

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

★ 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 Ic one week, Ic 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
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
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. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
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
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.	Langham 5721/7
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
RSJ	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. 30, Cornhill, London, E.C.3.	Mansion House 3921
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 4771 (6 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

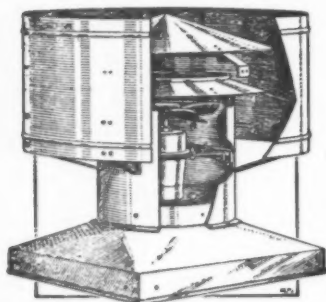
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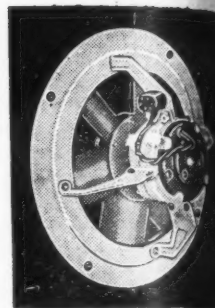
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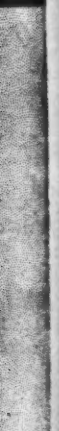
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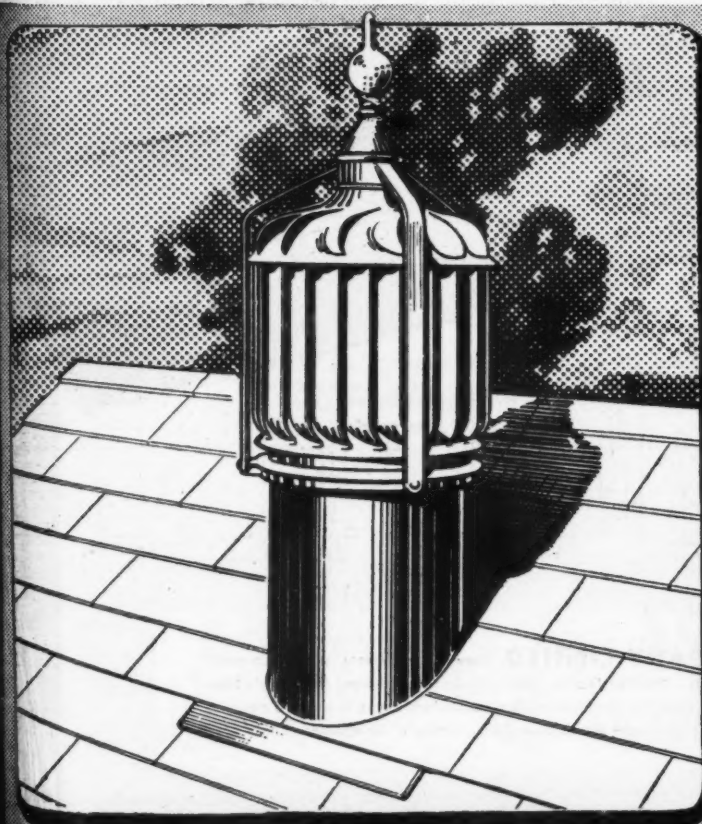
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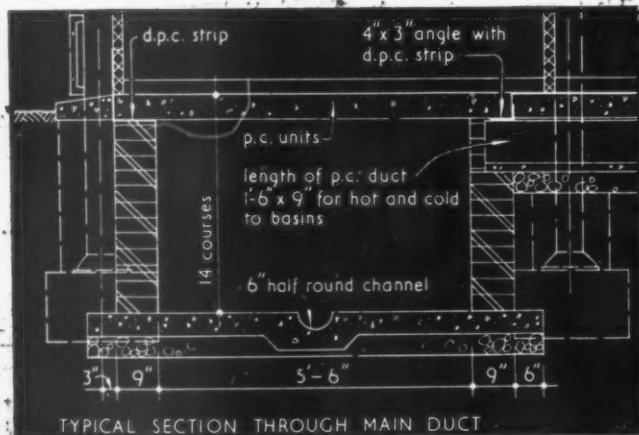
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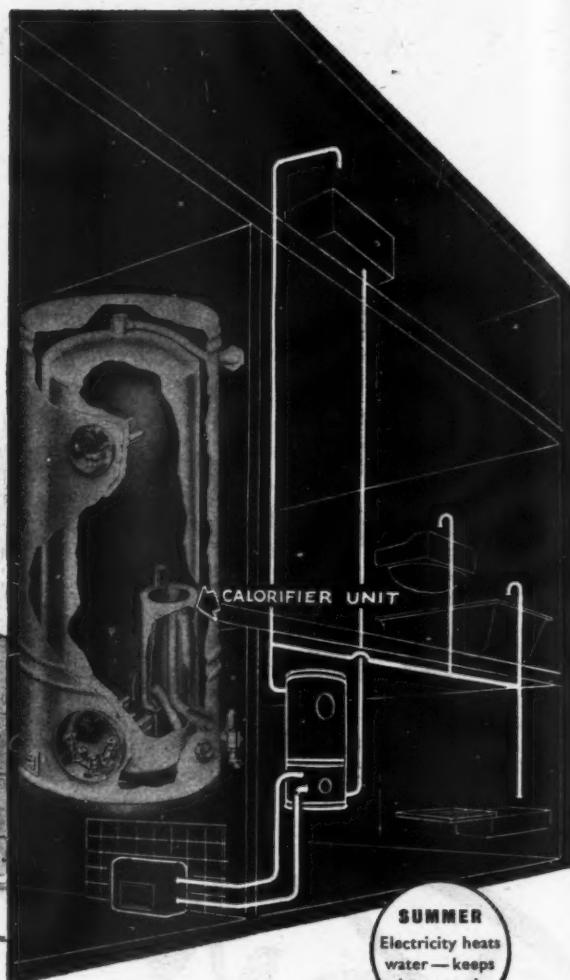
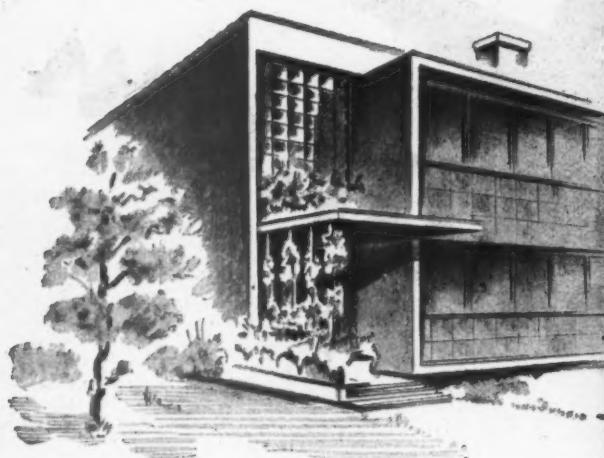
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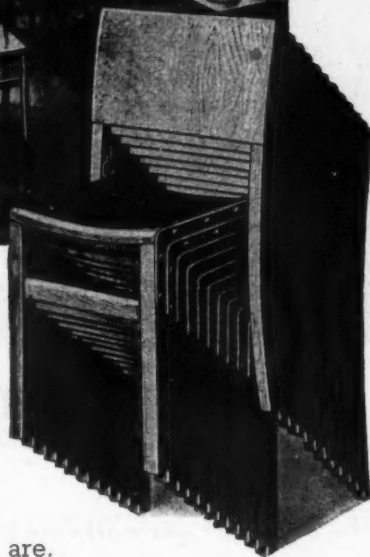
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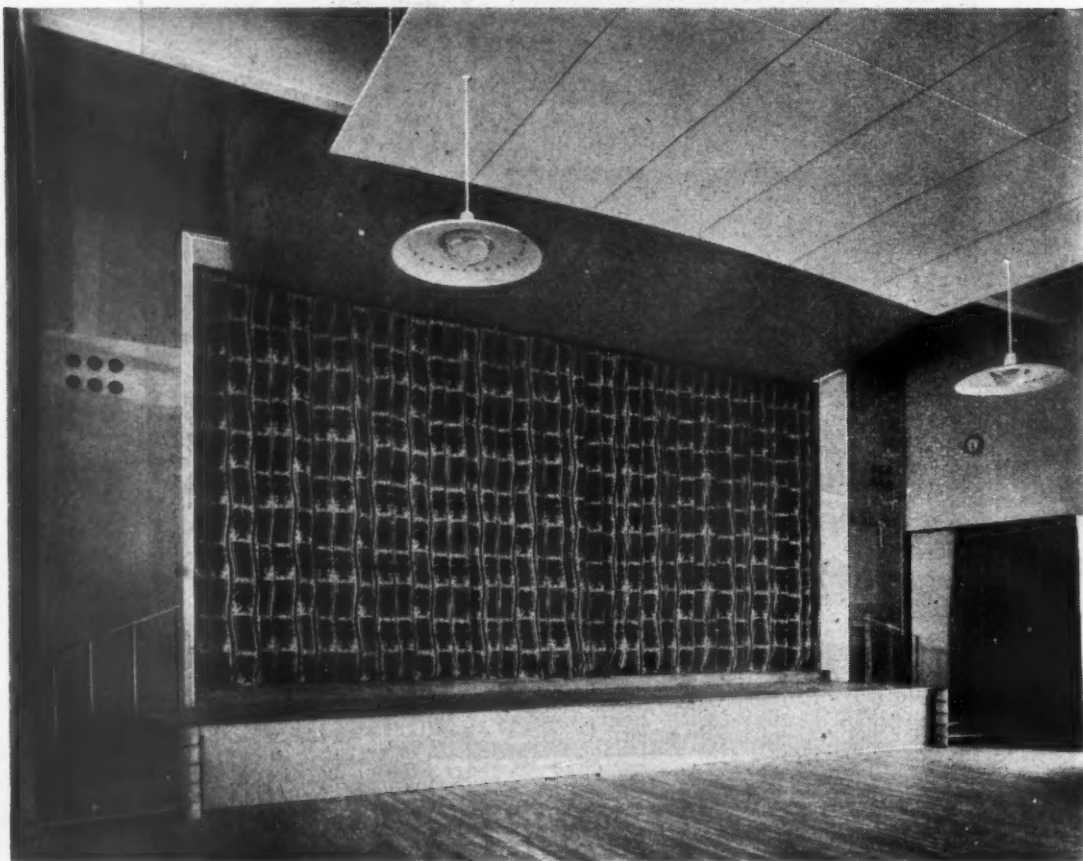
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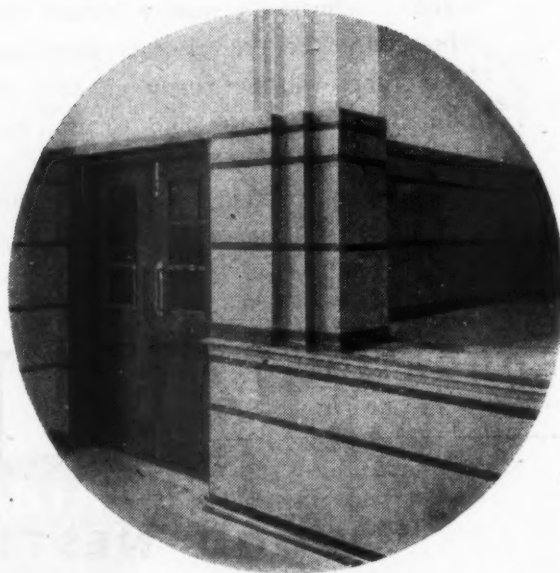
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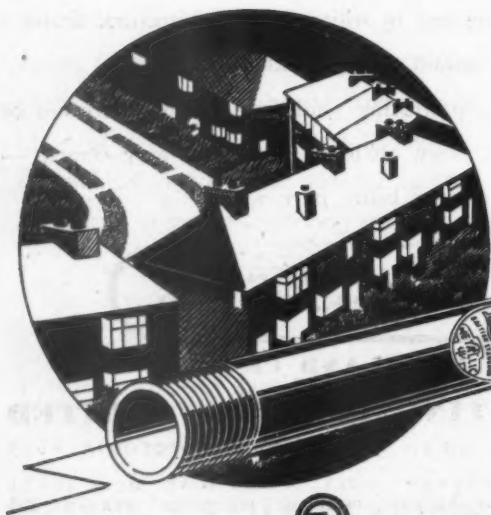



