related to the brightness and lighting of the work itself, but this is not mentioned except in a general way. Green of the correct hue is said to be the best colour for machinery, but this conflicts directly with experienced American views, and with some British experience. It is impossible to argue for one colour when the colour of the materials handled may be obvious and conflicting. The use of strong hues on things like window frames is

recommended, but again conflicts directly with BRS on sky glare.

Reference numbers for colours are in a system which does not seem to be explained and does not correspond with the BSS or the Munsell. It is a pity some conformity on this matter is not established here.

No mention is made of the types of paint needed to resist the soiling and other actions of oils and coolants, though this is a major factor in maintenance.

Some of the colour schemes, judged in the abstract, are pleasant; but the booklet does not read convincingly.

24.99 lighting
READING LAMPS

Electric Reading Lamps. BS 710:1948. (British Standards Institution. 2s.)

Table and floor standards, light distribution, rating and intensity; brightnesses on fitting.

This Standard covers table and standard lamps for general domestic use. It defines the requirements for brightnesses on the fitting, for the distribution of lights, and the intensities provided. It marks a useful step in the direction of rational fitting design.

24.100 lighting
SCHOOL LIGHTING

American Standard Practice for School Lighting. A Report prepared for the Illum. Eng. Society of America (Illum. Eng. [USA] Sept., 1948, p. 793).

Analysis of schoolwork, quality and quantity of light, treatment of environment. 33 illustrations. Important material.

The lighting of schools is controversial, and it is valuable to have this review. In detail it is behind the best American research, but presumably it is better than average practice.

The analysis of school work is not penetrating or convincing. It refers to visibility, size, contrast, time and brightness, which are familiar items, not now in the forefront of modern thought. The discussion of quality—e.g., brightness ratios—also offers nothing new.

The section on quantity, on the other hand, is surprising for its high values, 30 foot candles for teaching rooms generally, and also 50 foot candles for special rooms (sewing, art) and for partially sighted children. Gyms only have 20 foot candles, and auditoria 10.

Recommendations for decorations are explicit. The ceiling should have a reflection factor of 80-85 per cent., the walls 50 to 60, or up to 70 in certain cases, and the floor 15-30 per cent. Desks should have a matt finish, with a reflection factor of 35-50 per cent. It is recommended that chalk boards be covered with light material when not in use (this seems to be establishing itself in the USA).

The natural lighting section is weak by British standards. It is controlled by having the lintel height equal to half the room depth, and the glass area 16-18 per cent. of the floor area (depending on whether sills are 3 ft. high or 4 ft.). There is some reference to proper window bar shapes; baffles, louvres and outriggers are frequently mentioned.

Artificial lighting is naturally a stronger section, but is somewhat uncritical in the review of different systems (e.g., direct and indirect). A cautious word of favour is given to lighting with about equal light up and down, and not much sideways.

Lighting and colouring of chalk boards received some attention, and there is a weak section on economics. A good appendix on general ideas of vision and its relation to lighting concludes the report.

The photographs are informative and extremely interesting.

25.64 water supply and sanitation
ASBESTOS CEMENT PIPES

Asbestos Cement Soil, Waste & Ventilating Pipes & Fittings. BS 582:1948. (British Standards Institution, 4s.)

Revision of 1945 edition includes alterations. Pipes to old BS may have to be supplied for some time owing to difficulty in manufacturers changing moulds. Cover dimensions, quality and methods of test.

26.45 services and equipment
LIFTS

Electric Lifts. R. S. Phillips. (Pitman. 2nd Ed., 1948. 35s.) 329 pp.

Illustrated. Intended more for engineer than architect.

This second edition of a book first published in 1938 takes account of new and revised BS and of the latest Code of Practice. It is intended primarily for engineers, but contains information very useful to architects who have to deal with lift installations and in particular the earlier chapters giving general data on sizes, types, etc., form a useful background to design requirements.

28.9 miscellaneous
CORRESPONDENCE FILES

Folders and Files. BS 1467:1948. (British Standards Institution. 2s.)

Standard giving definition and sizes of folders and files for correspondence filing including transfer storage cases. Maximum external file dimensions useful in connection with design of office or similar shelving. Illustrations of folders.

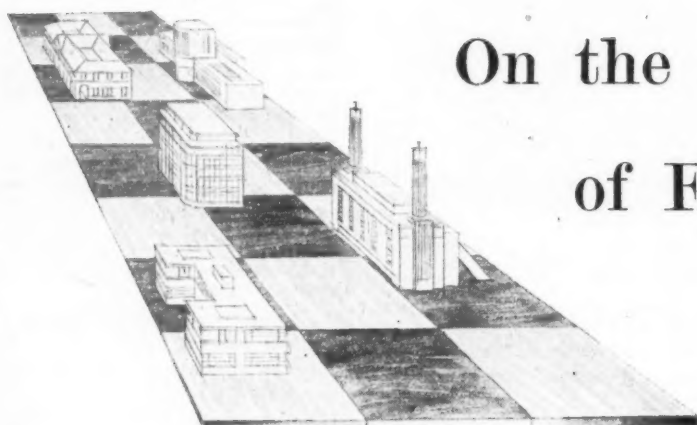
This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS**2970 COEFFICIENTS OF REFLECTION**

Q I am preparing a lighting scheme for a factory including the offices, canteen and kitchens and would like to know the coefficient of reflection of the following materials and colours—concrete unpainted, plaster, tiles (white glossy), aluminium paint, buff paint (mat), cream paint (matt), French grey paint (matt), ivory paint (matt), ivory paint (glossy) and green-light paint (matt).

A The coefficients of reflection of the materials listed are as follows:—

	Coefficient of reflection (per cent)
Concrete unpainted ...	45
Plaster (Keene's cement finish) ...	75
Tiles (white glossy) ...	80
Aluminium paint ...	72
Buff paint (matt) ...	36
Cream paint (matt) ...	62
French grey paint (matt) ...	28
Ivory paint (matt) ...	64
Ivory paint (glossy) ...	69
Light green paint (matt) ...	41



On the question of Floor Surfaces

DURING THE WAR years, Semtex Limited developed a highly successful non-slip fleximer decking. This decking, based on a rubber latex/cement binder, possessed unusual properties. Not only did it bond successfully directly to steel plating, but it possessed a high degree of flexibility and endurance under the rigorous conditions imposed by warfare at sea. This wartime experience opened up possibilities for developing domestic and industrial floor surfaces based on rubber latex or synthetic resin emulsions.

ACCORDINGLY, WHEN THE war ended, Semtex Limited whilst expanding and improving the range and quality of its work in the marine field, turned its attention to the manufacture and installation of architectural floors. Research at the Company's laboratories made it possible to offer a range of flooring materials designed to meet a diversity of architectural requirements. These new floor surfacing materials have been installed with considerable success in business premises, factories, offices, hospitals, schools, housing schemes and building projects generally throughout the country. To-day production has reached a level at which Semtex Limited is fully able to meet all demands.

The two main types of flooring surface produced by Semtex Limited are :

SEMASTIC DECORATIVE TILES : These tiles are sympathetic to the tread. They are manufactured by passing through steel precision rollers at high temperature and under high pressure a mixture of fibrous and mineral fillers, specially developed pigments and syn-

thetic resin binders. The resultant composition being thermoplastic, the tiles themselves, when being laid, mould to fit irregularities in the sub-floor, and thus impact loads are absorbed directly by the structural floor. Semastic Decorative Tiles are available in a wide range of plain and marbled colours.

FLEXIMER FLOORING : This floor surfacing material is applied in situ in a cold state. It bonds powerfully with concrete or steel and can be laid in certain circumstances over wood. It possesses a high degree of elasticity under traffic and is exceptionally hard-wearing. It is available in red or brown.

IN ADDITION TO laying these two types of floor surfacing material, Semtex Limited provides a comprehensive flooring service which handles inlaid rubber flooring and top-grade linoleum.

SEMTEX LIMITED ALSO manufactures and installs anti-corrosive, acid and alkali resistant materials for industrial protection.

SEMTEX LIMITED IS ready at all times to co-operate fully with you in solving problems of flooring or protection from chemical attack.

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For a list of the branch offices of Semtex Limited and the addresses of the contractors approved to lay Semastic Decorative Tiles, see Page xlii

9SE/D1

INDEX OF BUILDING MATERIALS' PRICES

By Ian Bowen

The Index Number at November, 1948

The index number for the middle of the fourth quarter of 1948 is 210.7. The following table shows how the index number representing the prices of 44 building materials has moved since the end of the war:—

(August, 1939 = 100)				
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	
	" 3	200.7	+ 3.5	
	" 4	206.0	+ 5.3	
1948	" 1	209.2	+ 3.2	
	" 2	208.3	- 0.9	
	" 3	207.9	- 0.4	
	" 4	210.7	+ 2.8	

Perhaps the most interesting point about the progress of the index over the last twelve months is the check to the upward trend in the second and third quarters of 1948. Between February and May, 1948, seven items showed a decline in price; the largest percentage fall was for manhole covers, the next for taps, and the other items which showed a reduction were lime (in small quantities), lavatory basins, ball valves, w.c.s and paint. Between May and August there was also falls in tiles, glazed tiles and some items of plumbers' brass-work. There was a temporary fall in the average price of bricks. Nevertheless, even over these two periods, some items continued their upward trend, including steel, roofing felt, roofing tiles, slates and wire nails.

There seem to have been several causes of the stability, or rather slight downward movement, of the index through this part of the year. The first was the falling-off in demand caused by the delayed effort of the capital cuts of autumn, 1947. Some of the excessive demand for bricks, glazed tiles and other items was now proportionately reduced in relation to supply, and stocks began to accumulate. Secondly, there was the influence of the Government's White Paper on wages and prices, which slowed down the rise in the prime costs of some of the principal materials industries; and, thirdly—by no means least important—may have been the "announcement effect" of the publication of the Simon Report on Building Materials.

The New Rise in the Fourth Quarter of 1948

The last figure in the series shows that the stabilization of prices has not been maintained. The rise of 2.8 points between August

and November, 1948, was due, first, to white lead and paint and, secondly, to a recovery in the price of bricks. There was also a small rise in the price of tubes, while the price of putty showed a slight fall.

The rise in lead prices is a result of changes in world prices rather than of domestic influences. The American inflation has not yet been halted, and up to the present the political possibility of an increase in Federal taxation is not sufficiently serious to check the rise in prices. What developments can now be expected? Even if the results of the election improve the chances of a bolder official attack on inflation, there are the rising needs of American rearmament to be put in the contrary balance. American agricultural prices have, of course, weakened, and suggestions have been made that the turning-point for prices in general is in sight; but such items as lead, timber and linseed oil are not likely to be in much less world demand in 1949 than in 1948. Little evidence can be found for the view that the external pressure on building materials' prices will be eased in the near future.

The analysis of the movement of building materials' prices by groups brings out this point very strongly:

(August, 1945 = 100)			
	August, 1948	November, 1948	
Group 1	Imported products	175.6	184.8
2	Metal	142.3	144.4
3	Quarried	133.8	133.8
4	Primary	107.3	107.4

Average for all materials, 129.6, 131.4.

Thus, Group 1, which had remained fairly stable from the beginning of 1947 to August, 1948, showed a quarter's rise of 13 points. Group 2 also rose, mainly because of the price of lead piping. Group 3 remained unchanged and group 4 hardly moved, being actually a point lower than in May.

THE FUTURE OF BUILDING MATERIALS' PRICES

Progressively, building materials are being released from control, and at the same time the capital cuts policy is showing its effect upon the manpower employed in the building materials' industries. It might therefore seem likely that the supply position was becoming adjusted to the demand, and that at any rate those products which are not directly linked with imported raw materials should show a continued reduction in price throughout 1949.

Such an optimistic view is in fact justified. A review of building materials' prices for the last two years suggests that "primary" and quarried products are under a reasonable degree of control, and furthermore the easing of demand will have restored competition to several of these industries. But this reduction in demand is not always beneficial in its effects. Some industries have found themselves over-equipped; factories have had to be closed down, or their working forces seriously reduced.

The new level of working is not in all cases as economic as the old; as far as costs are concerned they have not been reduced at an equal pace with demand. Indeed, there is much to be said for the view that the Government should not have set new targets to the materials' industries, but should have allowed full production—which after all had in many cases been previously urged from Whitehall—to proceed and be used in "less essential" buildings. This would have been a difficult policy to pursue, however, and the reasons for the Government hesitating in this matter are not at all obscure; full production might only have led to a piling up of unused stocks, and waste of manpower might have resulted.

But the result of the cuts enforced on the industries has now been that the somewhat exaggerated expansion was followed by a somewhat exaggerated contraction. If demand is allowed to revive in 1949, then

it may press upon a supply that will no longer be so elastic; then, not only higher costs but higher demand will have an upward effect on prices.

This possibility, together with the upward pressure on the "imported" items of the American market, make it far from certain that prices will necessarily turn downwards in 1949. But there is at least a chance that they will do so. The strength of the rings and price agreements that have aroused so much attention will be tested. There will be economic pressure on individual firms which will be out to undersell their rivals. Even the lifting of licensing restrictions on building may not boost up demand sufficiently to offset the tendency for competitive conditions to be restored. The year 1949 may then see a relative stabilization in prices, if not a fall.

But although this chance certainly exists, at present the chances seem to lie on the other side. There is an immense volume of building yet to be done in this country—a huge schools programme, new towns, housing and industrial building, both new work and repairs—and it seems difficult to believe that the end of the boom in demand is yet fully in sight. A pause will come only if business firms find themselves in increasing difficulty over their maintenance and extension programmes (for both factories and commercial premises). If a general fall in the liquidity of firms, and a difficulty in raising loans, developed in 1949, then certainly the building boom would be broken—and materials' prices would ultimately have to decline.

The recent announcement of a reduction in paint prices from January 1, 1949, is welcome, and suggests that more might be done in the same direction for other commodities.

Announcements

The Liverpool Branch of Philips Electrical Ltd., formerly at 47a/49, Tithebarn Street, has removed to 6/10, Leeds Street, Liverpool. Telephone: Liverpool Central 4584/5.

The new price list of Richard Thomas & Baldwins' Heavy-Duty Pressed Aluminium-Alloy Rainwater Goods shows appreciable reductions, made possible by an increasing demand and improved methods of manufacture.

From January 1 the Birmingham office of Messrs. Kwikform Ltd., will be at 194, Waterloo Road, Birmingham, 25. Phone: Acocks Green 1152/3/4.

Renfrew Foundries Ltd., Hillington, Glasgow, announce that as from January 1 sales engineers have been appointed to five areas, covering England, Scotland and Wales. They are as follows:—Scotland: R. McGlashan, Renfrew Foundries Ltd., Hillington Glasgow, S.W.2. Tel.: Halfway 3391. S. London and Southern England: J. S. Thompson, 53, Tudor Way, Hillingdon, Uxbridge, Middlesex. Tel.: Uxbridge 1633. Midlands and Wales: J. A. K. Fergie, The Leys, Adderbury, Banbury, Oxfordshire. Tel.: Adderbury 224. Northern England: A. J. Hebden, 41, Nab Wood Crescent, Shipley, Yorkshire. Tel.: Shipley 51929. N. London and Eastern Counties: E. P. Mendoza, 16a, Green Court, Green Lane, Edgware, Middlesex. Tel.: Edgware 8954.

Owing to the continually increasing demand for utility and decorative veneers, the Stanford Trading Co. Ltd., have acquired extensive new premises, at 138, Kingsland Road, London E.2. The new premises will be used for storage and warehousing purposes, the main offices remaining at Stamford House, 24/26, Kingsland Road.

The Minister of Works has appointed Mr. A. J. Filer as Director-General of Building Materials in place of Mr. E. A. Seal, C.B., who was recently appointed

Deputy Under-Secretary of State in the Foreign Office (German Section).

Messrs. Truett & Steel, of Thornton Heath and Westminster, have strengthened their board of directors by the addition of Messrs. L. T. Truett, R. F. Steel and W. J. Foster. Mr. L. T. Truett and Mr. R. F. Steel have been associated with the firm for many years and are the sons of existing directors, Mr. E. T. Truett and Mr. F. C. Steel. Mr. W. J. Foster, who in addition will act as secretary to the company, has also had long experience in the building industry and is the son-in-law of the chairman, Mr. A. R. Steel.

The Combustion Appliance Makers' Association has changed its name to "The Combustion Engineering Association." Changes in the constitution allow full membership to many supporters who have hitherto been associate members. The address of the Combustion Engineering Association is 24, Tottenham Court Road, London, W.1.

The Birmingham Local Joint Committee for the Building Industry has decided that the fixed week for the holiday to be taken in 1949 under the Holidays with Pay Scheme shall be the normal working week commencing Monday, July 4, and terminating Saturday, July 9, both dates inclusive. The area covered by the Committee includes the whole of the City of Birmingham and a five miles' radius from Stephenson Place (excluding any portion of the Borough of West Bromwich), the County Borough of Smethwick, the Municipal Borough of Oldbury, portions of the Municipal Borough of Halesowen, portions of the Municipal Borough of Rowley Regis, and the whole of the Urban District of Solihull.

Tube Investments, Ltd., announces the following executive appointments to the board of the new subsidiary company, T.I. Aluminium, Ltd., which has been formed to co-ordinate the administrative, research and marketing organizations of the group's Aluminium Division, comprising Reynolds

Light Alloys, Ltd., Reynolds Rolling Mills, Ltd., and The South Wales Aluminium Co. Ltd.; Messrs. E. Austyn Reynolds, J. H. Catling, and W. H. Bowman are appointed executive directors jointly responsible for the production, administration, and the marketing of the products of the companies involved.

Buildings Illustrated

Houses at Lydd, Kent (pages 9-10.) Architect: Clifford E. Culpin, F.R.I.B.A. (Culpin & Son.) General Contractor: A. O. Laird, Ltd. Sub-contractors: Tiles, John Williams & Co. (Rotherhithe), Ltd.; coloured asphalt, Val-de-Travers; waterproofing materials on flat roofs, "Pudlo"; boilers, Ideal; electric wiring, Electrical Installation, Ltd.; sanitary fittings, Alfred Olby, Ltd.; door furniture, James Gibbons; kitchen fittings, Walter Lawrence, Ltd.

Corrections

In the description of the new hydro-electric project at Lochalsh, Ross-shire, a photograph of which was published in last week's JOURNAL, the name of the chief contractors, Messrs. Richard Costain, Ltd., was omitted.

In the description of the Kingston Power Station, published in our issue for November 4, we omitted to state that Messrs. Tileman and Co. Ltd. were the sub-contractors for the reinforced concrete chimneys.

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

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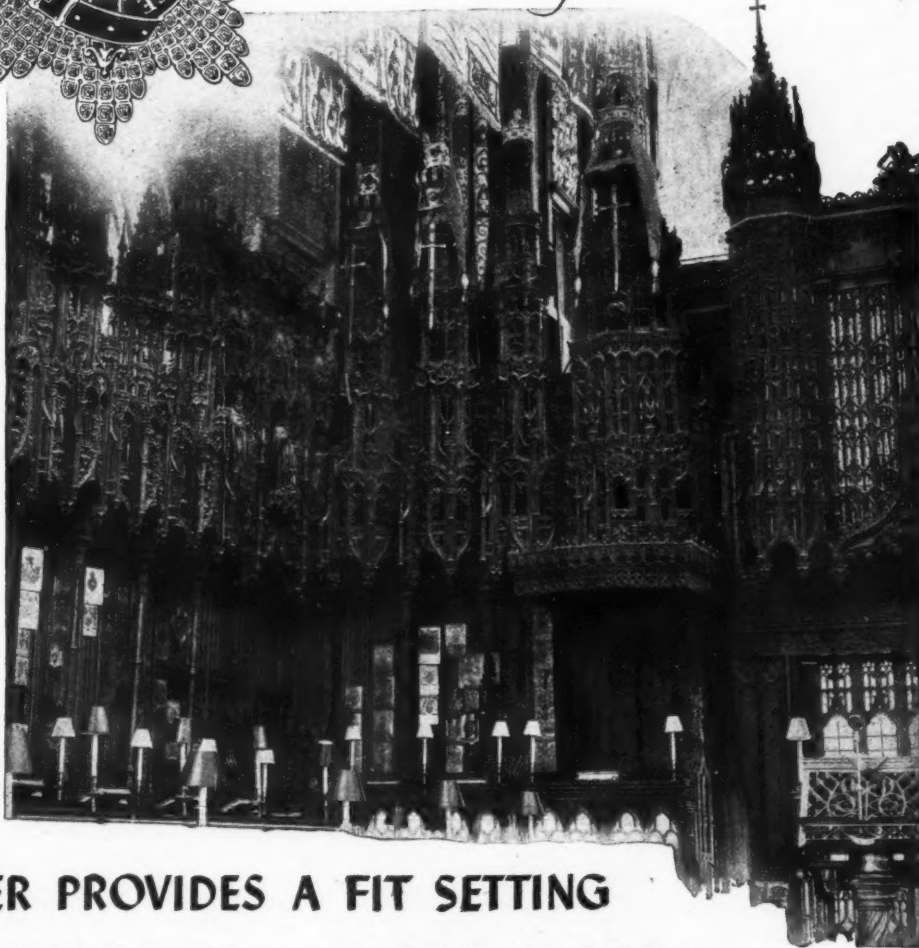
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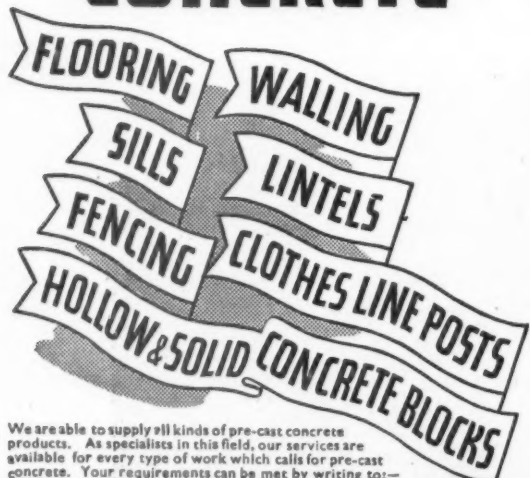
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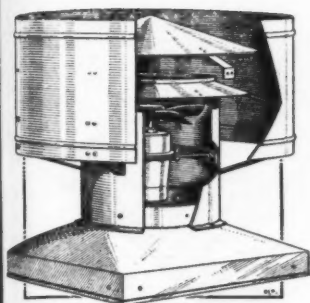