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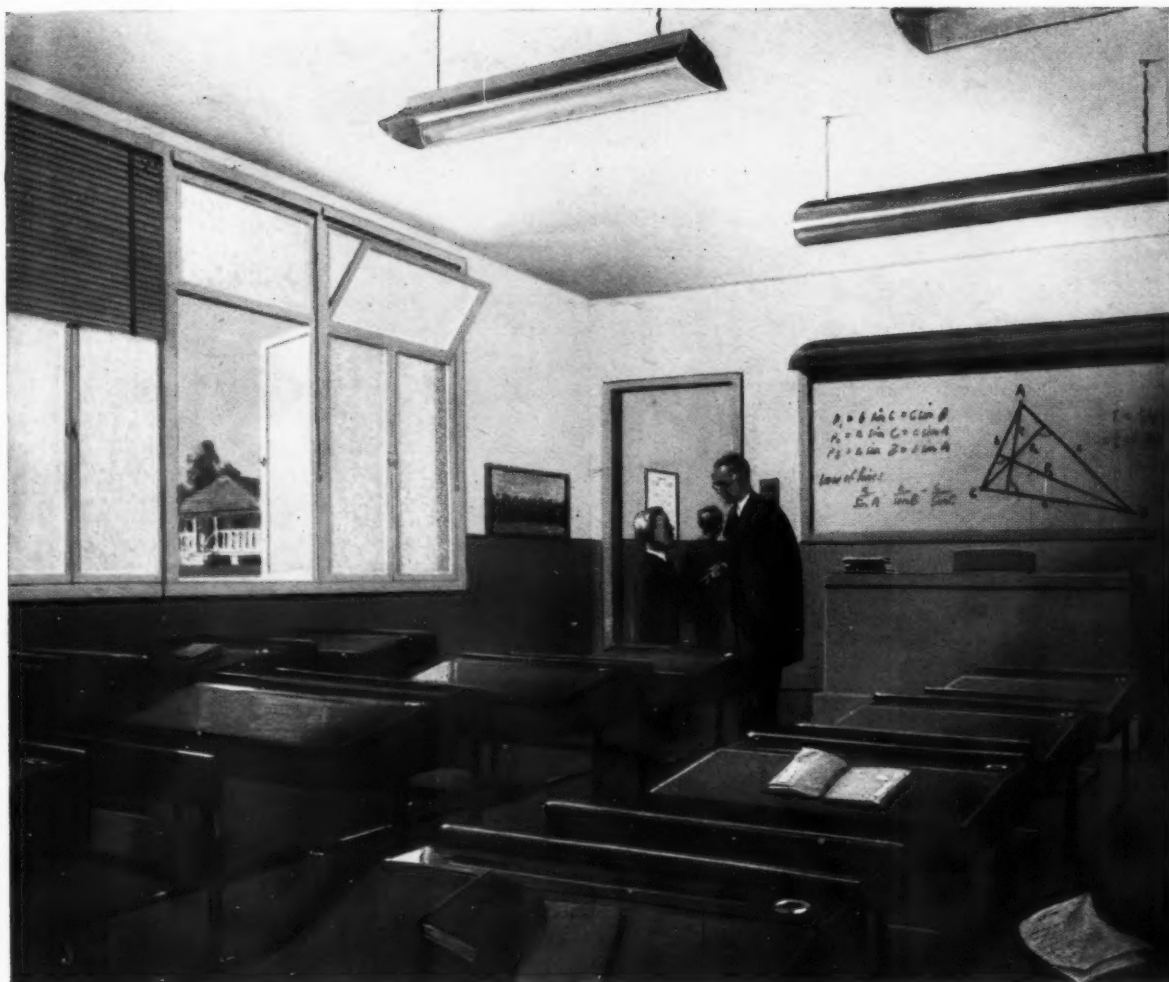
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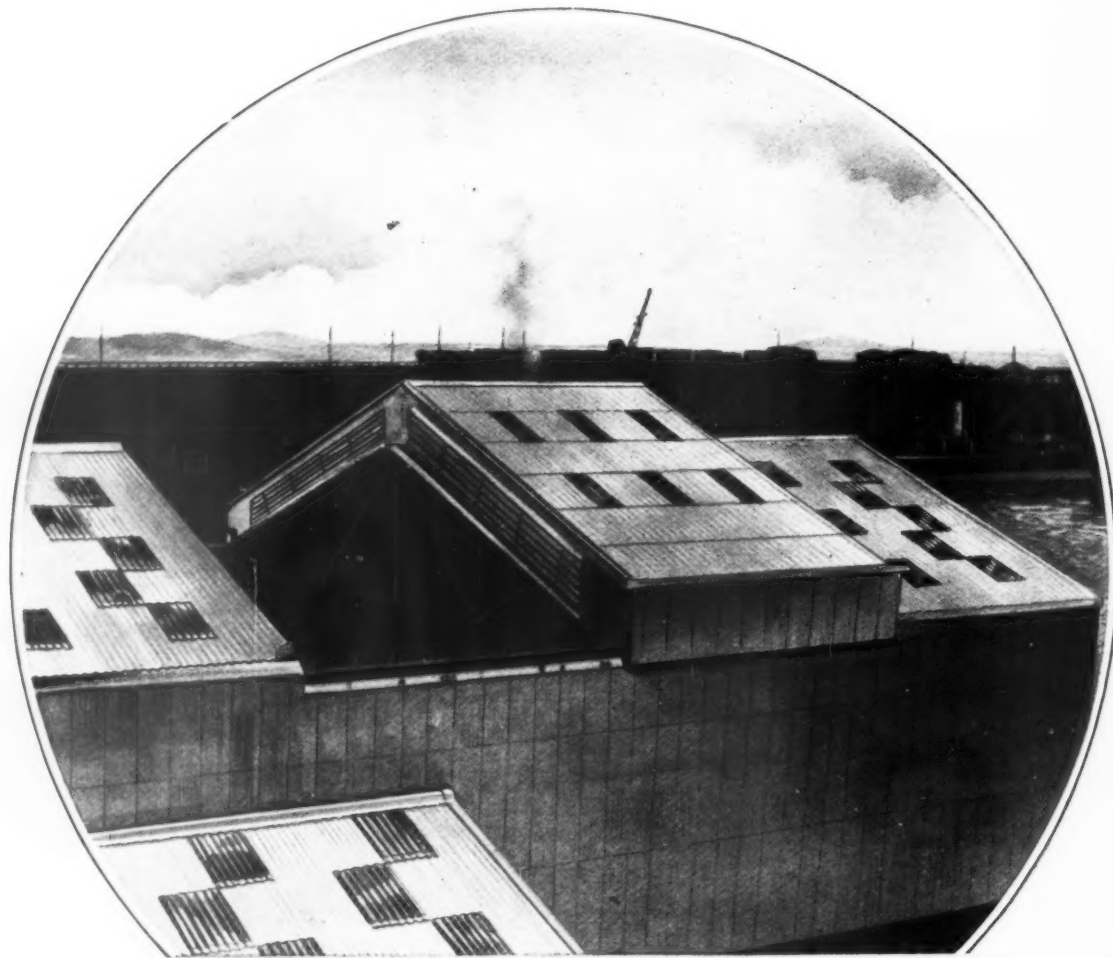
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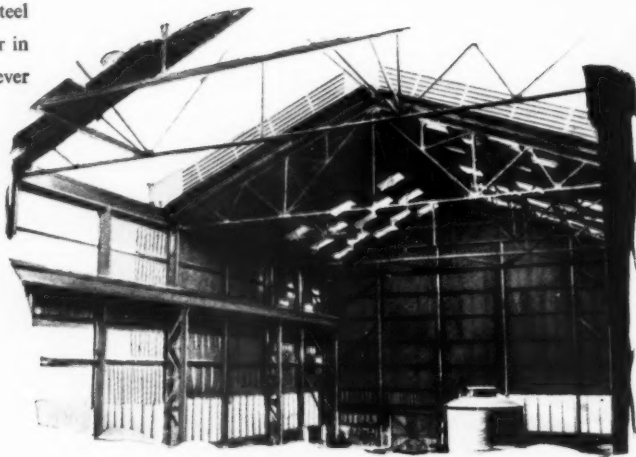
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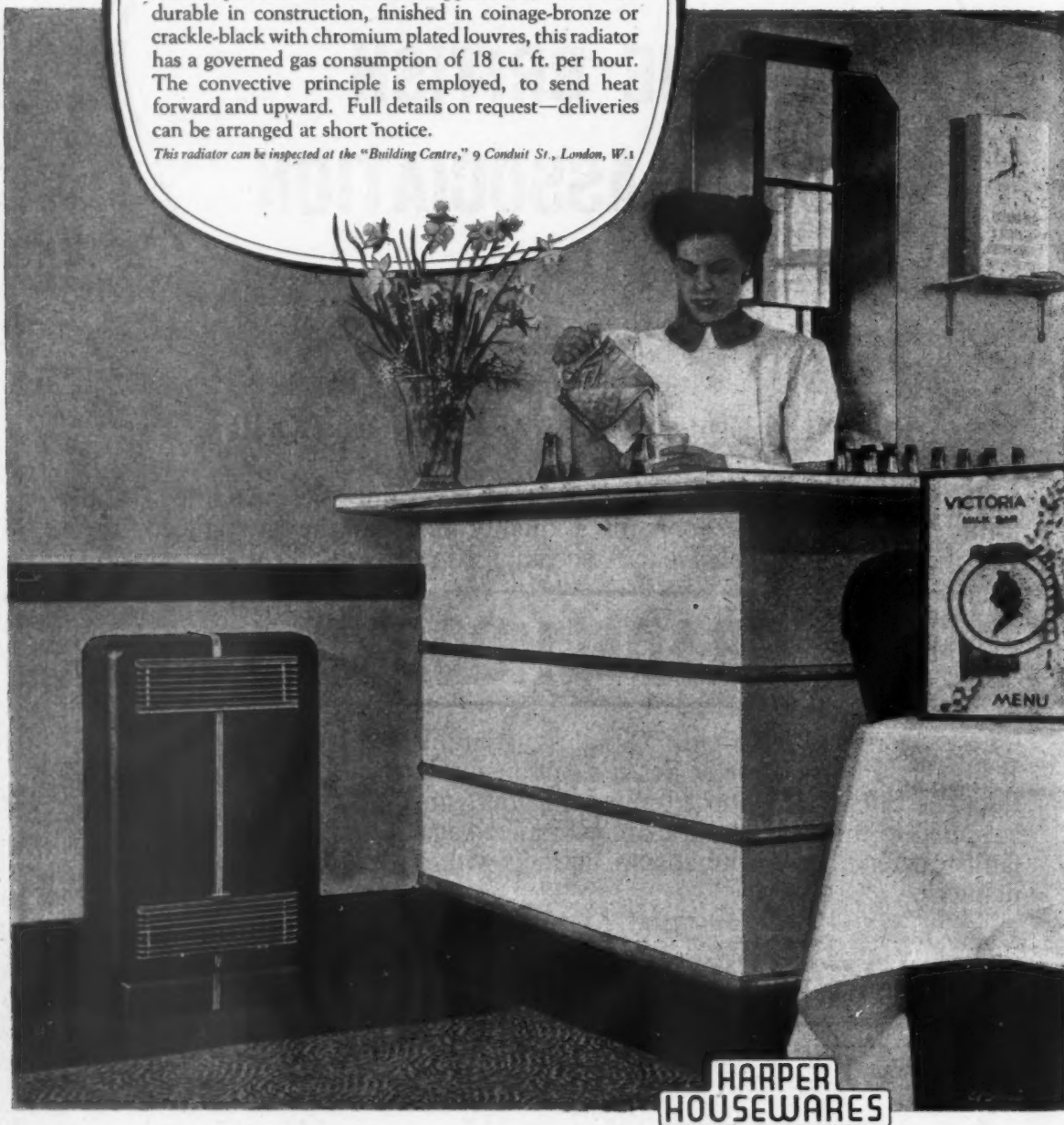
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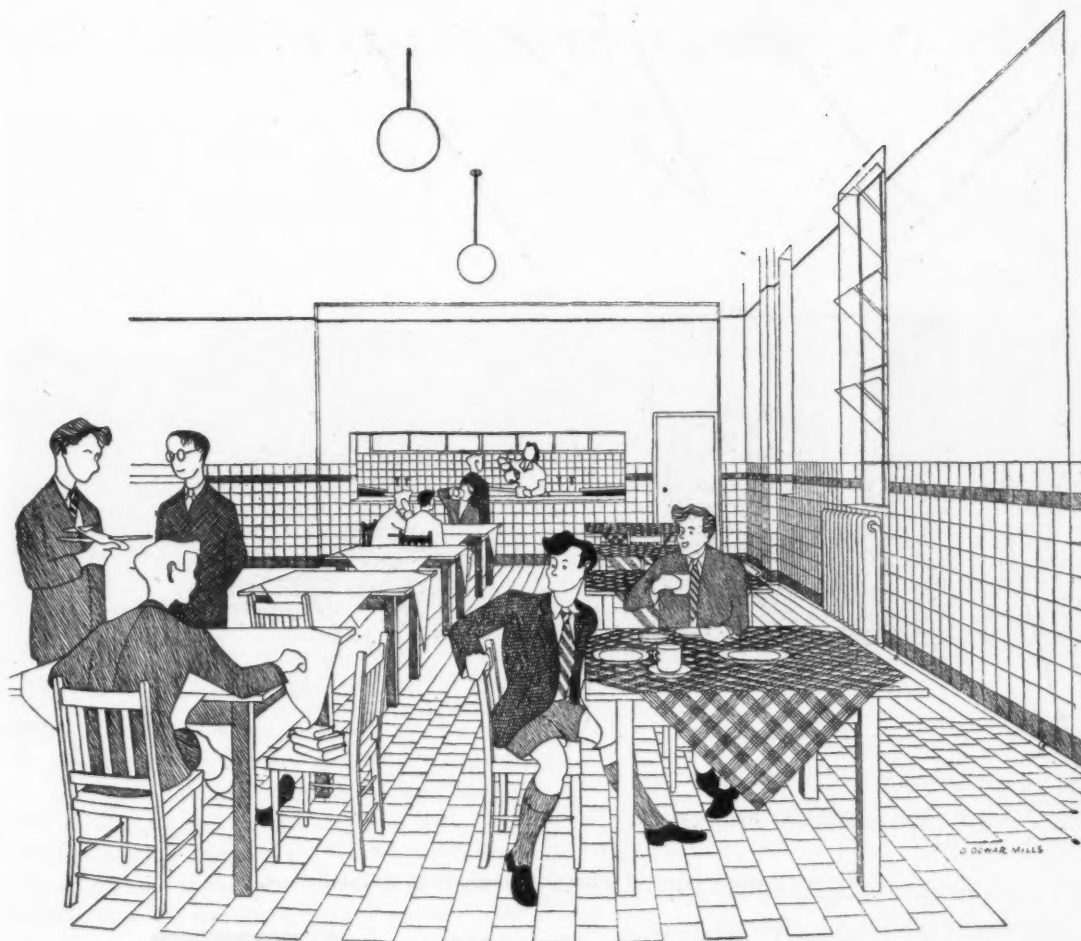


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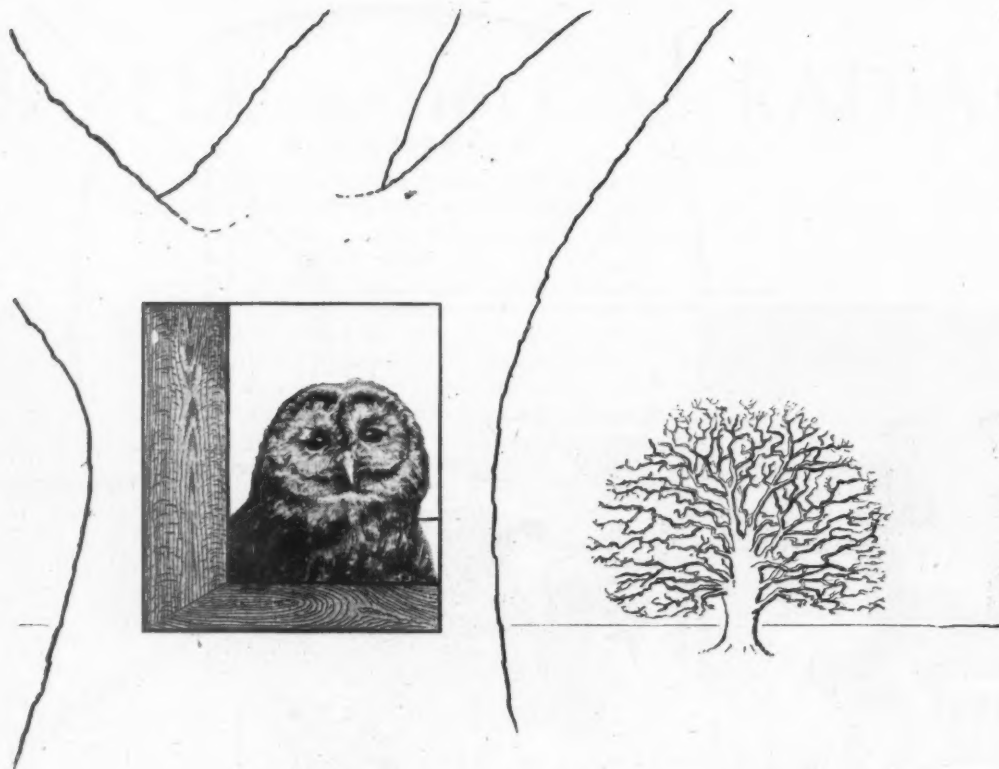
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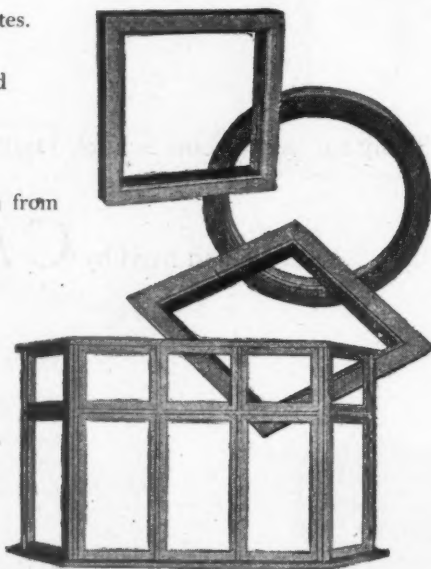


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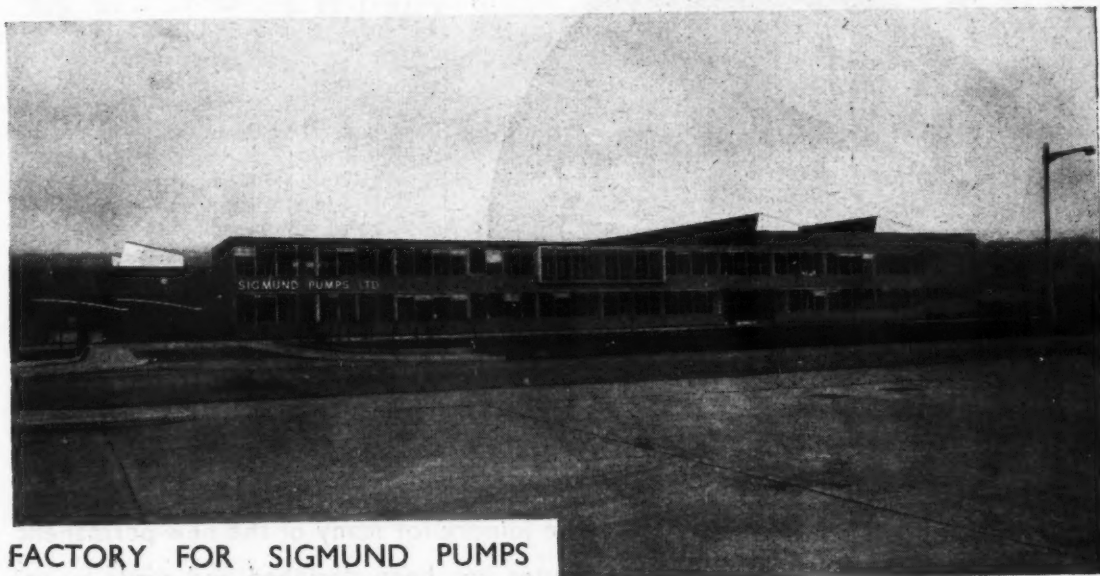
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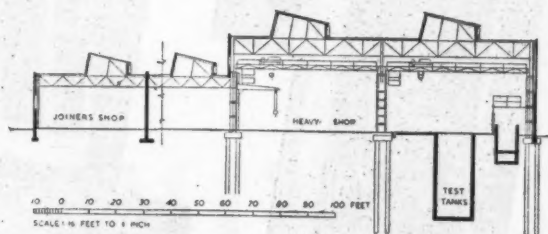
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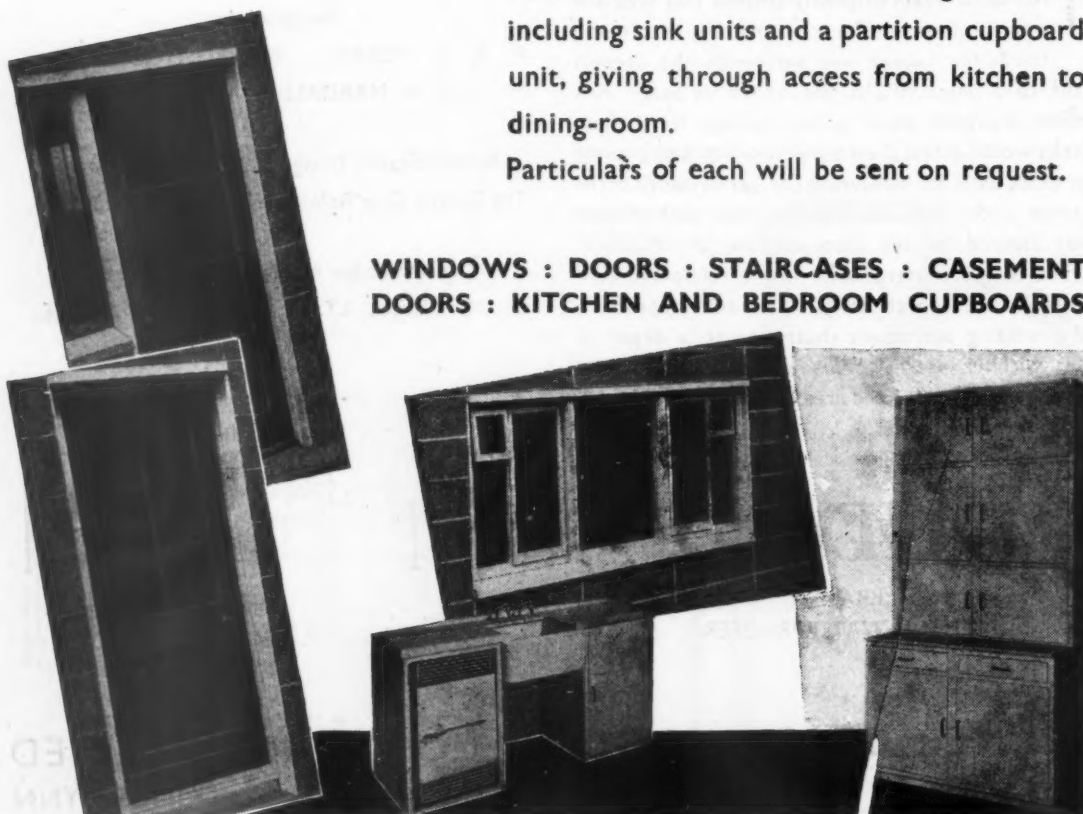


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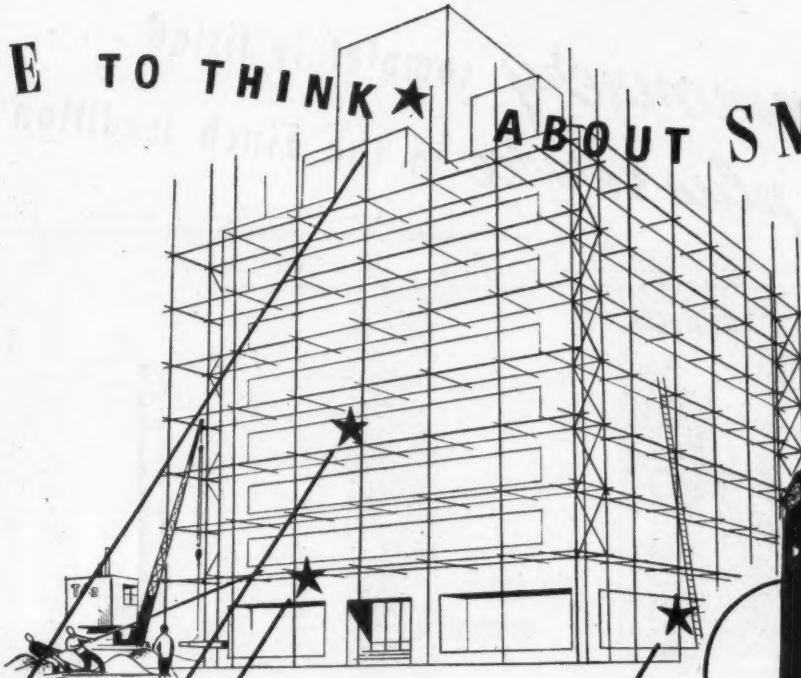
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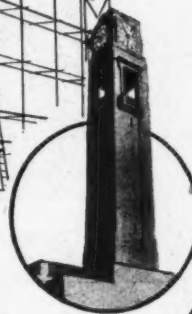