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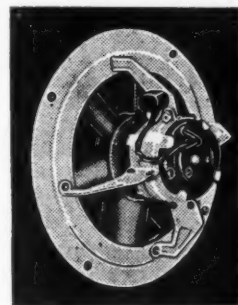
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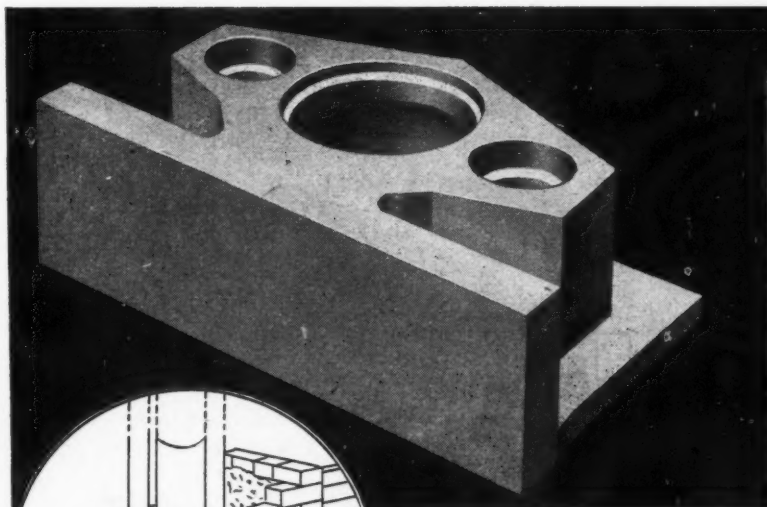
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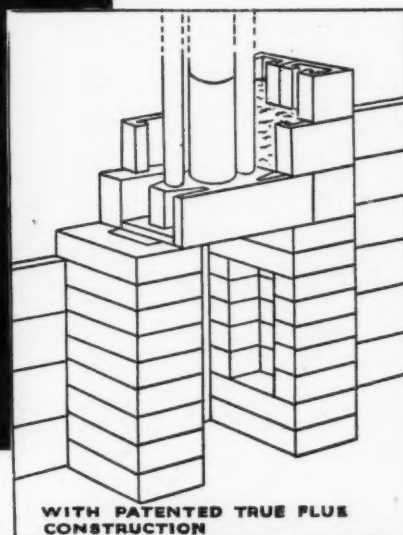
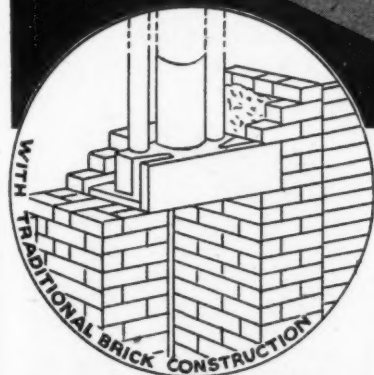
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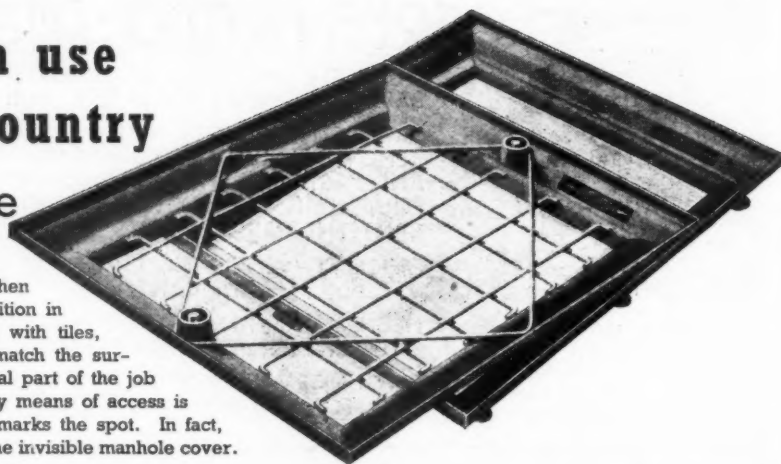
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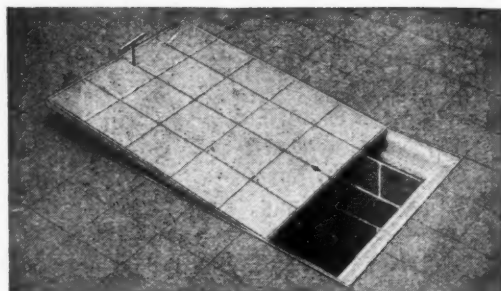
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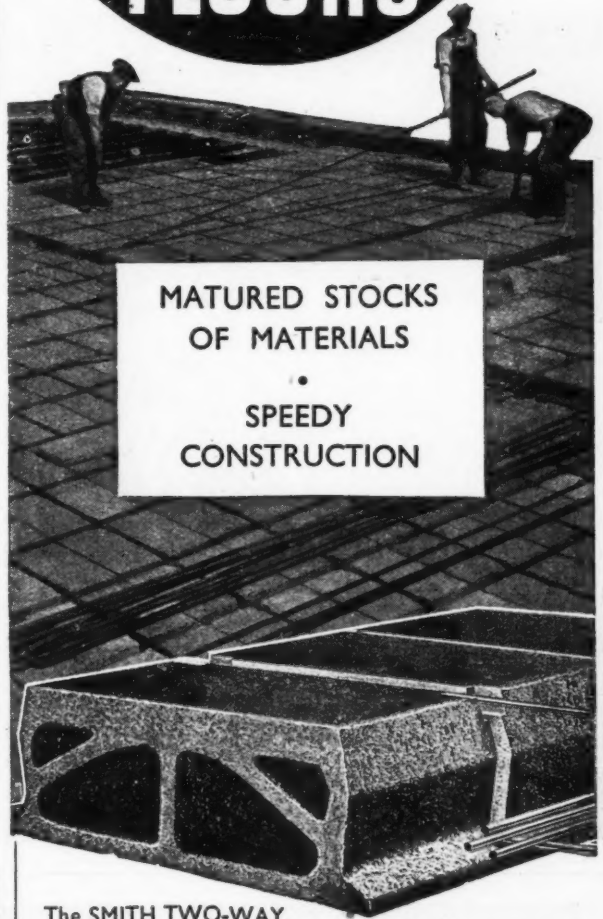
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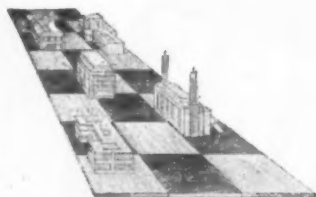
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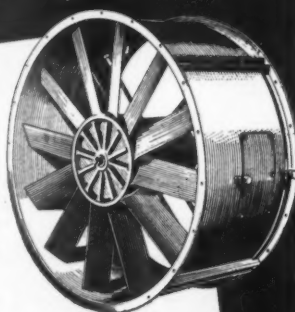
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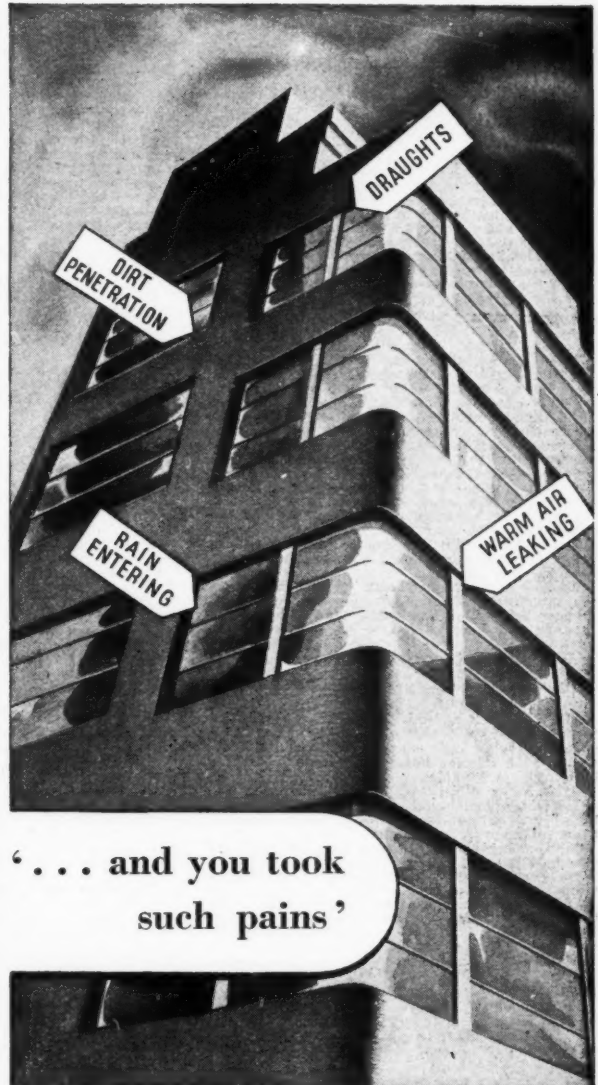
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Salary within scale £400×£200-£525 in London, entry at £400 at age 26 (less below that age), and up to £440 at age 28 or over, slightly less at Woburn Green.

QUANTITY SURVEYING ASSISTANTS (Grade IV).

Candidates should have had training and experience with a Quantity Surveyor or Building Contractor, and be capable of squaring dimensions and abstracting and billing under the minimum of supervision. Salary within scale £330×£15-£450 in London, entry at £330 at age 25 (less below that age), and up to £375 at age 28 or over, slightly less at Woburn Green.

Applications should be addressed to Appointment Officer, Imperial War Graves Commission, Woburn House, Woburn Green, Bucks. 1215

DEVON COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the County Architect's Department, at consolidated salaries, in accordance with the grades of, and subject to the scheme of conditions of service of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services.

(a) ONE ASSISTANT ARCHITECT. A.P.T. Grade VI. Commencing salary £595 p.a., rising by three annual increments (£20×£20×£25) to £660 p.a.

(b) TWO ASSISTANT ARCHITECTS. A.P.T. Grade V. Commencing salary £520 p.a., rising by three annual increments (£15×£15×£20) to £570 p.a.

(c) ONE ASSISTANT ARCHITECT. A.P.T. Grade III. Commencing salary £450 p.a., rising by three annual increments (£15×£15×£15) to £495 p.a.

(d) ONE ASSISTANT ARCHITECT. A.P.T. Grade I. Commencing salary £390 p.a., rising by three annual increments (£15×£15×£15) to £435 p.a.

Candidates for (a) and (b) must be Associates of the R.I.B.A., and possess a sound experience in the design and maintenance of all types of buildings carried out by a large Local Authority; they must be fully conversant with the Building Regulations of the Education Act, 1944, and the Regulations for Police Buildings; and possess organizing ability and experience in the management of building contracts.

For (c) candidates must have a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A. and for (d) candidates with experience of local authority architectural work will be preferred.

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Saturday, the 15th January, 1949.

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 candidate will be required to pass a medical examination.

H. A. DAVIS,
Clerk of the County Council.
The Castle, Exeter.
15th December, 1948. 1182

METROPOLITAN BOROUGH OF LEWISHAM. APPOINTMENT OF SURVEYING ASSISTANT. BOROUGH ARCHITECTS' DEPARTMENT.
Applications are invited for the appointment of a SURVEYING ASSISTANT on the permanent establishment. Salary scale A.P.T. Division, Grade IV (£480, rising to £535 per annum, plus London "weighting," varying between £10 and £30 per annum, according to age).

Candidates should have completed a proper course of training or articles and should have had surveying experience.

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

Forms of application may be obtained from me, and should be returned accompanied by copies of not more than three recent testimonials, addressed to me in an envelope endorsed with the name of the appointment applied for, so as to be received not later than Saturday, the 22nd January, 1949.

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

ALAN MILNER SMITH,
Town Clerk.
Lewisham Town Hall, Catford, S.E.6. 1270

METROPOLITAN BOROUGH OF POPLAR. Appointments of:—

(a) ARCHITECTURAL ASSISTANT (A.P.T. IV).

(b) ARCHITECTURAL ASSISTANT (Misc. D). Applications are invited from suitably qualified persons for the above-mentioned appointments on the permanent establishment of the Borough Engineer and Surveyor's Department.

Full details of the appointments and forms of application may be obtained from the Borough Engineer and Surveyor, Poplar Town Hall, Bow Road, E.3, to whom completed applications must be delivered not later than first post on Monday, 24th January, 1949. 1271

METROPOLITAN BOROUGH OF HOLBORN. HOUSING AND PLANNING DEPARTMENT.

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

(a) ASSISTANT ARCHITECT.

Salary Grade A.P.T. V, commencing at £500 per annum, rising by two increments of £15 and one of £20 to a maximum of £570 per annum, plus London weighting (at present £30 p.a.).

Candidates should be suitably qualified Architects, and should have had a good general architectural training, including experience in the preparation of sketch plans, specifications and estimates. They should also be used to supervising works in progress. Experience in Municipal housing in London would be an advantage.

(b) ESTATES ASSISTANT.

Salary Grades A.P.T. C-VI. Grade V commences at £520 per annum, rising by two increments of £15 and one of £20 to a maximum of £570 per annum, and Grade VI commences at £595 per annum, rising by two increments of £20 and one of £25 to a maximum of £660, plus London weighting in each case, now £30 p.a.

Candidates must be qualified Architects or Surveyors, and must have a sound practical knowledge of building construction. The successful candidate will be required to handle all orders for the repair and maintenance of requisitioned property, to inspect buildings, prepare schedules of condition and specifications, and to supervise and speed the progress of repairs and other works.

(c) JUNIOR ASSISTANT ARCHITECT.

Salary Grade A.P.T. II, commencing at £420 per annum, rising by three increments of £15 to £465 per annum, plus London weighting.

Candidates should have passed their Intermediate examination of the R.I.B.A., or be engaged on a recognized course of study for the examination. They should have had some experience in an Architect's Department of a Local Authority. They should be able to carry out surveys and prepare sketch plan and working drawings under supervision.

No application forms will be issued. Full particulars, together with the names of three referees, to the Town Clerk, Town Hall, 197, High Holborn, W.C.1, not later than 8th January, 1949. 1272

GOVERNMENT OF NORTHERN IRELAND. MINISTRY OF FINANCE. ARCHITECTURAL ASSISTANTS.

Vacancies exist for Architectural Assistants in the Works Division of the Ministry of Finance. The appointments will be non-pensionable, but opportunities will arise to secure established pensionable status.

Remuneration: The range of salary is £250-£600 and the starting pay will be assessed according to qualifications and experience. Successful candidates who subsequently gain admission to the Register of Architects will be advanced to the rank of Assistant Architect, Grade "C," which carries the salary range £400-£600.

Qualifications: Candidates must have had at least four years' experience in an Architect's drawing office. Preference will be given to candidates who have a good knowledge of construction. Preference will also be given to ex-Servicemen candidates of the 1914-1918 or 1939-45 war, provided that such candidates can or within a reasonable time will be able to fill the posts efficiently.

Applications, giving date of birth and full details of training and qualifications, should reach the Assistant Secretary (Establishment), Ministry of Finance, Stormont, Belfast, on or before the 28th January, 1949. 1273

BOROUGH OF WEMBLEY. APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

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

Applicants must have passed the examinations of the R.I.B.A., and have had considerable experience of the design, construction and supervision of houses, flats and Municipal buildings.

Salary A.P.T. Division, Grade VI, namely (£255 (£1) to £690 per annum.

The appointment is subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, 1937 and 1939, and to the successful applicant passing a medical examination.

Applications, stating age, qualifications and experience, and whether related to any Member or Senior Officer of the Council, must reach the Borough Engineer and Surveyor at the Town Hall, Wembley, by not later than the 22nd January, 1949.

Canvassing of Members of the Council or any Committee of the Council, directly or indirectly, will disqualify an applicant.

KENNETH TANSLEY,
Town Clerk.

Town Hall, Wembley.
4th January, 1949. 1309

CITY OF WAKEFIELD. CITY ENGINEER'S DEPARTMENT. CHIEF TOWN PLANNING ASSISTANT (GRADE VII).

Applications are invited for the appointment of Chief Town Planning Assistant, Grade A.P.T., VII (£635-£710).

The successful applicant will be required to take charge of the Town Planning Section of the City Engineer's Department, under the direction of the City Engineer, and applicants should hold a Town Planning qualification.

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

Candidates should state in writing whether to their knowledge they are related to any member or senior official of the Corporation. Canvassing will be a disqualification.

Applications, endorsed "Chief Town Planning Assistant," stating age, qualifications, present and previous appointments and experience, should be accompanied by copies of two testimonials and sent to me not later than Saturday, the 29th January, 1949.

The Council will give favourable consideration to the provision of housing accommodation.

W. S. DES FORGES,
Town Clerk.

Town Hall, Wakefield.
29th December, 1948. 1307

TARVIN RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Office of the Engineer and Surveyor.

Applicants must have had sound training by pupillage and had previous experience in design and construction of building works, particularly in relation to housing. Preference will be given to persons qualified by the examination of the R.I.B.A.

The salary will be in accordance with Grade II (Technical Division) of the National Joint Council Scheme, viz., £420 × £15-£465.

The appointment will be subject to one month's notice in writing on either side, to the provisions of the Local Government Superannuation Act, 1937, and to the selected candidate passing satisfactorily a medical examination.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be addressed to Mr. Thomas Frichard, M.I.Mun.E., and enclosed in an envelope endorsed "Architectural Assistant," and should reach this Office not later than Thursday, the 20th January, 1949.

(Sgd.) **J. H. MOORE DUTTON,**
Clerk to the Council.

Westminster Buildings, Newgate Street,
Chester.
31st December, 1948. 1306

IMPERIAL WAR GRAVES COMMISSION

invite applications to fill vacancies in their London and Woburn Green offices in the following grades:—

ARCHITECTURAL DRAWING OFFICE STAFF — LEADING ARCHITECTURAL DRAUGHTSMEN.

Candidates should have several years' experience in an Architect's office, preferably have reached at least Intermediate R.I.B.A. or equivalent standard, and be capable of supervising the work of a small team of draughtsmen. Salary within scale: £500 × £20-£625 (men), £425 × £15-£500 (women) in London, slightly less at Woburn Green.

ARCHITECTURAL DRAUGHTSMEN. Candidates should be skilled draughtsmen, capable of preparing half-inch scale working drawings and full size details from the Architect's designs. Salary within scale: £300 × £20-£525 (men), £230 × £15-£450 (women) in London, entry at £300 at age 21 (less below that age) and up to £440 (men), £405 (women) at age 28 or over, slightly less at Woburn Green.

Applications should be addressed to Appointments Officer, Imperial War Graves Commission, Woburn House, Woburn Green, High Wycombe, Bucks. 1223

HAYDOCK URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENT. TECHNICAL ASSISTANT.

The Council invite applications for the above appointment at a consolidated salary, in accordance with Grade III, A.P.T. Division of the National Scale (£450 per annum, rising by annual increments of £15 per annum, to a maximum of £495 per annum).

Applicants must have had experience in the carrying out of Surveys, the preparation of plans, specifications for architectural work usually undertaken by a Local Authority, and in particular Housing.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the National Joint Council Scheme of Conditions of Service, and the person appointed will be required to pass a medical examination.

The Council will be prepared to allocate a Council house to the successful applicant, if desired.

Applications, endorsed "Technical Assistant," stating age, present and previous appointments and experience, together with names of two persons to whom reference may be made, should be received by the undersigned not later than the 22nd January, 1949.

Canvassing, directly or indirectly, will disqualify, and applicants must state whether or not they are related to any member or senior officer of the Council.

C. LEDGER,
Clerk of the Council.

Council Offices, Church Road, Haydock.
30th December, 1948. 1292

CIVIL SERVICE. QUANTITY SURVEYORS AND ASSISTANT QUANTITY SURVEYORS

are required throughout the United Kingdom and occasionally overseas by the Ministry of Works, Admiralty, War Department, Air Ministry and War Damage Commission. Although these are not established posts, some of them have long-term possibilities, and competitions are held periodically to fill established vacancies.

Salaries for these professional posts in London for officers over 26 years of age range from £500 to £750 per annum in lower grades, and from £750 to £1,000 p.a. in the higher grades. They are slightly lower in the provinces. Salary on entry will be in accordance with age, qualifications and experience.

Vacancies also exist for QUANTITY SURVEYING ASSISTANTS, and others including those who are studying for their professional examinations, at salaries ranging from £300 p.a. upwards.

Applicants should apply, quoting ref. Q.S., to Room 377, Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, W.C.2. 1227

CARMARTHENSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for appointment to the following posts in the Department:—

(a) TWO ASSISTANT ARCHITECTS. Grade VI (£595-£660).

(b) ONE ASSISTANT ARCHITECT. Grade V (£520-£570).

(c) TWO ASSISTANT ARCHITECTS. Grade IV (£480-£525).

(d) ONE ASSISTANT QUANTITY SURVEYOR. Grade V (£520-£570).

Candidates for posts under (a) must be Associates of the Royal Institute of British Architects, and must have had a good experience in the design and construction of educational and general buildings normally carried out by a Local Authority.

For posts (b) and (c) preference will be given to candidates who are respectively Associates and Students of the Royal Institute of British Architects. They must be competent to prepare working and detailed drawings.

Candidates for post (d) should be suitably qualified and must have had experience in the preparation of Bills of Materials, settlement of final accounts, and estimating for all classes of building works.

The above appointments will be subject to the National Joint Council's Scheme of conditions of Service, the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side.

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

Applications, stating age, qualifications, past and present appointments, with details of experience, together with copies of two recent testimonials, should be sent to W. T. Lloyd, A.R.I.B.A., County Architect, County Hall, Carmarthen, not later than Saturday, 22nd January, 1949.

DANIEL JOHNS,
Clerk of the County Council.

County Offices, Carmarthen. 1256

URBAN DISTRICT COUNCIL OF BILLERICAY.

ARCHITECTURAL ASSISTANT.
Qualifications: Intermediate R.I.B.A. or A.R.I.B.A.

Salary: A.P.T. Division, III, £450 × £15 to £495, or A.P.T. Division, IV, £480 × £15 to £525, according to qualifications.

Applications, on forms to be obtained from the Surveyor, Council Offices, Billericay, should be forwarded to the undersigned not later than Saturday, 15th January, 1949.