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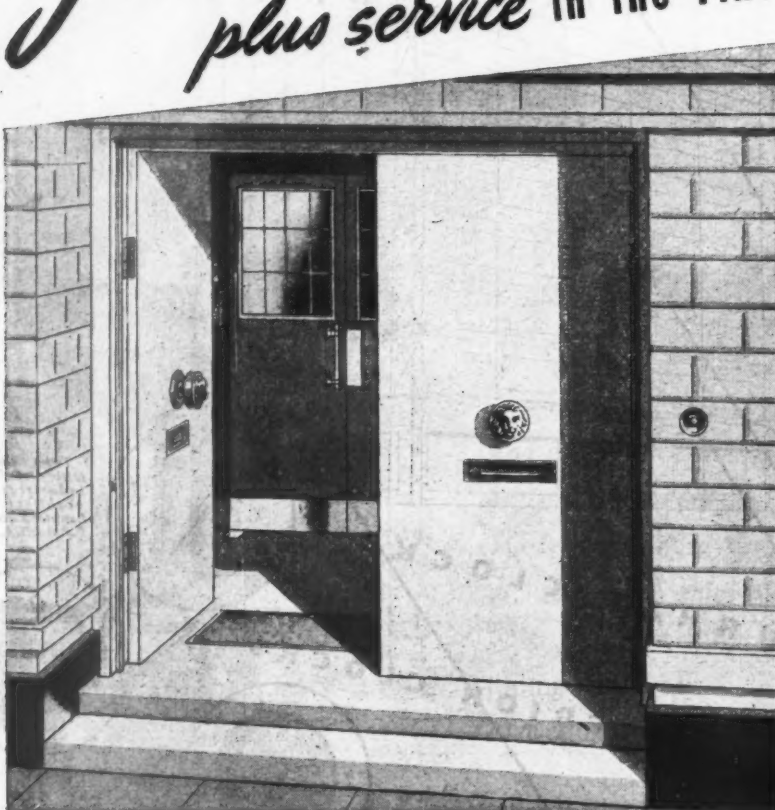
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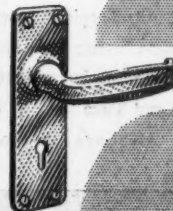
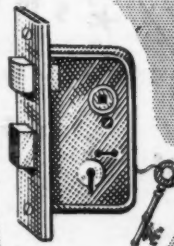
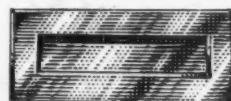
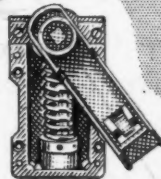
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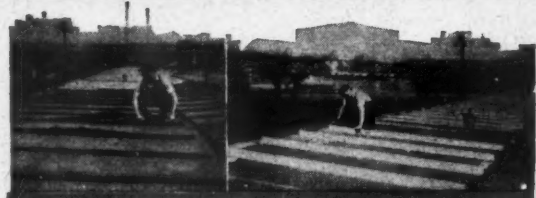
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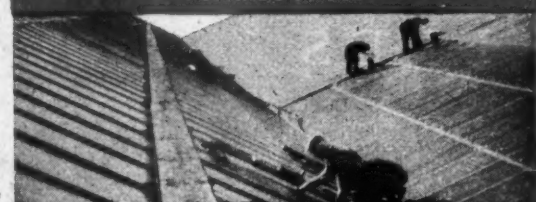
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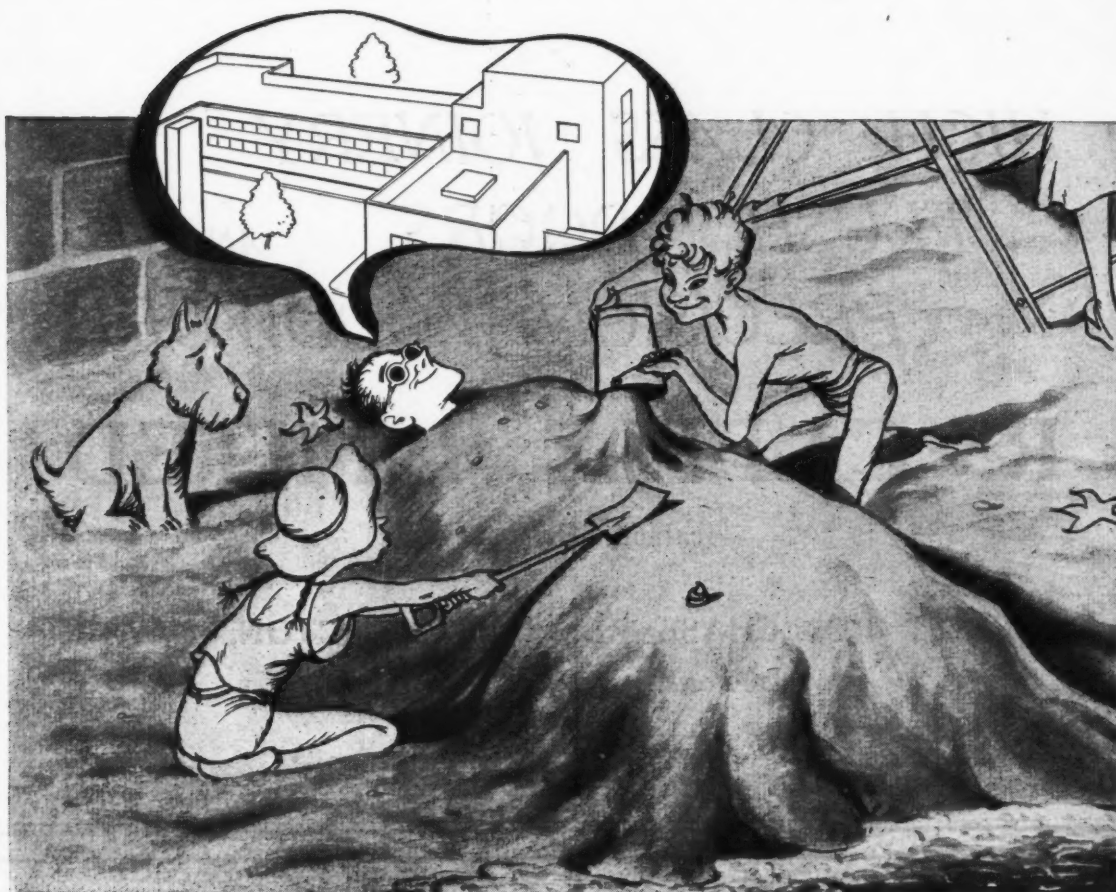


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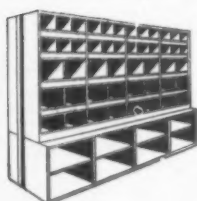
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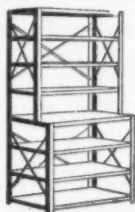
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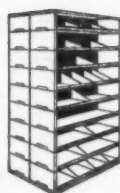
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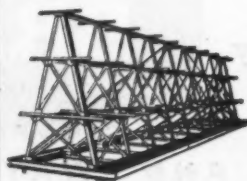
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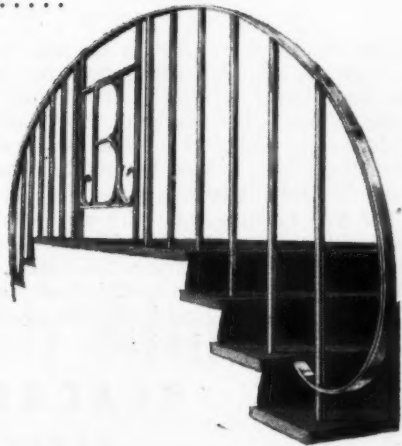
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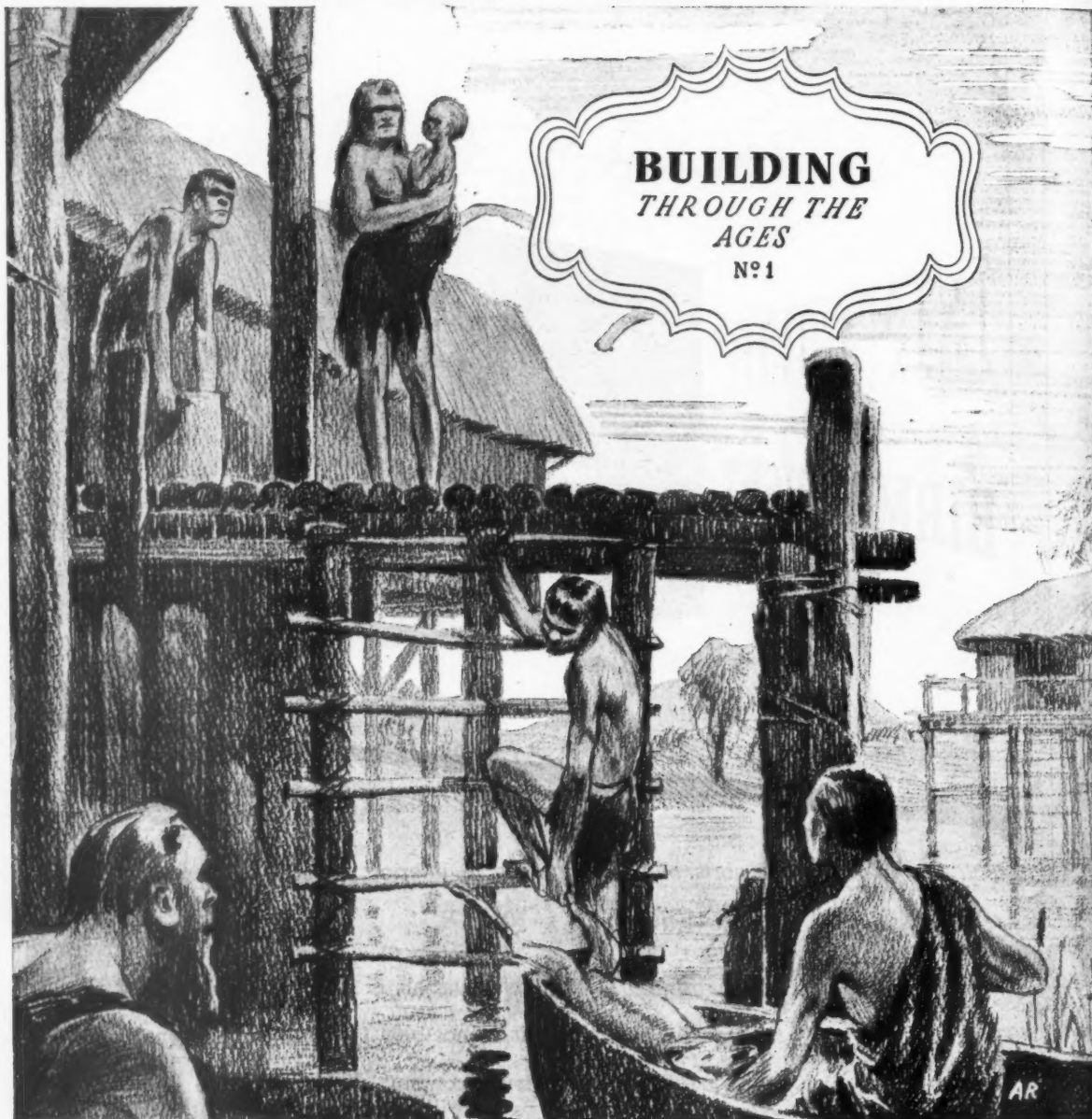
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Lake Dwellings of the Neolithic Period.

FOR thousands of years in the long and tortuous history of Man, his only shelter from the elements was some dark cave, cleft either by nature or his own crude efforts. The earliest developments which could, by any stretch of imagination, be described as "building" were simple huts of branches or other easily available timbers.

The first buildings of which any reliable data is obtainable were primitive habitations on the edge, or over the waters, of various Swiss lakes. A typical lake village, as shown, was often built some distance out in the lake, this isolation giving protection from enemies, both human and animal.

The piles which supported the huts were cut and fashioned by stone hatchets, or fire, and on this foundation the flimsy shelter was constructed. The floor platform would be fastened to the piles by wooden pins and lashings. The walls were of thin branches and wattle, made as weathertight as possible by coating with clay. The roof of straw, rushes or bark completed the structure.

Such lake dwellings were common all over Europe from 10000 B.C. down to 300 B.C. It was Man's ever-growing ingenuity in building construction which slowly brought about the transition from these crude shelters to more durable and protective edifices.

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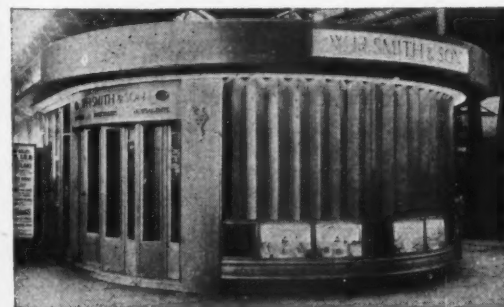
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in plan, it is constructed to give maximum possible counter and display space, and a separate "walk-in" book section allows comfortable examination of books. Counterfront