A. HATT,
Clerk of the Council.

Council Offices, Billericay, Essex. 1247

BOROUGH OF MACCLESFIELD. APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, at a salary in accordance with Grade A.P.T., V(a), of the National Scales (Consolidated), commencing at £550 per annum, rising to £610 per annum.

Candidates should be Associates of the R.I.B.A. and must have had a thorough training and experience in Architectural work. Preference will be given to applicants who have had experience in Municipal housing.

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

Applications, stating age, experience and qualifications, and accompanied by a copy of a recent testimonial, and giving the names, etc., of two referees, should reach the undersigned not later than Wednesday, 19th January, 1949.

WALTER ISAAC,
Town Clerk.

Town Hall, Macclesfield.
24th December, 1948. 1263

BOROUGH OF STOCKTON-ON-TEES. BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with A.P.T., Grade IV, £480-£525 per annum.

Candidates must be capable of undertaking all stages of work in the preparation of bills of quantities, specifications, and preliminary estimates.

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

Housing accommodation, if necessary, will be made available to the successful applicant.

Applications, stating age, present appointment and salary and previous experience, accompanied by a copy of one recent testimonial, together with the names and addresses of two persons to whom reference may be made, must reach me not later than Monday, the 31st January, 1949.

FRANK HILL,
Town Clerk.

Barclays Bank Chambers, Stockton-on-Tees.
28th December, 1948. 1262

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the A.P.T. Grades, VII to VIII (£635, rising to £760); the commencing salaries will be determined according to experience:—

(a) ASSISTANT ARCHITECTS (TWO).

Candidates should be Associates of the R.I.B.A. and have good general experience in the design and construction of public buildings, including schools. Training at one of the recognized schools of architecture will be an asset.

(b) ASSISTANT QUANTITY SURVEYOR.

Candidates must be capable of undertaking all stages of work in the preparation of bills of quantities, specifications and preliminary estimates. Preference will be given to Associates of the R.I.C.S.

The appointments will be determinable by one month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Acts. Travelling and subsistence allowances will be paid in accordance with the Council's approved scales.

No forms of application will be issued, but applicants should give particulars of age, qualifications, training, experience and war service (if any), together with the names, status and addresses of two persons to whom reference can be made. Applications, endorsed "Assistant Architect" or "Assistant Quantity Surveyor" as the case may be, must be forwarded to the County Architect, County Hall, Northampton, not later than 24th January, 1949.

J. ALAN TURNER,
Clerk of the County Council.

County Hall, Northampton. 1244

LANCASHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

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

(a) Assistant HEATING ENGINEER. Grade VI. Salary £595-£660 per annum. Applicants should be experienced in the design of heating and hot water installations of buildings, and must be Corporate Members of the Institute of Heating and Ventilating Engineers.

(b) JUNIOR QUANTITY SURVEYORS.

A.P.T. Grade I. Salary £390-£435 per annum.

Applicants should be experienced in abstracting and working up.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937; to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 15th January, 1949.

R. H. ADCOCK,
Clerk of the County Council.

County Offices, Preston.
22nd December, 1948. 1236

BOROUGH OF NELSON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of JUNIOR ARCHITECTURAL ASSISTANT, in the Borough Surveyor's Department, at a salary in accordance with Grade III of the National Scales, £450-£15-£495 (consolidated).

Candidates should have experience in housing and general works, and preference will be given to applicants who have passed the Inter. R.I.B.A. examination. Applications, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant," with copies of three recent testimonials, to be delivered to the undersigned on or before Thursday, 20th January, 1949.

F. W. ROBERTS,

Town Clerk.

Town Hall, Nelson, Lancashire.
24th December, 1948.

1268

COUNTY BOROUGH OF CROYDON. JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for this appointment from suitably qualified candidates who have had architectural experience (particularly housing) with a Local Authority.

Salary: Grade A.P.T. II, £420-£15-£465 per annum (plus London weighting of £30 per annum, £30 per annum if under 26 years of age). The appointment is pensionable, subject to medical examination.

The Council are unable to offer housing accommodation.

Forms of application may be obtained from the Borough Engineer, Town Hall, Croydon, and should be returned to him not later than Saturday, 15th January, 1949.

Canvassing will disqualify.

E. TABERNER.

Town Clerk.
1265

DERBYSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

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

SENIOR ASSISTANT ARCHITECTS.

(a) Salary £760 to £860 per annum, by annual increments of £25.

(b) Grade VIII, £685 to £760 per annum.

(c) Grade VII, £635 to £710 per annum.

(d) Grade VI, £595 to £660 per annum.

Applicants must have had experience in the design and construction of modern buildings, and must possess a professional qualification. Preference will be given to those who have had administrative experience.

QUANTITY SURVEYORS.

(a) Grade VIII, £685 to £760 per annum.

(b) Grade VII, £635 to £710 per annum.

(c) Grade VI, £595 to £660 per annum.

(d) Grade V, £520 to £570 per annum.

Applicants must have had experience in the preparation of Estimates, "Taking off" quantities for all trades, measuring up and preparing final accounts.

ASSISTANT QUANTITY SURVEYOR.

(i) Grade II, £420 to £465 per annum.

Applicants must have had experience in assisting with "Taking off" and "Working-up." Canvassing of members of the Council, directly or indirectly, will be a disqualification for appointment.

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

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 15th January, 1949.

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.

St. Mary's Gate, Derby.

31st December, 1948.

1266

GOVERNMENT OF NORTHERN IRELAND. MINISTRY OF FINANCE. ASSISTANT ARCHITECTS.

Applications are invited for posts of Assistant Architects, in the Works Division of the Ministry of Finance. The appointments will be non-pensionable, but opportunities will arise to secure established pensionable status.

Remuneration: The ranges of salary attaching to the posts are:—

Assistant Architect.—Grade B, £500-£750.

Assistant Architect.—Grade C, £400-£600.

and the entry point will be determined according to the qualifications and experience of the successful candidates. A lower salary than £500 may be fixed in the case of candidates for Grade B posts who are under 26 years of age.

Qualifications: Candidates must be Registered Architects by examination. In addition, candidates for Grade B posts must have had good general experience in an Architect's office, including the design of specifications.

Preference will be given to ex-Servicé candidates of the 1914-1918 or 1939-45 war, provided that such candidates can or within a reasonable time will be able to fill the posts efficiently.

Applications, giving date of birth and full details of training and qualifications, should reach the Assistant Secretary (Establishments), Ministry of Finance, Stormont, Belfast, on or before the 28th January, 1949.

1258

LONDON COUNTY COUNCIL.

Required at Brixton School of Building, Fernside Road, S.W.4, to commence as soon as possible, a HEAD OF ART DEPARTMENT. The successful candidate will be required to direct the work of full-time and part-time courses in Decoration and Painting and to advise in connection with matters of design as affecting the work of the School as a whole.

Candidates must have a sound knowledge of the craftsmanship associated with painted decoration, and should have industrial experience in this work. They must also be competent designers, with special knowledge of interior decoration. A.R.C.A. or comparable qualification a recommendation; good teaching experience essential. Burnham Scale salary for Grade (I) department, £700-£25-£850 p.a., plus London allowance, and where applicable graduate and training additions. Full particulars and application form (stamped addressed envelope necessary) from the Education Officer (T.1) County Hall, S.E.1, returnable by 29th January, 1949. (2315) 1218

CHESHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

APPOINTMENT OF TECHNICAL STAFF.
Applications are invited for appointments in the following A.P.T. Grades of the National Joint Council's Scheme of Conditions of Service:—

(a) SENIOR ARCHITECTURAL ASSISTANT. Grade VI, £595 per annum, rising to £660 per annum.

(b) ARCHITECTURAL ASSISTANT. Grades V and Va, £520 per annum, rising to £610 per annum.

(c) ARCHITECTURAL ASSISTANTS. Grade V, £520 per annum, rising to £570 per annum.

(d) ARCHITECTURAL ASSISTANT. Grade IV, £480 per annum, rising to £525 per annum.

(e) ARCHITECTURAL ASSISTANT. Grades III and IV, £450 per annum, rising to £525 per annum.

(f) ARCHITECTURAL ASSISTANT. Grade I, £390 per annum, rising to £435 per annum.

Candidates for appointment (a) should be registered Architects, holding A.R.I.B.A. or equal qualification.

The persons appointed will be contributory employees under the Local Government Superannuation Act, 1937, and will be required to pass a medical examination to the satisfaction of the Council.

The appointments will be determinable by one month's notice on either side.

Applications must be made on the appropriate forms, which are obtainable from the undersigned, to whom they should be returned, completed, together with typewritten copies of not more than three recent testimonials, by Monday, 24th January, 1949.

Canvassing, either directly or indirectly, is forbidden.

The Council cannot assist successful applicants in finding housing accommodation.

E. M. PARKES, F.R.I.B.A.,

County Architect.

The Castle, Chester.

3rd January, 1949.

1217

KENT COUNTY COUNCIL.

Applications are invited for four appointments of ASSISTANT ARCHITECTS, each at a salary in accordance with A.P.T. Division, Grade V(a) (£550-£610 a year).

The posts are superannuable, and successful candidates will be required to pass a medical examination.

Candidates must be Members of the Royal Institute of British Architects and have good general experience in modern building practice. Previous service with a Local Authority is not essential.

Forms of application may be obtained from the County Architect, Springfield, Maidstone, within 14 days of the date on which this advertisement appears.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone.

21st December, 1948.

1242

THE CORPORATION OF THE CITY OF GLASGOW.

MASTER OF WORKS AND CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments in the Master of Works and City Engineer's Department:—

(a) ARCHITECTURAL ASSISTANTS.
Candidates must be experienced in the preparation of plans and working drawings for General Architectural Works.

(b) QUANTITY SURVEYING ASSISTANTS.
Candidates must be experienced in taking-off quantities, preparing Schedules and Specifications, and in measuring and preparing Final Measurements for General Engineering and Architectural Works.

The salary scales applicable are in accordance with A.P.T. Grades I, III and V, viz., £390-£570, and VI, viz., £595-£660. The actual gradings and placements will be in accordance with individual applicant's qualifications and experience.

The appointments will be permanent and are subject to the provisions of the Glasgow Corporation Superannuation Scheme.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be lodged with the undersigned not later than 28th January, 1949.

ROBERT BRICE, B.Sc., M.Inst.C.E.,

M.I.Mun.E.,

Master of Works and City Engineer.

City Chambers, Glasgow, C.I.

20th December, 1948.

1264

COUNTY OF LINCOLN—PARTS OF KESTIVEN.

KESTEVEN TRAINING COLLEGE: STOKE ROCHFORD, NEAR GRANTHAM, Lincs.

The County Council is proposing to erect two hostel blocks, gymnasium, etc., at Stoke Rochford Hall, in connection with the use of the above premises as a Teachers' Training College, and invite firms to indicate their willingness to submit Tenders for building work if selected to do so.

Applications in connection with the above should be submitted to L. D. Tomlinson, Esq., F.R.I.B.A., Quadrant Arcade, Romford, Essex, not later than the 17th January, 1949.

Selected firms will be supplied with Forms of Tender and Bills of Quantities.

Tenders must be delivered not later than the 31st January, 1949, and should be addressed to the undersigned in plain sealed envelopes endorsed "Tender—Stoke Rochford Hall Hostel"; the envelopes must not bear any mark or name indicating the sender.

Drawings may be inspected at the office of the Clerk of Works, Stoke Rochford Hall.

Any contract entered into shall comply with the Standing Orders of the County Council, and the Council does not bind itself to accept the lowest or any tender.

J. E. BLOW,

Clerk of the County Council.
County Offices, Sleaford, Lincs.

28th December, 1948.

1274

FLINTSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointment:—

PLANNING ASSISTANT (ARCHITECTURAL), at a salary in accordance with Grade A.P.T. VI (£595, rising to £660 per annum, consolidated).

Applicants should have had considerable experience, including the control of development, in the Planning Office of a local authority or joint planning committee, and particularly on the architectural side of planning. The possession of a recognized architectural qualification and Corporate Membership of the Town Planning Institute is desirable. A car is essential in connection with the appointment, for which an allowance will be made in accordance with the National Joint Council's scale.

The appointment will be subject to (a) the National Scheme of Conditions of Service, as modified by the County Council; (b) the Local Government Superannuation Act, 1937, and (c) the passing satisfactorily of a medical examination.

Applications will be considered from registered disabled persons.

Applications, on a form to be obtained from the undersigned, accompanied by copy of one recent testimonial and the names and addresses of two other persons to whom direct reference can be made, are to be submitted to me not later than the 24th January, 1949.

W. HUGH JONES,

Clerk of the County Council.
County Buildings, Mold.

January, 1949.

1249

BOROUGH OF DOVER.

ASSISTANT ARCHITECT.

Applications are invited for the above appointment. Salary Grade V of the National Scales (£520-£570 per annum).

Applicants must have recognized architectural qualifications, and experience in housing, Municipal building design, and general building construction.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must reach the Borough Engineer, Maison Dieu House, Dover, by Monday, 17th January, 1949.

The Corporation is prepared to make a grant not exceeding 50 per cent. of approved expenditure in respect of household removal expenses.

JAMES A. JOHNSON,

Town Clerk.
Brook House, Dover.

23rd December, 1948.

1246

BOROUGH OF SOUTHALL.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, on the permanent staff of the Corporation, at a salary in accordance with A.P.T. VII, of the National Scheme (£635-£710), plus appropriate London weighting.

Candidates must be Members of the Royal Institute of British Architects, and have previous Local Government experience.

The person appointed will be responsible for the Town Planning work of the Department in addition to Architectural work, and Town Planning experience is, therefore, desirable.

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

Candidates should state whether or not they would require housing accommodation.

It is a condition of appointment that the successful applicant shall be a member of his appropriate trade union, professional organization or other recognized body.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him on or before Monday, 17th January, 1949.

Canvassing will disqualify.

J. S. SYRETT,

Town Clerk's Office, Southall.

1250

OVERSEAS FOOD CORPORATION.

Applications are invited for the architectural appointments in East Africa listed below. Salary ranges shown indicate only respective scales within which commencing salary will be fixed according to qualifications and experience. Conditions of service for all posts provide free passages to and from East Africa on appointment and for home leave, which is at rate of six months every three years, plus local leave. Free housing and basic furnishings provided as soon as available. Free medical services provided. Successful candidates will be required to take up posts at an early date. Wives and families of employees on contracts of three years or more will be able to join them as soon as married quarters available, but this may take up to eighteen months; meanwhile a separation allowance of £100 per annum will be paid. All initial contracts three years unless otherwise stated.

(a) ARCHITECTS. £800-£1,100. (b) ASSISTANT ARCHITECT. £750-£950. (c) ARCHITECTURAL DRAUGHTSMEN. £600-£700. (d) TRACERS. £500-£600, initial contract two or three years. Candidates for (a) should hold recognized architectural qualification and be experienced in design and layout of houses, Municipal and commercial buildings. Majority of the work will be adaptation of standard prefabricated designs in timber and steel and the running of a small architectural section under general direction of an Area Civil Engineer. Candidates for (b) should have had good architectural training and be capable of designing from rough sketches and preparing working drawings and preferably hold a recognized or part professional qualification. Candidates for (c) should be experienced architectural draughtsmen, capable of preparing working drawings and preferably with experience in architect's office of a Municipality or one engaged on Municipal type works. Candidates for (d) should be experienced tracers of either sex and single, for employment on short contract of approximately two years in the first instance.

Letters of application, including full details of experience and qualifications, should be addressed to Personnel Manager (Civil Engineering), Overseas Food Corporation, 1, Connaught Place, London, W.2. 1293

WEST SUFFOLK COUNTY COUNCIL.

TOWN PLANNING DEPARTMENT.
Applications are invited for the appointment of ASSISTANT PLANNING OFFICER in the above Department at Bury St. Edmunds. The salary will commence at £700 and rise by annual increments of £25 to £800 per annum.

The Officer will be required to take charge of the Department under the direction of the County Planning Officer (who is Joint Planning Officer for East and West Suffolk), for the purposes of the survey and the development plan and the supervision of development control. He should have had wide experience in all aspects of Town and Country Planning, Development Control, and the preparation of factual surveys.

Applicants for the appointment should be either Members or Associate Members of the Town Planning Institute, and preference will be given to those possessing qualifications in either Architecture, Engineering or Surveying. The successful candidate will be required to provide a motor car, for which he will be paid a travelling allowance in accordance with the County Scale.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications in own handwriting, stating age, education, war service (if any), experience, present position and salary, together with the names of two referees, should be submitted as soon as possible.

L. G. H. MUNSEY,

Clerk of the County Council.
Shire Hall, Bury St. Edmunds. 1288
30th December, 1948.

LONDON COUNTY COUNCIL.

Required at South-East London Technical College, Lewisham, W.14, S.E.4. A HEAD OF BUILDING DEPARTMENT. Candidates should possess suitable professional qualifications in Architecture, Building or Quantity Surveying, and have had good industrial experience.

Burnham scale salary grade (II). £800-£25-£950 (plus London allowance and graduate and training additions).

Application form and full particulars (stamped addressed foolscap envelope necessary), from the Education Officer (T.1), County Hall, S.E.1, returnable by 29th January, 1949. (2297) 1219

GELLYGAER URBAN DISTRICT COUNCIL. ARCHITECT'S DEPARTMENT.

Applications are invited for the temporary appointment of ARCHITECTURAL DRAUGHTSMAN at a salary in accordance with A.P.T. Division, Grade III. Applicants must have passed the Intermediate examination of the R.I.B.A.

The appointment will be subject (1) to the provisions of the Local Government Superannuation Act, 1937; (2) to passing a medical examination; (3) to termination by one month's notice. Canvassing, either directly or indirectly, will be a disqualification.

Applications, stating all relevant details, together with names and addresses of two persons to whom reference may be made, should be received by the undersigned not later than 25th January, 1949.

D. W. C. MORGAN,

Clerk.
Council Offices, Hengoed, Glam.
22nd December, 1948. 1241

CROWN AGENTS FOR THE COLONIES.

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

STRUCTURAL DRAUGHTSMAN required by the Government of Kenya for four years in first instance. Commencing salary according to experience in the scale £670 a year, rising to £840 a year. Free passages. Outfit allowance £30. Separation allowance. Gratuity. Candidates should have had experience of commercial reinforced concrete design, and, if possible, experience of steelwork design as applied to buildings. 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/24333/3D on both letter and envelope. 1265

BOROUGH OF DOVER.

QUANTITY SURVEYING ASSISTANT.

Applications are invited for the above appointment. Salary maximum of Grade VI of the National Scales, viz., £660 per annum.

Applicants must have had considerable experience in Municipal quantity surveying and be Associate Members of the Royal Institute of Chartered Surveyors.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must reach the Borough Engineer, Maison Dieu House, Dover, by Monday, 17th January, 1949.

The Corporation is prepared to make a grant not exceeding 50 per cent. of approved expenditure in respect of household removal expenses.

JAMES A. JOHNSON,

Town Clerk.

Brook House, Dover.
23rd December, 1948. 1246

COUNTY OF LINCOLN—PARTS OF

KESTEVEN.

ADDITIONAL OFFICE ACCOMMODATION—COUNTY OFFICES, SLEAFORD.

The County Council is proposing to erect additional office accommodation at the County Offices, Sleaford, for the staff of the County Planning Department, and invite firms to indicate their willingness to submit tenders for such work if selected to do so.

Applications in connection with the above should be submitted to C. B. Metcalfe, Esq., F.R.I.B.A., County Architect, County Offices, Sleaford, not later than the 17th January, 1949. Selected firms will be supplied with forms of tender, specification, bills of quantities, and plan.

Tenders must be delivered not later than the 31st January, 1949, and should be addressed to the undersigned in plain sealed envelopes endorsed "Tender—County Offices." The envelopes must not bear any mark or name indicating the sender.

Any contract entered into shall comply with the standing Orders of the County Council, and the Council does not bind itself to accept the lowest or any tender.

J. E. BLOW,

Clerk of the County Council.

County Offices, Sleaford, Lincs.
29th December, 1948. 1287

CITY OF NOTTINGHAM—CITY ENGINEER'S DEPARTMENT.

Applications are invited for:—
SENIOR TOWN PLANNING ASSISTANTS, at salaries in the scales A.P.T. VI (£595-£660), A.P.T. VII (£635-£710), and A.P.T. VIII (£685-£760), in accordance with the qualifications and experience of the candidate.

Preference will be given to Associate Members of the Town Planning Institute who possess in addition a recognized qualification in Engineering or Architecture, and who have had practical experience on Development Plan work in large urban areas.

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

Applications are to be made on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., M.T.P.I., to whom they should be returned, together with three copies of testimonials, not later than 26th January, 1949.

Applicants should state in writing for the form for which they intend to apply.

J. E. RICHARDS,

Town Clerk.

The Guildhall, Nottingham. 1262

ESSEX EDUCATION COMMITTEE. SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

DEPARTMENT OF ARCHITECTURE AND BUILDING.

The Governors invite applications from suitably qualified persons for the permanent full-time post of SENIOR ASSISTANT IN ARCHITECTURE AND TOWN PLANNING, in the Department of Architecture and Building of the College.

Salary in accordance with the Burnham Further Education Report for Senior Assistants, i.e., £700-£25-£800 per annum, plus London allowance, and the usual training and graduate allowances.

Applications (no forms), giving full particulars of training, qualifications and experience, should be submitted to the Clerk to the Governors, at the College, within two weeks of the appearance of this advertisement.

B. E. LAWRENCE,

Chief Education Officer.
County Offices, Chelmsford. 1261

WESTMINSTER CITY COUNCIL.

HOUSING DEPARTMENT.

Applications are invited for the following permanent appointments:—

(i) **THIRD ARCHITECTURAL ASSISTANT.** Salary A.P.T., Grade III, of the National Scales, viz., £450-£15-£485 per annum. Applicants should be either Registered Architects or qualified in Building Surveying, with experience in adaptation and conversion works, preparing plans, working drawings and surveys. Experience in the preparation of estimates will be an advantage.

(ii) **JUNIOR ARCHITECTURAL ASSISTANT.** Salary A.P.T., Grade I, of the National Scales, viz., £390-£15-£435 per annum. Applicants should have passed the Intermediate examination of the R.I.B.A., and be proceeding to the Final examination. They should have had good general experience in an Architect's office.

London weighting (£10, £20 or £30 per annum, according to age) will be paid in addition to the above salaries. Age limit 45 years. Superannuation Scheme. Canvassing disqualifies.