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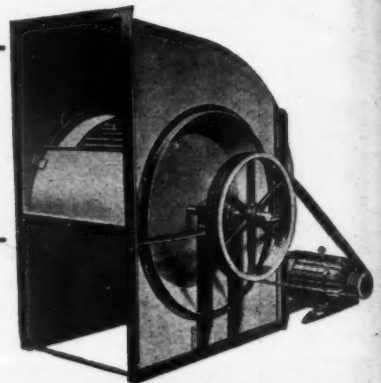
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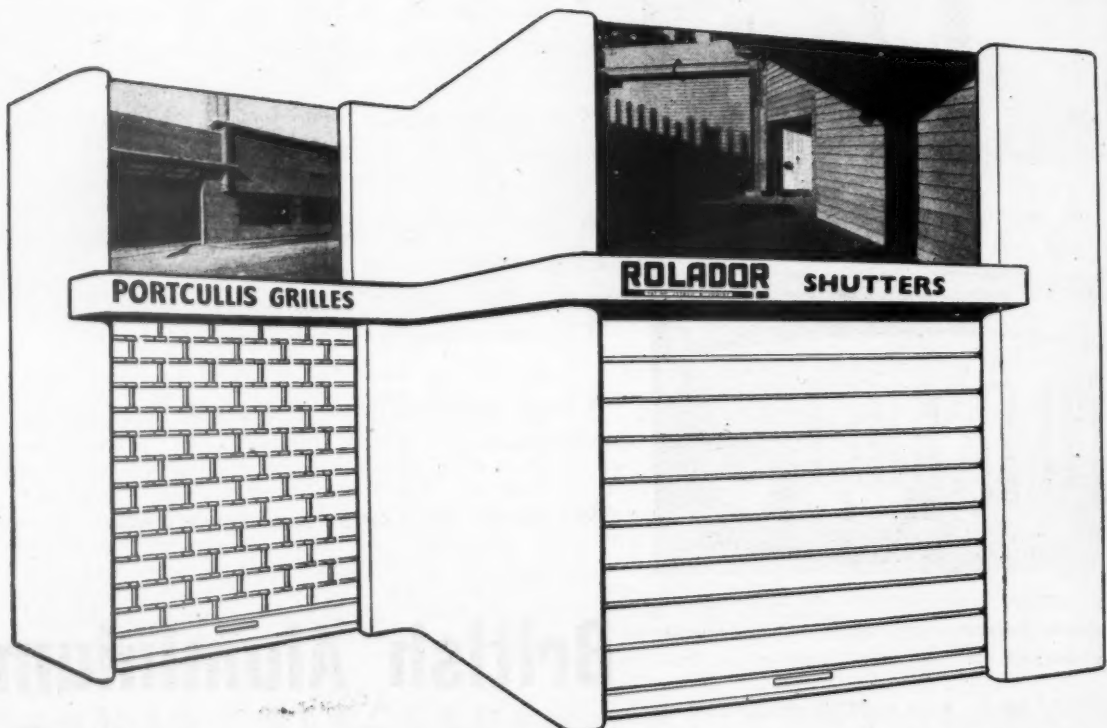
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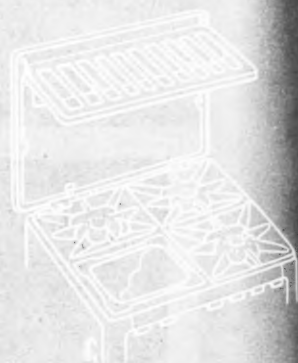
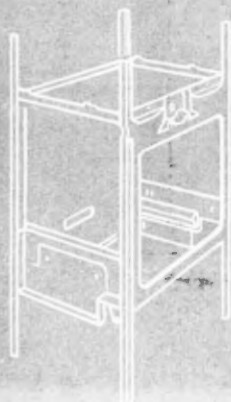
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Depth including "Ajusto" and Door Handle, Cover Top open, but not allowing fitting space			20 1/2"
Height to Hotplate			36"
Oven			
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	Width 16 1/2"		
Depth	14"	Depth	16 1/2"





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11

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DIARY FOR SEPTEMBER OCTOBER AND NOVEMBER

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.

BIRMINGHAM. S. F. Morice: *The Re-planning of Obsolete City Areas.* R. F. H. Ross: *Acquisition and Administration of Properties in a Central Redevelopment Scheme.* The Council House. (Sponsor, RSI.) Oct. 6

LONDON. *Background to Design Exhibition.* (Sponsor, CID.) Rayon Design Centre, 1, Upper Grosvenor Street, W.1. Weekdays, except Saturday, 10 a.m. to 4 p.m. Closing date not announced.

Dry Rot Exhibition. Building Centre, 9, Conduit Street, W.C.1. (Sponsor, DSIR.) UNTIL OCT. 22

The Royal Photographic Society's Exhibition. At 16, Princes Gate, S.W.7. Part 1. Pictorial, Colour and Stereoscopic. UNTIL OCT. 2

Textiles and Textures Exhibition. Murray House, Petty France, S.W.1. (Sponsor, CID.) Daily, 10 a.m. to 5 p.m.; Saturdays, 10 a.m. to 12 noon. UNTIL OCT. 21

Professor C. A. Hart. *The Influence of Modern Methods of Surveying on the Advancement of Public Works Engineering and Town Planning.* University College, Gower Street, London, W.C.1. (Chadwick Public Lectures.) 2.30 p.m. Nov. 22

Professor R. H. Bolt, Director of the Acoustics Laboratory at the Massachusetts Institute of Technology. *The Royal Institution, Albemarle Street. Room Acoustics.* A course of six lectures, with two informal meetings for the discussion of theoretical physics and one for the discussion of practical aspects of the design of concert halls, theatres and studios. Sept. 29, at 5 p.m., *Standard Practice.* Sept. 30, at 5 p.m., *Physical and Psycho-acoustic Basis.* Oct. 3, at 5 p.m., *Standing Waves.* Oct. 4, at 10.30 a.m., *Theoretical Colloquium.* At 5.30 p.m., *Wave Statistics.* October 5, at 10.30 a.m., *Theoretical Colloquium.* At 5 p.m., *Free Waves and Pulse Statistics.* October 6, at 10.30 a.m., *Architectural Discussion.* Oct. 7, at 5 p.m., *Future Practice.* Registration fee: 10s. 6d. Apply Joint Honorary Secretaries, Acoustics Group of the Physical Society, at 1, Lowther Gardens, Exhibition Road, S.W.7.

COMPETITIONS

Festival of Britain Competition. "Vertical Feature" competition. This will be the dominant vertical element in the exhibition. It may be completely abstract in conception or related to the theme of the exhibition. Height should relate to adjoining buildings. Overall area of site is 40 ft. square, excluding surrounding promenade

area which may be used for guying. Steel and timber employed should be restricted to a minimum. Assessors: Presentation Panel of the Festival of Britain. Premiums: First prize, £300; second prize, £150; third prize, £100. Further fees will be payable for preparation of detailed working drawings if prize-winning design is constructed.

(a) *Hall of Residence* and (b) *Site Layout* at Nottingham University. Promoters: the Council of the University of Nottingham. Assessor: Sir Percy Thomas. Premiums: (1) £1,000; (2) £750; (3) £500. Section (a) is a design for a hall of residence for 150 women students. The promoters will proceed with the scheme as set out by the winning competitor. Section (b) is a layout of the whole site for four halls of residence. The promoters reserve the right to adopt or modify this scheme, or not to proceed with it. Enquiries must be received by the Registrar, the University, Nottingham, by November 1, 1949. A deposit of £2 2s. must be paid by the competitor for conditions of entry. Designs must be received by March 11, 1950. More particulars will be found on page 307.

N E W S

THURSDAY, September 22, 1949
No. 2850 VOL. 110

News	301
The Home of the Brabazon ..	302
This Week's Leading Article ..	303
Astragal's Notes and Topics ..	304
Letters	305
A Railway Station Dining Room	306
Nottingham University Com- petition	307
Shop in Oxford Street, London	308
Factory at Gateshead	312

Information Sheets:

1.B36 Perspective Drawing: Shadows cast by the Sun	To face page 322
24.D1 Standard Metal Windows with Wood Surrounds (AS B.S.1285): Fixing to 11 in. cavity or Solid Brickwork ..	

Technical Section:

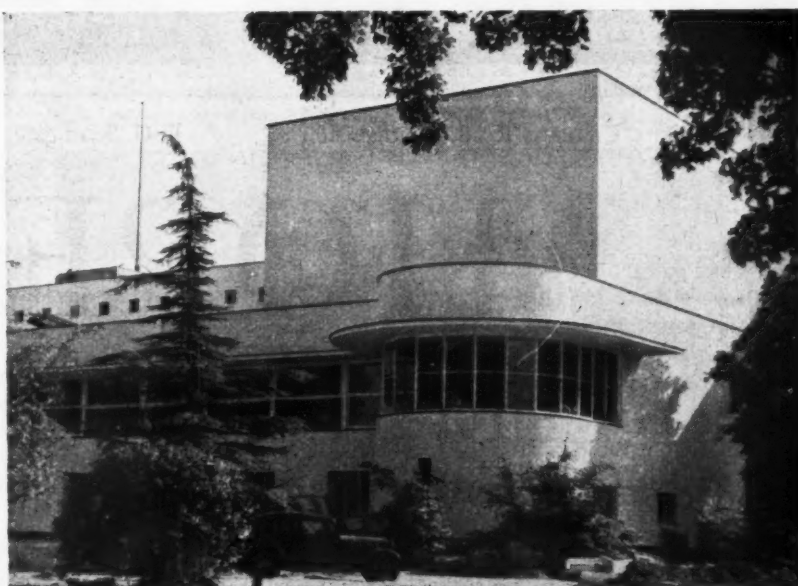
Technical Leader	323
Information Centre	324
The Industry By Brian Grant	327

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.

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



This new building, which is being constructed for the West German Government, overlooks the Rhine at Bonn. Work is being carried out for twelve or more hours a day in a seven-day week so that it may soon be completed.



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From AN ARCHITECT'S Commonplace Book

COLONIAL HOUSE PLANS. [From Colonial Williamsburg by A. Lawrence Kocher and Howard Dearstyne. (Colonial Williamsburg, Virginia).] The house types of Williamsburg are in some respects local or indigenous to Virginia. All are moderate in size, yet comfortable and commodious. Their architecture is of a practical sort, without ornament or pretense, and their plain exteriors are free from columns or other evidences of "the orders of architecture." Although altered somewhat from decade to decade, three general plan types of Williamsburg houses of the eighteenth century may be identified and described. The first may be called the "one-room-deep" plan. This has a hallway at its center and a room at either side. Tidewater Virginia had many such houses, a type rarely found in New England. This room arrangement apparently grew out of the seventeenth-century dwelling, "built of wood, yet contrived so delightfull, that your ordinary houses in England are not so handsome." A second type became popular near the middle of the eighteenth century; this was the "two-room-deep" plan, with a side hall. This one-sided plan appears, from its several examples, to have been a favorite arrangement. The front room, often designated "the parlor," was usually almost square and had a corner fire place as did also the back rooms. A third and much more pretentious type of Williamsburg house was also two rooms in depth, but with a center hall and chimneys built within the area of the plan.

★ The BRITISH BUILDERS PRODUCTIVITY TEAM has returned from an American Tour.

A statement from the team said that they had found nothing to undermine their conviction that, provided our building industry at home could be supplied with adequate materials and labour, and provided that everyone, from the top to the bottom of the industrial ladder, could be given that essential incentive in personal effort which the Americans enjoyed, the British building industry could equal the American industry in its efficiency. Our industry must strive to achieve that spirit of initiative which the Americans displayed and must not allow itself to be numbed into mere acceptance of present conditions and practices as something inevitable and enduring.

The visiting team consisted of architects, quantity surveyors, contractors, a specialist contractor and operatives. Their object was to compare American practices with British and to see if they could bring back any recommendations to help British industry to increase its efficiency and reduce its costs, thus directly assisting the export industries and the housing programme.

They found the overall cost of building in the USA at the present time to be 55 to 80 per cent. above that in this country. As the average rate of wages there was more than four times our own, it meant there must be an appreciable saving on other items. There was, however, an abundance of every kind of building material and

fittings there. This meant that the building contract could be planned down to the delivery and fixing of the last item.

The incentive given to speed and efficiency was also reflected in the output of the individual operative. In the States the average production per man-hour was 50 per cent. more than in Britain. This did not mean that the American worker increased his physical effort. All other factors—design, materials and contract organization—helped him to achieve his figure. The tempo of the work was fixed from the beginning like a machine belt in a factory, and each one who did not keep up to the line, in whatever capacity he might be engaged, was rejected.

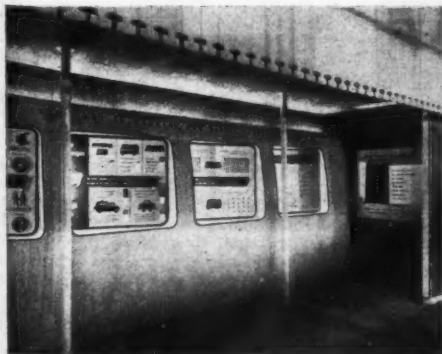
Despite the large amount of work in progress, there was a pool of unemployment in most of the centres visited in the United States, and everywhere members of the team were told that individual productivity varied over a period in accordance with the rise or fall in the number of men seeking work. Now it was definitely on the up-grade.

The team saw nothing particularly new in heavy plants or hoisting machinery. In some respects they thought Britain further advanced than America. Machinery used on the job there was to a much greater extent for cutting and shaping materials, representing a saving in labour and transportation costs. An important difference in housing was the great advances the Americans had made in the design and installation of central heating in all types of house.

The Annual CIAM SUMMER SCHOOL may be held in Britain in 1951.

In last week's JOURNAL some illustrations were given of students' work done at the international post-graduate summer school which was organized in London in August by the MARS Group on behalf of CIAM. The school, which brought about thirty students from many countries, was an experiment, but after the interest it aroused it is now expected that it will become a regular institution, taking place each year in a different country and the students of earlier years becoming the tutors in later years.

It is likely that Britain may be the host to the school for a second time in 1951, if the decision is taken to hold the 8th CIAM Congress here to coincide with the Festival of Britain. The first summer school engaged many besides members of the MARS Group, who helped to organize and entertain the students who came from abroad. The following persons and firms made the organization of the school possible by contributing to the funds:—E. C. Gregory, Charles Kearley, Liversedge Reinforced Concrete Co., London Brick Co., Marley Tile Co., H. Morris and Co., Pilkington Bros., Tentest Fibre Board, Williams and Williams, Troughton and Young, and Semtex.



The British Transport Exhibition at Charing Cross London Transport Station was designed and produced for the British Transport Commission by the Design Research Unit, London. The architect was Peter Moro. Above, a "coach" unit, carrying statistics. Right, the exterior, showing the mural designed by Gordon Bowyer.