Applications, marked "Third (or Junior) Architectural Assistant," stating full name, address, age, examination qualifications, present and past appointments, experience, whether related to any member or Chief Officer of the Council, with copies of two recent testimonials, must be received within 14 days of the appearance of this advertisement.

PARKER MORRIS,

Town Clerk.
Westminster City Hall, Charing Cross
Road, London, W.C.2. 1303

PEMBROKESHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the County Architect's Department:—

TWO ASSISTANT ARCHITECTS. Applicants should be members of the R.I.B.A. by examination and/or holding equivalent academic qualifications, with experience of contemporary architectural and/or structural design. Salary Scale Grade V, A.P. and T. Division, £520-£570 per annum, according to qualifications and experience.

ONE SENIOR QUANTITY SURVEYOR. Salary Grade VI, A.P. and T. Division, £595 p.a. to £660 p.a., consolidated. Applicants should be suitably qualified and experienced in all branches of the profession.

ONE ASSISTANT QUANTITY SURVEYOR. Salary Grade V, A.P. and T. Division, £520 p.a. to £570 p.a., consolidated. Applicants should be experienced in "working up" and settlement of accounts, and able to "take off" under supervision.

All the above appointments are superannuable and subject to a satisfactory medical examination. Canvassing will be a disqualification. Forms of application can be obtained from the undersigned, to whom they should be returned, duly completed, not later than 22nd January, 1949.

WALTER BARRETT, M.B.E., A.R.I.B.A.,

County Architect.
County Offices, Haverfordwest, Pembro.
31st December, 1948. 1312

ROYAL TECHNICAL COLLEGE, SALFORD. Principal: P. F. R. VENABLES, Ph.D., B.Sc., F.R.I.C.

Applications are invited for the appointment of Full-time **TEACHER OF GENERAL BUILDING SUBJECTS** in the Building and Civil Engineering Department. Applicants should possess a Higher National Diploma or a Higher National Certificate in Building. Teaching experience, full-time or part-time, is desirable, together with sound practical experience. A City and Guilds qualification in Builders' Quantities will be an additional recommendation.

Salary will be in accordance with the Burnham Technical Scale.

Forms of application, together with further particulars of the appointment, may be obtained from the Principal, Royal Technical College, Salford, 5, to whom they should be returned as soon as possible.

H. H. TOMSON, Clerk to the Governors.

1313

CARDIGANSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **ASSISTANT ARCHITECT.** Salary Grade A.P.T. VII (£635-£710). Suitable applicants to be eligible for regrading to A.P.T. VIII (£685-£760) after one year's service with the Authority.

(b) **ARCHITECTURAL ASSISTANT.** Salary Grade A.P.T. I (£390-£435).

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

Candidates for (a) should be Associates of the R.I.B.A., and should have recent experience in the design and construction of educational buildings.

Candidates for (b) should preferably have passed the Intermediate examination of the R.I.B.A. and have good general experience in architectural work, preferably with a Local Authority.

Applications, suitably endorsed, stating age, qualifications, experience, previous appointments, present appointment and salary, accompanied by two recent testimonials, and giving the name of one referee, should be delivered to the undersigned not later than 24th January, 1949.

IVOR EVANS,

Clerk to the Council.
County Council Offices, Aberystwyth 1310

**BOROUGH OF ROYAL LEAMINGTON SPA.
DEPARTMENT OF DIRECTOR OF HOUSING.
APPOINTMENT OF CHIEF ASSISTANT
ARCHITECT.**

LIVING ACCOMMODATION AVAILABLE.
Applications are invited for the above appointment, at a salary in accordance with Grade V of the A.P.T. Division of the National Scales (£520-£570 per annum).

The appointment will be on the unestablished staff of the Corporation, terminable by one calendar month's notice on either side, and subject to the Scheme of Conditions of Service of the National Joint Council.

Candidates must be suitably qualified and should have had a thorough training in design and construction, and be experienced in the preparation of sketch plans, working drawings and specifications, particularly in relation to flats, housing estates and buildings relating thereto. A knowledge of model making will be an advantage.

Applications, giving full particulars of experience, together with age, present position and salary, together with not more than three recent testimonials, must reach H. Fedeski, A.R.I.B.A., Dip.T.P., A.M.T.P.I., Director of Housing, 7, Regent Grove, Leamington Spa, on or before 17th January, 1949.

JAMES N. STOTHER,

Town Hall, Leamington Spa. 1248

UNIVERSITY OF DURHAM.

KING'S COLLEGE, NEWCASTLE-UPON-TYNE.

DEPARTMENT OF TOWN AND COUNTRY PLANNING.

The Council of King's College invite applications for the post of LECTURER IN TOWN AND COUNTRY PLANNING. Candidates should be Members or Associate Members of the Town Planning Institute.

The salary rises by annual increments of £25 to a maximum of £850, and the initial salary, which in any case will not be less than £500, will be fixed at a point on that scale in accordance with the qualifications and experience of the successful candidate. Duties to commence in April, 1949.

Only one copy of application will be required in the first instance, and this, together with the names of three persons to whom reference may be made, should be addressed not later than 19th February, 1949, to the undersigned, from whom further particulars may be obtained.

G. R. HANSON,

Registrar of King's College. 1243

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

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

TWO JUNIOR ARCHITECTS, Grade I. Salary £390-£435 per annum.

Applicants should have passed the Preliminary Examination of the R.I.B.A., and have had experience in general architectural work.

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

Forms of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with copies of two recent testimonials, to arrive not later than Monday, 24th January, 1949.

Canvassing, directly or indirectly, will be a disqualification.

C. ASHTON,

The Council House, Derby. 1259

BOROUGH OF WILFSDEN.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

The Council invite applications for the appointment of SECOND-CLASS ARCHITECTURAL ASSISTANT, on the Permanent Staff of the Borough Engineer and Surveyor's Department.

The salary attaching to the post will be Administrative, Professional and Technical, Grade V of the National Joint Council's Scale for the London area, namely £550 per annum, by two annual increments of £15 and one of £20 to £600 per annum.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a Local Authority.

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

Applications, giving age, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Friday, 28th January, 1949.

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

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

(Sgd.) **R. S. FORSTER,**

Town Hall, Dyne Road, Kilburn, N.W.6. 1221

26th November, 1948.

**URBAN DISTRICT OF SPENBOROUGH.
ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant in the Department of the Council's Engineer and Surveyor. The salary will be in accordance with Grade IV of the A.P.T. Division of the National Scale of Salaries, viz., £480 per annum, rising by annual increments of £15 to £525 per annum.

The appointment is permanent and subject to the terms of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Applicants should possess recognized technical qualifications, and should have had considerable Local Government experience.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, must be received by the Engineer and Surveyor, Town Hall, Cleckheaton, not later than Tuesday, 11th January, 1949.

DONALD COUPE,

Clerk of the Council. 1255

Town Hall, Cleckheaton. 22nd December, 1948.

THE UNIVERSITY OF SHEFFIELD.

Applications are invited for the appointment of a CLERK OF WORKS, to supervise the erection of the first building in a large building scheme.

Candidates must have a thorough knowledge of all building trades and of stone and reinforced concrete, and be able to carry out small surveys and measure up work. Salary £750 p.a., rising by £35 p.a. to £820 p.a.

Applications, stating age, experience and qualifications, to be addressed, not later than 15th January, 1949, to "The Bursar, The University, Sheffield, 10."

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.
Applications are invited for the under-mentioned appointments:—

SENIOR ARCHITECTURAL ASSISTANT. Grade A.P.T. VI. Salary £595-£660.

ARCHITECTURAL ASSISTANT. Grade A.P.T. IV. Salary £480-£525.

CHIEF QUANTITY SURVEYOR. Grade A.P.T. VII. Salary £635-£710.

London allowance is payable in addition to the above salaries, as follows:—

Age 16 to 20: £10 per annum.

Age 21 to 25: £20 per annum.

Age 26 and over: £30 per annum.

Salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council have in course of preparation a large and varied programme of interesting works which it is anticipated will not be affected by the proposed reductions in capital expenditure.

Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.

Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 17th January, 1949) may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Clerk. 1297

Town Hall, East Ham, E.6. December, 1948.

COUNTY OF ESSEX.

BOROUGH OF WALTHAMSTOW—COMMITTEE FOR EDUCATION.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the office of the Architect to the Committee for Education, Mr. Frank H. Heaven, A.R.I.B.A., A.R.I.C.S.:—

(a) ONE CHIEF ASSISTANT ARCHITECT, at a salary of £635, rising by increments of £25 to £710 per annum.

(b) ONE ASSISTANT ARCHITECT, at a salary of £480, rising by increments of £15 to £525 per annum.

In addition, a London weighting addition (£30 if over 25 years of age, or £20—age 21 to 25) will be payable.

The appointments will be subject to the Standing Orders of the Essex County Council from time to time in operation, to the provisions of the Local Government Superannuation Act, 1937, and to the conditions of service contained in the Scheme of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as amended from time to time and as adopted by the County Council.

Applicants should have qualified as Members of the R.I.B.A. or be in progress of qualifying for membership, or hold other similar qualifications, and for the post (a) must have had considerable experience in an Architect's office in connection with the design, construction and maintenance of Educational or similar buildings, and some administrative experience.

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

Forms of application may be obtained from and should be returned to the undersigned not later than three weeks from the publication of this notice.

E. T. POTTER, B.Sc.,

Borough Education Officer. Education Offices, Town Hall, Forest Road, E.17. 1223

January, 1949.

FESTIVAL OF BRITAIN 1951 EXHIBITION.
Vacancies now exist in London for ARCHITECTS, ARCHITECTURAL ASSISTANTS, and BUILDING SURVEYORS, and ASSISTANT SURVEYORS, at salaries ranging from £675 to £1,200 per annum, according to qualifications and experience. There is also a vacancy for a DEPUTY Head of the Design Section. Candidates for the latter post should have had considerable experience of organizing and maintaining studio service and of buying art work and allied material for exhibition and display purposes. They must have a lively interest in contemporary design, and be accustomed to working closely with architect. Apply, quoting J.486/48, The Technical and Scientific Register (K), York House, Kingsway, London, W.C.2. 15.12.48(30) 1290

The CRAWLEY DEVELOPMENT CORPORATION require an ASSISTANT ARCHITECT, on the salary scale £550-£750. The commencing salary within the range and scale will be determined by the qualification, age, and experience of the applicant. The appointment will be to serve the Corporation at Crawley. Applicants should have first-class general experience in design and construction, particularly of housing and house design, and must be fully qualified. Contributory superannuation (with the choice of entering a fund under the Local Government Superannuation Act, 1937) will be provided. Apply by letter only, stating (a) name and address, (b) age, (c) married or single, (d) present post and salary required, (e) post now applied for and salary required, (f) notice required to terminate present appointment, (g) education, (h) qualifications, (i) particulars of experience, (j) names and addresses of three persons to whom reference may be made concerning the applicant's professional ability, to the Chief Architect, Mr. A. G. Sheppard Fidler, M.A., B.Arch., A.R.I.B.A., A.M.T.P.I., Broadfield, Crawley, Sussex, by 4th February, 1949. 1290

**CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.**

Applications invited for following Temporary and Permanent Staff appointments:—

Temporary: (a) SENIOR ASSISTANT ARCHITECTS.

A.P.T., Grade VI (£595-£660).