The Home of the Brabazon

Much has appeared lately in the newspapers about the new Brabazon aircraft, but little attention has been paid to the buildings that house it, although they constitute one of the most spectacular architectural enterprises of post-war Britain. Alongside the mile-and-a-half runway at Filton, Bristol, specially constructed for the Brabazon, is the huge triple assembly hall, shown above with the tail of the aircraft visible inside. There are three folding

doors, each with a clear opening of 330 feet. Attached to the assembly hall are several other buildings, including a workers' canteen and a boiler house, as well as a block of offices for BOAC, who have recently taken over part of the buildings as the principal maintenance base for their Atlantic service. The whole range of these buildings, for which the architect is Eric Ross, will be described and fully illustrated in the JOURNAL shortly.

★
The MOE has established
an ARCHITECTS and
BUILDING BRANCH.

It has been decided to modify the organization of the MOE for handling building projects by amalgamating the present Architects branch and Buildings and Priority branch and transferring to the new branch certain work hitherto done by Schools, Further Education, Teachers and Special Services branches during the planning stages or projects. The new branch, which is under the joint control of the chief architect and the principal priority officer, is called the Architects and Building Branch. It came into operation on September 12.

The new arrangements are designed to ease and speed up the handling of building projects. The functions of the new branch will be to investigate jointly with the Inspectorate and "user branches" (i.e., Schools, Further Education, Teachers and Special Services branches) the architectural implications of new educational trends and to keep those concerned informed of the results of these investigations; to advise local education authorities on building policies and procedure and the execution of their individual building programmes; to provide for local education authorities, private architects and manufacturers a service of information and guidance on developments in design, technique and the supply of building labour and materials; to be primarily responsible for the handling of building projects after the stages of inclusion in a programme, approval in principle and, where necessary, agreement on a schedule of accommodation; and to approve proposals for the purchase of furniture and equipment, except for school meals equipment.

The territorial work of the Architects and Building branch will be handled by three building groups, each under a principal and consisting of a group of architects, a team of executive staff and the regional priority officers concerned. The names of the senior officers, other than regional priority officers, who will be responsible for each area will be sent separately to individual local education authorities.

New MACHINES, MATERIALS
and METHODS of Construction
are on view at Tunbridge Wells
during the present Building Week.

The achievements of the building industry and the new machines, methods and materials developed during recent years are the main features of Building Week, which is now being held in the south-eastern counties. The events, centred on Tunbridge Wells, are sponsored by the MOW in association with other Government departments and all branches of the building industry.

The main feature this week is the exhibition in the Assembly Hall, Tunbridge Wells, entitled "Building Today." Contributors to this exhibition include the industry, professional institutions, building materials producers, Government departments, and apprentices and students of technical schools and colleges in the south-eastern counties.

Modern aids to speedier building are included in the display, "Machines for the Modern Builder." Among the many new machines are some not seen before in this country.

The third exhibition, "Prestressed Concrete," is an up-to-date edition of one already shown to builders, architects and civil engineers in London, Birmingham, Leeds and Norwich. A Brick and Tile Exhibition, presented by the South-Eastern Brick and Tile Federation, shows more than 140 bricks and tiles of all colours and for all building purposes.

AMERICAN VISIT

ROUGHLY two months ago a team representing the Building Industry left for America under the auspices of the Anglo-American Council on Productivity. Representing the building industry as a whole, the team very properly included architects (Mr. Michael Waterhouse and Mr. Robert Matthew), quantity surveyors, builders and contractors, specialist sub-contractors, and several representatives of the operatives' organizations.

Returning after a high-speed but apparently illuminating tour, the team has prepared a joint statement as a preliminary to its considered report, which is soon to be produced.

First and foremost this statement is illuminating in that it disposes of the old *canard* that American building is cheap. For many years it has been said, in this country, that American costs are about the same as ours per foot cube of comparable buildings, and that high American wage rates and material prices therefore show that British methods must automatically be lacking in efficiency. The team's quantity surveyors, however, have analysed the costs of a large number of separate contracts and have found that "the overall cost of building in the United States at the present time is approximately 55 per cent. to 80 per cent. above that in this country."

Since the average wage rate in the US is about four times our own it follows that there must be appreciable savings on other items. Chief among these savings, the team finds, is that, "whereas we are yet handicapped and frustrated by shortages of various essential materials, whether they be still subject to official control or not, there is in the US an abundance of every kind of building material and fitting . . . this means that a building contract can be planned down to the delivery and fixing of the last item: everyone connected with the job knows what the target is, and knows, moreover, that with good organization and hard work from all, it can and must be achieved."

The incentive thus given to speed and efficiency is therefore reflected in the energies of the individual worker, whose output is estimated as 50 per cent. more per man hour than in this country. This does not mean that the individual operative works 50 per cent. faster or puts into his work that amount of increased physical effort, but that all the other factors—design, material supplies and contract organization—help him to work more effectively than his British counterpart. "We believe that he puts everything he can into his work without holding back. The tempo of the job is fixed from the start . . . and each one who does not keep up . . . is rejected." The incentive is the high rate of wages of the building trade craftsman, one of the highest skilled rates in American industry, from which he is able to maintain a high standard of living. Since unemployment benefits are not paid nationally, and in general represent a far smaller percentage of the weekly wage than in this country, the operative will generally make great efforts to keep his job. In most centres there seems to be a

pool of unemployed building labour, and individual productivity seems to rise almost in direct proportion to the numbers seeking work—a regrettable state of affairs.

The team lays some stress on the outlook of the operative, as the same considerations apply in the other sections of the industry. The architect "must be, and is, in general, a completely efficient business machine, experienced in the same hard school as the contractor." The contractor and the sub-contractor have to live in a world where competition is keen both in cost and in time. Briefly, with efficiency and hard work the rewards are considerable, but there are corresponding risks in failure.

The broad conclusion reached is that, with adequate material and labour supplies, and with proper incentives to personal effort from the top to the bottom of the industry, the British builder should be able to equal the American in efficiency. The final report promises full consideration of the many technical problems and should make extremely interesting reading, as it should be an authoritative and balanced pronouncement on a problem which has so far been considered only piecemeal. The sooner it is published the better.



The Architects' Journal

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

Phone: Whitehall 0611

N O T E S

&

T O P I C S

NO NAMES, NO BACK-SLAPPING OR
-BITING

The virtual monopoly held in building work by local authorities and state organs has resulted in the architect becoming a more familiar figure to a large number of people, who, in the old days, would have remained ignorant of his function and importance. Nonetheless, there does not seem to be a corresponding willingness to acknowledge the responsible

architect's name. He may be referred to as "the architect" or not at all. I have noticed some blatant cases of non-acknowledgment lately, one in the booklet on the new liner *Rangitoto*, for which the interior work was done by Howard Robertson. The booklet quite rightly acknowledges the decorative effects of painters and other artists, but the architect remains anonymous.

*

Another case is even more remarkable; in the recent Report accompanying the Development Plan of Hemel Hempstead New Town, there is no reference to the original planning consultant, who, as JOURNAL readers will remember, was G. A. Jellicoe. It may be that the consultant's ideas are no longer acceptable to the progressively blinkered MOTCP, or there may have been squabbles in the Corporation, or it may have simply been obtuseness, but the scheme now published has a close relation to Mr. Jellicoe's proposals, and in any case the public, or anyhow, architects, will want to know what has happened to the very original Master Plan. In the Report, one looks in vain for any reference to the Master Plan and its author. This is not good enough. Perhaps this age is to be one of anonymity, but it seems to be mere good manners, if nothing more, to acknowledge the work of others.

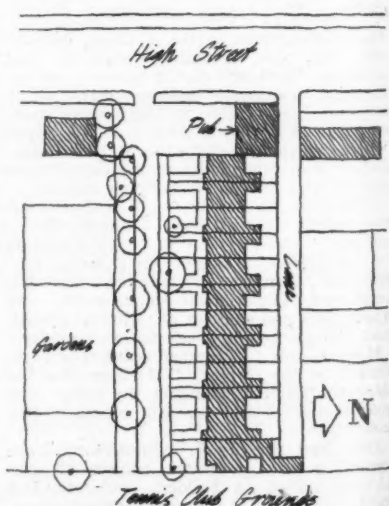
Lastly, it would be a reasonable gesture at exhibitions to give the names of architects who have designed stands, either by a label itself, or in the catalogue. The Glasgow Exhibition, featured in last week's JOURNAL, provides the latest example of this omission. I notice the Design Research Unit has a neatly designed placard, with a formidable list of designers on it, placed quietly but prominently beside the exit to the British Transport Exhibition at Charing Cross Station. This idea might well be copied.

CHINESE STAND

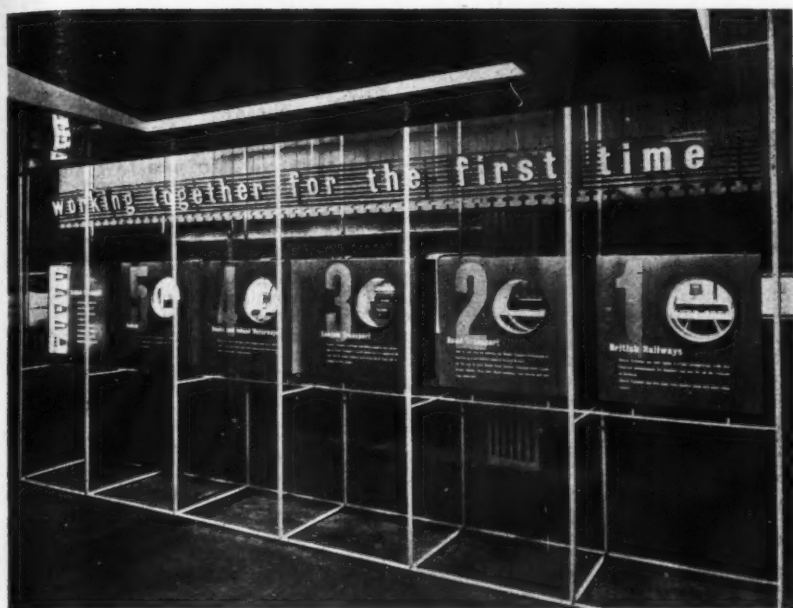
While on the subject of this particular exhibition, why do designers number exhibits backwards, from right to left, when the lettering on each has to be read from left to right—unless it happens to be in Chinese. (See illustration opposite.) It is a small point, but it can be very irritating.

TIP FROM THE 'NINETIES

Two years ago I stayed with a family whose house faced on to a curving road which carried a good deal of traffic. The family contained an active child of five who had friends in several neighbouring houses, and I heard much of the faults of the road. It was impossible to prevent the children from nipping across it. Cars used to come round the curve at a great speed, and a garage nearby used the road for testing repaired cars (driven by



An example of a Victorian housing layout from which a lesson can still be learnt. See Astragal's comment above.



Part of the British Transport Exhibition which recently opened at Charing Cross Underground Station. This feature was designed by Robin Day. See Astragal's comment. Further illustrations on page 301.

apprentices who apparently hoped to become racing drivers).

This year I revisited the same family, who now live in a house in a cul-de-sac—a speculative development of about 1890. The family's praises of the surroundings of their new house were so high that I sketched the layout and it is reproduced opposite. The eight or nine mobile children in the terrace never want to go past the gates and most motorists leave their cars outside. The children cycle up and down the cul-de-sac, play in the planted strip or in each other's gardens, and can be rounded up at lunchtime without difficulty. The mother of the family said it was difficult to express the relief which the move had given to her.

At long last layouts for private enterprise estates are receiving planning approval or are being discussed with planning officers in most towns, and I am told that developers and their estate agents will rarely or never accept terrace houses or screen walls or closes or cul-de-sacs or indeed anything except detached houses on ½-acre plots on a 40 ft. road. I believe they are wrong in their estimate of what the public will like.

PALE REFLECTION

I had intended to leave the Kelvin Grove open-air sculpture exhibition without comment, but the photograph of it which appeared in the JOURNAL last week recalled the poor showing of this exhibition in comparison with the praiseworthy LCC effort last year. As readers will have noticed in the illustration, the various pieces of sculpture are sited very inadequately. While admiring Glaswegian enterprise in attempting to show sculpture in a proper habitat, I am afraid the authorities will have to improve upon this effort if they are really trying to stimulate appreciation of sculpture and its proper siting.

EASTERN ELECTRIC

Next week the Ministry of Transport is to open the newly electrified BR's eastern extension running from Liverpool Street to Shenfield. Not having seen the inside of the new rolling stock, I cannot tell you what it is like, but I have seen the outsides in the yards at Ilford. They seem straightforward but unexciting, and are painted in a rather darker green than the standard Southern colour, while the current-collectors are the usual parallelogram affairs on top of the coaches. Transformer buildings and subsidiaries are simple, in the 1930

Underground style; in fact, by present-day standards, the whole job strikes me as competent but uninspired. But that, of course, is on looks. If I were a Gidea Park commuter I should be overjoyed, for nothing can be worse than the present tatty old boxes full to bursting on almost every trip.

And now a word of warning. Overhead wires may not matter much in the east London suburbs, but a strong fight must be made if the technicians want to use overhead wires for main line electrification in future, instead of the third rail used on the Southern.

ASTRAGAL

LETTERS

F. J. Meekins, F.I.A.S.

G. B. J. Athoe

Grey Wornum, F.R.I.B.A.

James M. Knowles

Architects' Registration Act, 1938

SIR,—I have read the letters you published in the September 8 issue of the ARCHITECTS' JOURNAL, and I note the remarks by Mr. H. Meyer and Mr. Sydney Redfern, L.I.B., regarding the term "Architect" applied to an unregistered man in articles of agreement. By reference to the RIBA Form of Contract, the professional adviser is first referred to as "his Architect," and later on reference is made to the term "Architect, etc., shall mean."

It would seem that to contravene the requirements of the Architects' Registration Act, 1938, a person not being a registered architect must personally describe himself as an architect, and for that matter claim that distinction, and I feel that in court of law such a point would have to be proved that some irregular act had been committed and some suffering had been caused to the learned gentleman that this Act seems to protect.

Further, I would point out that the architect, not being a party to the contract, does not sign the agreement, and on that point alone he would be able to prove that he did not attempt or had actually described himself as an architect. In short, the point of being called an architect in a contract agreement is merely the act of a layman or otherwise, as the case may be, signing a contract wherein a person chooses to describe his professional adviser as an architect.

F. J. MEEKINS

London.

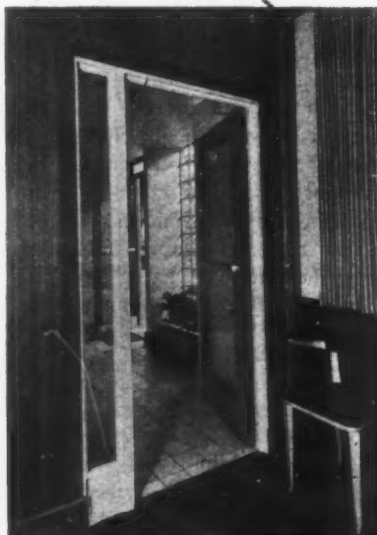
SIR,—Your correspondent, Mr. H. Meyer, has posed a very knotty problem for the

A RAILWAY STATION DINING ROOM



This remodelling of premises on Leicester (London Road) Station to form a dining room was carried out by W. H. Hamlyn and H. Wyatt, architects to the British Railways, London Midland Region, for the Hotels Executive. Above: the dining room, which was opened last year. It has two end walls faced with 18 in. squares of walnut-veneered aluminium fixed

direct to the plaster with a self-vulcanizing adhesive. The upper parts of the existing window were masked by a new continuous pelmet, and a false ceiling was introduced 3 ft. below the existing one. The colour scheme is nigger brown, lemon yellow and grey, with stainless steel door furniture. Below, left, the platform frontage; right, the entrance lobby.



legal luminaries to solve—if the satellites of the law in an advisory capacity can solve anything. And Mr. Redfern, like others of his kin, is not sure of his ground. Indeed, on being challenged, he says (quite shortly), "I don't know."

In a somewhat long experience of law and so-called "learned" counsel's opinions, except in one instance, I have been unable to discover a legal luminary who was quite sure of his ground. For confirmation of this view let your readers' memories hark back to the series "This is the Law" put over on the wireless by the BBC. An archi-

tect's mistakes may well be his undoing; the doctors bury their mistakes, the lawyers' mistakes frequently provide the coroner and the undertaker with a job!

Except in one case that I remember, the Architects' Registration Council have had an easy passage with their victims. Perhaps some "Village Hampden" will call their bluff one of these days. Then Mr. Redfern (whose sagacity and ability I have always admired) will have the answer, and, doubtless, he will "trot it out" with great unctious. Meantime I feel that an ill-conceived and badly drafted instrument of

legislation (the Registration Act) is steadily stultifying and gradually destroying the architectural profession. The Act has diluted the profession without any resultant gain; it has delivered into the hands of the engineers—usually hard-headed, sane thinkers—the prizes. Unless something is done to stop the rot, the architectural profession (as we older men have known it) will fade away. Already the operatives are talking of nationalizing the building industry. Then there would be only one "closed shop"—a "shop" in which the architectural profession would be merely a small and inarticulate part.

The machinations of a professional body to make architecture a "closed shop" in its own selfish interest are pushing the competent and incompetent, on to a road travelled centuries back by the Gadarene swine.

G. B. J. ATHOE

Westminster

Parliament Square Replanned

SIR,—I have, on my return from abroad, just seen the above article in your issue of August 25. I would much appreciate an opportunity to state that I have, personally, made no attempt to solve the traffic problem.

The boundaries of the new island in the Square are the result of proposals made jointly by the Ministry of Transport, the London County Council and the Metropolitan Police. These were accepted by me as part of my terms of reference.

GREY WORNUM

London

Traditional Materials

SIR,—I would like to thank you for including encouraging notes on natural materials in the JOURNAL of August 11. Since the war the Rural Industries Bureau have retained me as Architectural Consultant and I have seen at fairly close quarters what a desperately hard time the small producers of natural materials have passed through. There was such a stampede to find and use new materials that it seemed to be forgotten that our traditional materials might have a place in future building.

New materials are tremendously important and experiment and research should be directed to them, but the wise user will see the whole range of materials, choose the right ones for their purpose and use them alongside one another. The danger is always that the architect will tend to fall back on traditional materials, possibly because of a fear of the future of new materials, whilst the adventurer will disregard them because of being reactionary.

The small brickyards, which make hand-made bricks, are now doing better. Their products, because of their unique range of colour and texture and their capacity to weather gracefully, must be retained in the range of available materials.

The quarries, generally speaking, are in an unhappy position and few of the large varieties of the country's beautiful stones are being quarried. These natural materials have qualities to enhance the appearance of modern architecture and efforts must be made to increase the palette (e.g., there should be the choice of a dozen stones with which to face a concrete building, not just one or two). It is possible, by making full use of them, to give our buildings an individual English character.

I do hope that from time to time you will be available to find space to include notes on these materials and particularly how they can be used in a contemporary manner.

JAMES M. KNOWLES

London.

NOTTINGHAM UNIVERSITY COMPETITION

The Council of the University of Nottingham is promoting a competition for the design of a hall of residence for women students on the Lenton Fields Estate, Beeston Lane, Nottingham, three-quarters of a mile from the main university buildings. Sir Percy Thomas, consulting architect to the University, will be the assessor. The first award will be £1,000, the second, £750, and the third, £500.

The hall will be one of four. One is already in the course of construction, but it is pointed out that competitors are not bound to the building line adopted for that building, as it is intended that each hall shall have an independent character.

The design of the building, which will house 150 women students, and will have 3 floors in preference, and not more than 4, should incline to a traditional basis, and the selected materials should be those which will mellow with age. The cost, including all fittings and built-in furniture, should be calculated at the rate of 4s. 6d. per foot cube.

136 students are to be accommodated in single study bedrooms and 14 in seven suites, each including two single bedrooms and one study. Bedrooms and study bedrooms are to be fitted with built-in furniture. A variety of designs of studies and study bedrooms is asked for and any suggestion of an institutional character in the design of the building should be avoided. One laundry unit should be provided on each floor as well as students' pantries. Bathroom and lavatory accommodation must be appropriately distributed on each floor; linen rooms and storage accommodation for cases should be provided, and service lifts should be installed.

Accommodation for academic and administrative staff should include a married Warden's suite; 6 unmarried Fellows' suites; Fellow's suites to be distributed throughout the building; 3 separate tutorial rooms, and 2 guests' bedrooms. Accommodation for the Vice-Warden, lady Bursar, and lady Cook is to be much the same as that for unmarried Fellows; service staff are to be provided with 8 single bedrooms, with joint bathroom and lavatory accommodation, and a staff common room.

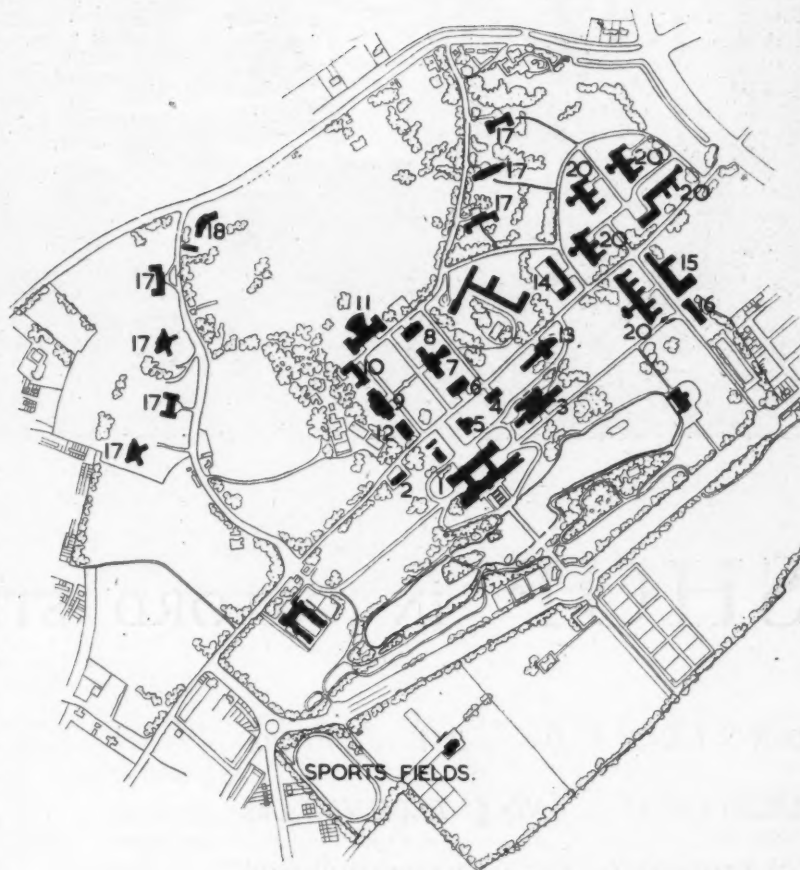
Also required are an additional common room for daily and outside staff; a students' dining hall, with provision for extension; an academic staff dining hall and common room; a service staff dining room, and kitchens and ancillaries. Public rooms will include the students' common room; 2 smaller common rooms; library; recreational room; 2 small music rooms; an entrance lounge and a porter's office at the main entrance.

It is intended within a few years to install a system of direct heating for the University site, but immediate provision must be made for the heating of the hall of residence by means of solid fuel boilers. Open fires are to be provided in all students' common rooms, entrance lounge, academic staff common room and wardens' lounge. Competitors are not bound to any particular type of construction, apart from the need for economy in steel. It is considered that a steel frame brick building might be desirable. Every effort should be made to solve the problems arising in such a building from structure-borne and air-borne noise.

The competition includes the preparation of a layout of the whole site. This includes the four halls of residence; the University Health Centre; playing fields; and 12 detached or semi-detached residences for Dons. A group of 3 such residences are to be related in layout to each hall of residence. Accommodation in each house is to include 4 bedrooms, 2 reception rooms, and usual ancillaries.

Particulars of entry for this competition will be found on page 299.

The photograph above, right, shows the main University buildings and the site for the extensions.



SITE PLAN

KEY

- 1 University College
- 2 Chapel
- 3 Students' Union Building
- 4 Spare
- 5 Music

- 6 Examinations
- 7 Lecture Block
- 8 University Press
- 9 Great Assembly Hall
- 10 Drama School
- 11 Library
- 12 Spare

- 13 Art School
- 14 Engineering, Power and Boilers
- 15 Physical Culture
- 16 Garages
- 17 Hall of Residence
- 18 University Arms Hotel
- 20 Science Blocks



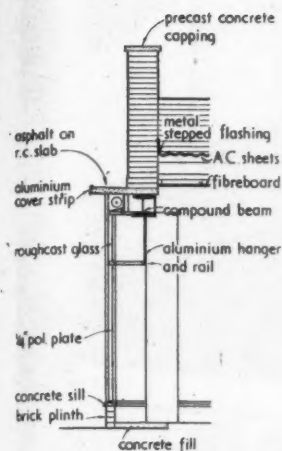
SHOP IN OXFORD STREET, LONDON

*DESIGNED BY THE
ARCHITECTS AND TECHNICIANS
OF THE JOHN LEWIS PARTNERSHIP.*

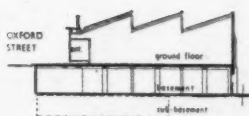
ARCHITECT IN CHARGE :

R . H . PEARSON

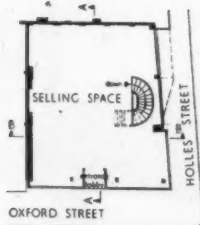
GENERAL.—The shop occupies part of the large blitzed area on the north side of Oxford Street where the John Lewis store stood before the war. The south-east corner of the site, with a frontage of 55 ft. to Oxford Street and 62 ft. to Holles Street, was chosen for the commencement of rebuilding, as the ground floor here was in reasonable trim, whereas the remainder of the site was gutted to basement level. This corner also had existing walls on the north and west sides, both at basement and



SECTION THROUGH THE SHOP WINDOW
[Scale: $\frac{1}{2}'' = 1'0''$]