Permanent: (b) SENIOR ASSISTANT ARCHITECTS.

A.P.T., Grade V (£520-£570).

Applicants should hold appropriate professional qualifications, have good general experience in design and construction; experience Local Authority office work an advantage.

Permanent appointments subject provisions Local Government Superannuation Acts, 1937 and 1939, and medical examination. Appointments terminable one month's notice in writing on either side.

Housing accommodation provided if necessary, at an economic rent.

Applications, indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary, and names two referees, should be delivered to J. Nelson Meredith, F.R.I.B.A., City Architect, Eagle House, Colston Avenue, Bristol, 1, not later than Saturday, 22nd January. 1285

Partnerships and Financial

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

CHARTERED ARCHITECT (Dip.Arch.).
Young, energetic and capable, seeks responsible appointment; with prospect of early partnership; full details on application. Box 1239.

Architectural Appointments Vacant

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

PROGRESSIVE appointment, with prospect of early Partnership, offered to capable and energetic qualified ARCHITECTURAL ASSISTANT (30/40) in private general practice near London (30/40) with country connections; design, surveying and levelling, and some knowledge of quantities; minimum salary £500. Box 846.

ARCHITECTURAL ASSISTANT required, with general experience; Intermediate standard or over; must be good draughtsman. Write, stating salary, experience, etc., to Fairhurst & Poppleton, F.R.I.B.A., Architects, 7, Regent Street, Barnsley. 1174

ARCHITECTURAL ASSISTANT required by East Midlands Brewery Co., currently engaged in new and reconstruction schemes for Brewery and Licensed properties; Chartered or Registered Architects, with good office experience and those previously employed in the design and maintenance of licensed premises will be given preference; superannuation scheme in operation; state age, full details of experience, salary required, and when available. Box 1195.

ARCHITECTURAL SHOPFITTING ASSISTANTS required for multiple shop company, Central London area; applicants must be competent draughtsman, able to prepare working and detail drawings from sketches, have ability to design in modern materials, and carry out surveys of existing shop premises for alterations and refitting; permanent positions, subject to satisfactory service; Friday week, and superannuation scheme; salary according to experience, £500 to £650; write Personnel Manager. Box 1196.

TWO ARCHITECTS' ASSISTANTS required immediately for City office, to work on subsidised flat schemes in London; 5-day week and profit sharing bonus in addition to salary. Apply by letter for interview, giving brief particulars of qualifications and experience: (a) To be A.R.I.B.A., with good pre-war office experience, preferably in London; salary up to £780 per annum, according to qualifications and experience. (b) To be Intermediate R.I.B.A., with some pre-war office experience; salary up to £468 per annum, according to qualifications and experience. Stewart & Hendry, F./A.A.R.I.B.A., A.M.T.P.I., 9, Fenchurch Street, E.C.3. 1208

ARCHITECTURAL ASSISTANT required for drawing office; surveys, levelling, etc. Write, giving age, experience, salary required, and when available. Lambert & Oliver, Chartered Architects, 35, South Street, Bridport, Dorset. 1207

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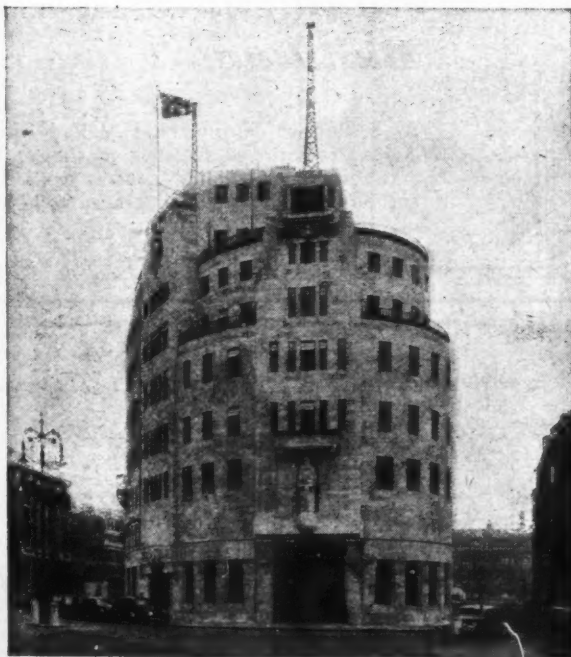
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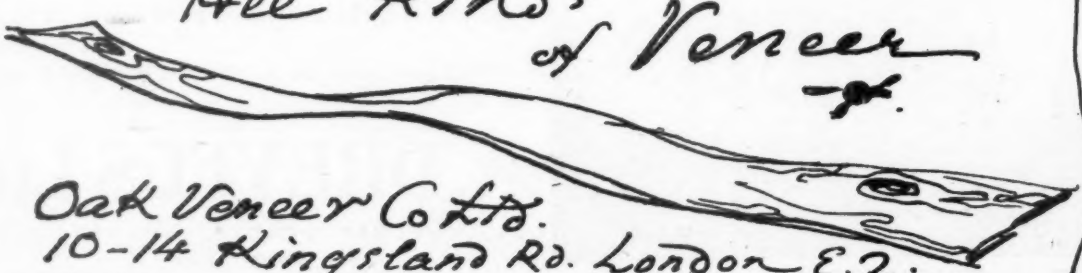
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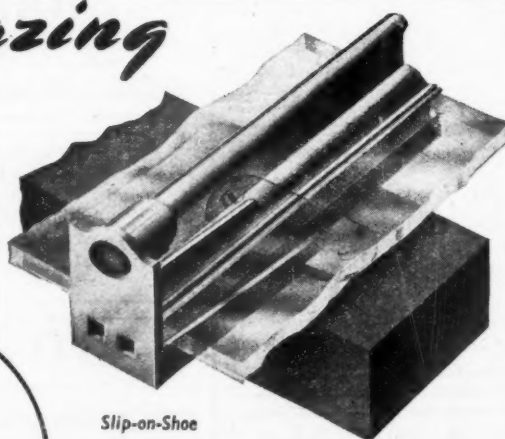
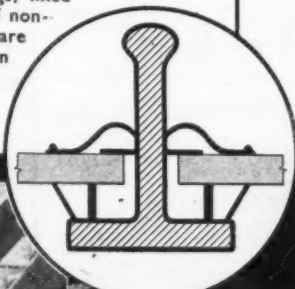
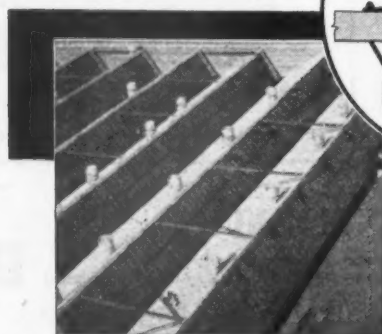
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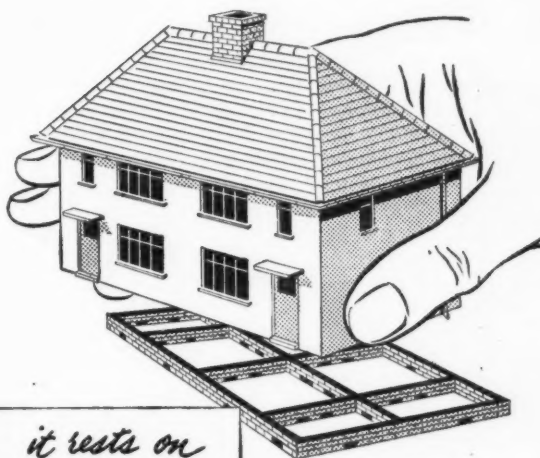


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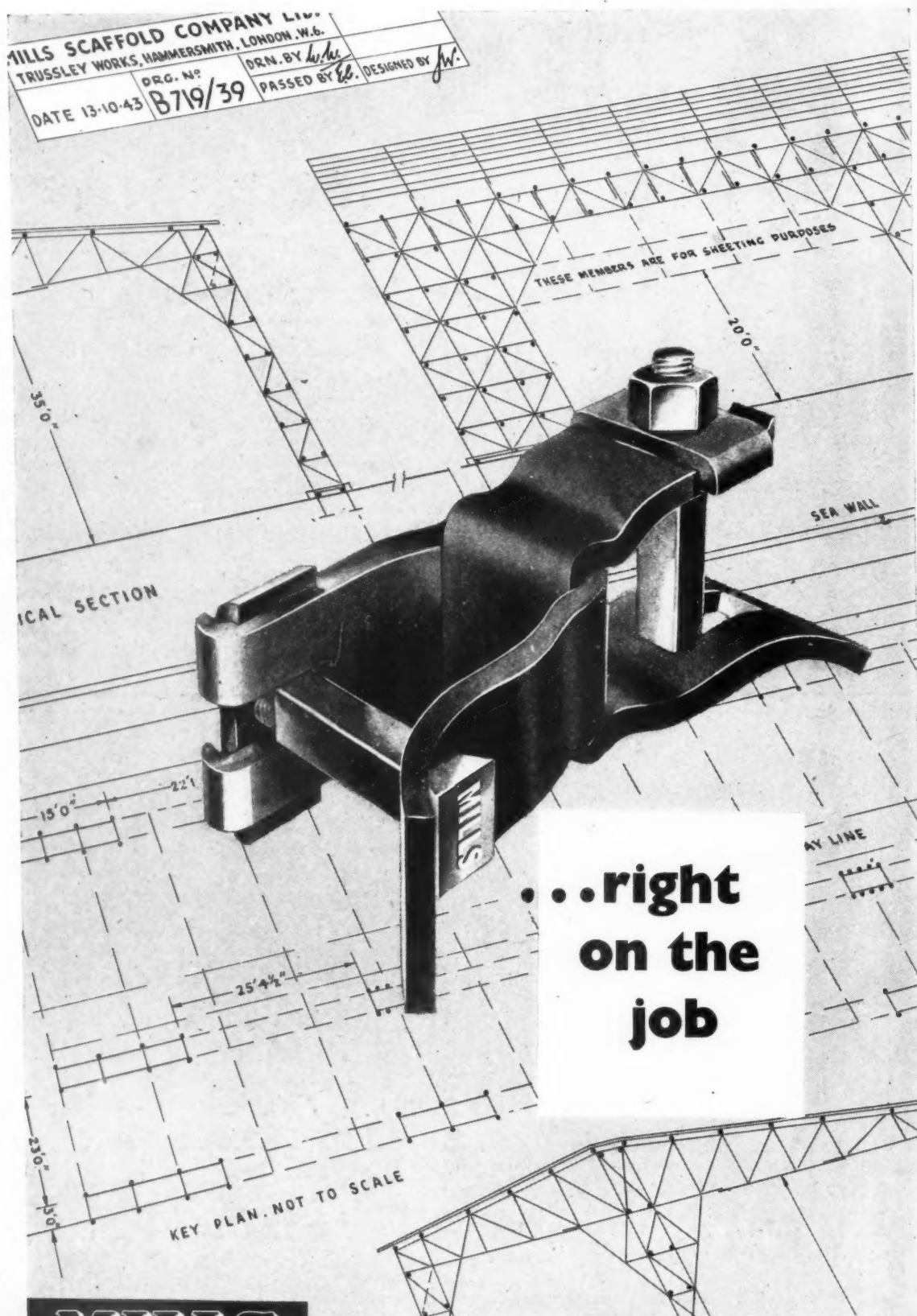
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