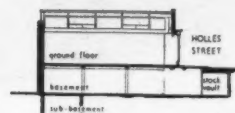


SECTION A-A

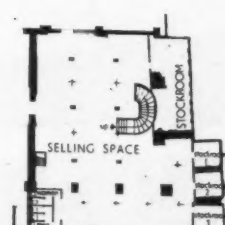


GROUND FLOOR PLAN

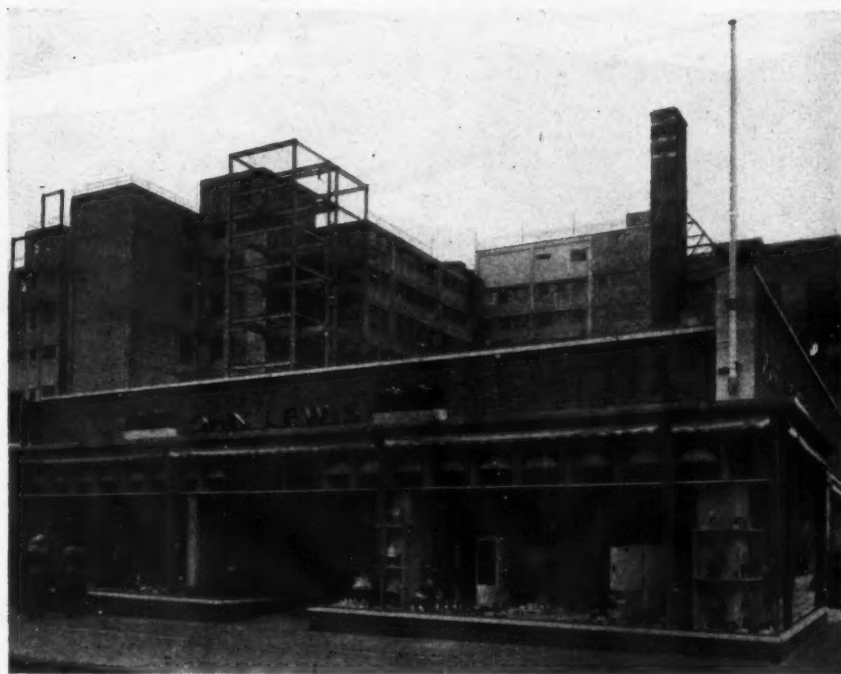
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SECTION B-B



BASEMENT PLAN



Opposite, the main staircase seen from the basement shopping area. Right, the shop front.

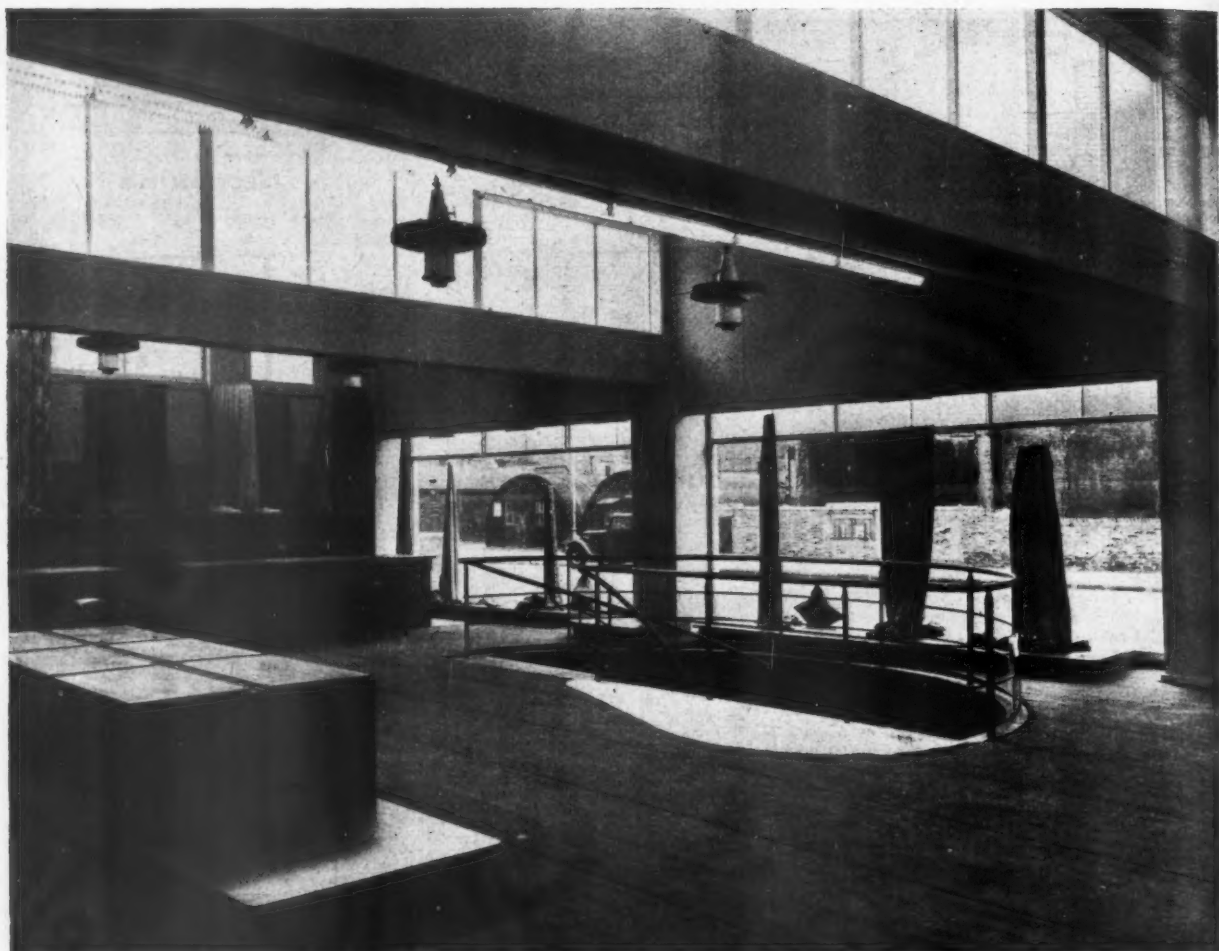
ground floor levels, and these, with some strengthening, were utilized in the structure. The design allowed for the fact that further extensions might be made along the Oxford Street frontage when conditions permitted.

PLAN.—The boundary of the plan was pre-determined by the existing walls and piers. The new shop fronts follow the line of those demolished. For this reason there is a break in the main line of building one-third along the Holles

Street front, where the shop-front projects beyond the old first floor building face.

CONSTRUCTION.—No permit for new structural steel or timber was granted. All steelwork used was salvaged from the site. It was decided to roof the ground floor in one span to avoid obstruction to the showroom area. The existing columns and piers in the basement carry the ground floor. The ground floor area is divided into three bays by two welded beams spanning

from the existing masonry pier positions in Holles Street to the existing west wall. Three areas of sloping corrugated asbestos roofing carried on steel rafters and purlins cover the ground floor. The underside of ceiling slopes are lined with fibre board with V-jointed panels. The north wall is strengthened by new brick piers which were carried up to the new ridge level. The space above the old walling is here also filled in with glazing up to ridge level. The existing rough concrete ground floor was levelled



The ground floor selling space, showing the staircase to the basement.

to receive floor carpet and linoleum. Carpet and linoleum were also laid upon the existing asphalt in the basement showroom.

EXTERNAL FINISHES.— All brick facings used externally are hand-made golden sand-faced stocks. The brickwork to the Holles Street front is weight bearing and also covers the serrated roof line beyond; its horizontal joints are finished to a concave section with horizontals left flush. Plinths to show-windows are in $4\frac{1}{2}$ -in. brickwork with straight vertical joints and are laid on a slate damp-proof course with asphalt backing. The two show-windows in the main wall to Holles Street are edged with white pre-cast concrete trims and cills and similar cills are carried around the remainder of show-windows. The mullions to projecting show-windows are formed in 2-in. diameter aluminium scaffold polling with

light wood glazing frames screwed to back. This gives the minimum show-window obstruction, with the strength required and economizes in timber. The show-window transoms are similarly constructed with $\frac{7}{8}$ -in. diameter vertical aluminium tubes and glazed in $\frac{1}{2}$ -in. double rolled rough cast glass.

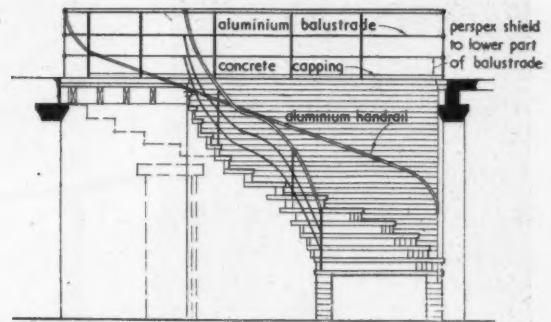
INTERNAL FINISHES.— The sloping ceilings to ground floor, together with the screens and soffits to show-windows and a part of the basement ceiling are in fibre-board distempered. All new brickwork is fair-faced finished and left unplastered. Old brickwork requiring making good was rendered in cement and sand. Walls, ceilings, and show-window enclosures are finished in specially mixed distemper pastel colours. The treads and landing of the new staircase are in coloured reinforced granolithic concrete, with

non-slip tile inserts to nosings, with carborundum dust in exposed surfaces. The back wall of the staircase and the risers between treads are in coloured concrete bricks. The back wall, being non-structural, has vertical straight joints raked out to a concave section with flush horizontal joints, and is finished at ground floor level with a coloured reinforced concrete band and curb. The open metal balustrading is formed in mild steel, with flats as uprights and tubes forming horizontal railings and handrail. The handrail is painted in three colours. Clear perspex is attached to this balustrading for two-thirds of its height between the show-window and stair well at ground floor level. New specially designed plastic, veneered chestnut shelf fittings and display units have been installed on the ground floor. Existing fittings have been used in the basement.

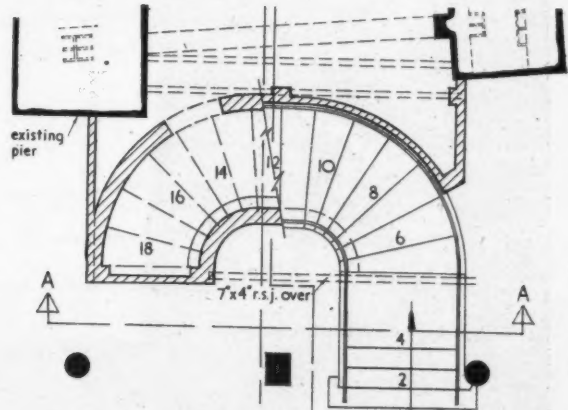
HEATING.—In order to conserve floor space and obviate a long run of mains from the existing boiler house, overhead radiant type gas heaters, incorporating a special heat-resisting glass cylinder to suit the general decorative scheme, are installed in the ground floor show-room. This type of heating could not be employed in the basement owing to insufficient headroom; standard floor type gas radiators are used here.

LIGHTING.—The ground floor show-room is lit by natural fluorescent tubes which run in two continuous rows on each ceiling slope, with metal louvre screens. Standard type tungsten floodlights are installed in show-windows. In the basement, colour-corrected fluorescent tubes in continuous troughs are positioned over the counters with tungsten general lighting and local spot lights for the display areas.

The main contractors were Messrs. John Lewis Building, Ltd. For list of sub-contractors see page 328.



SECTION A-A

PLAN OF STAIRCASE AT BASEMENT LEVEL
[Scale: $\frac{1}{4}'' = 1'0''$]

The ground floor selling space, looking towards the entrance lobby.



BY THE JOHN LEWIS PARTNERSHIP



The factory interior from the north-west.

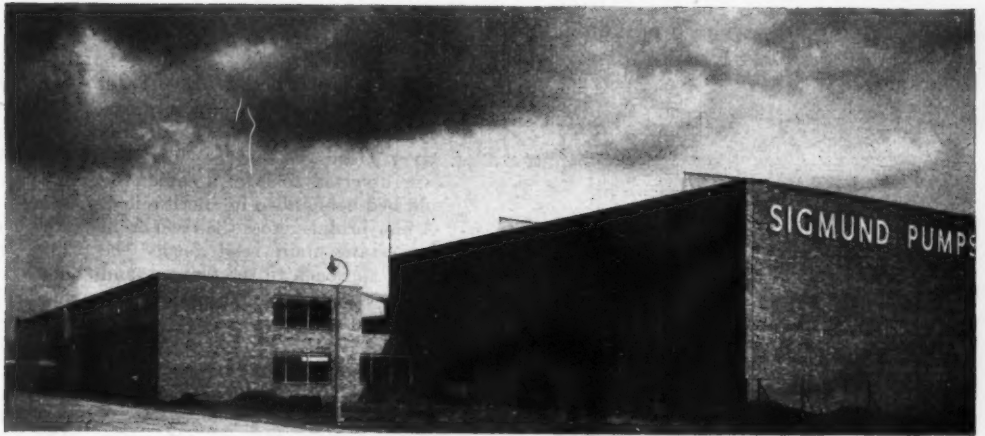
FACTORY AT GATESHEAD

*DESIGNED BY F. R. S. YORKE,
E. ROSENBERG AND C. A. MARDALL*

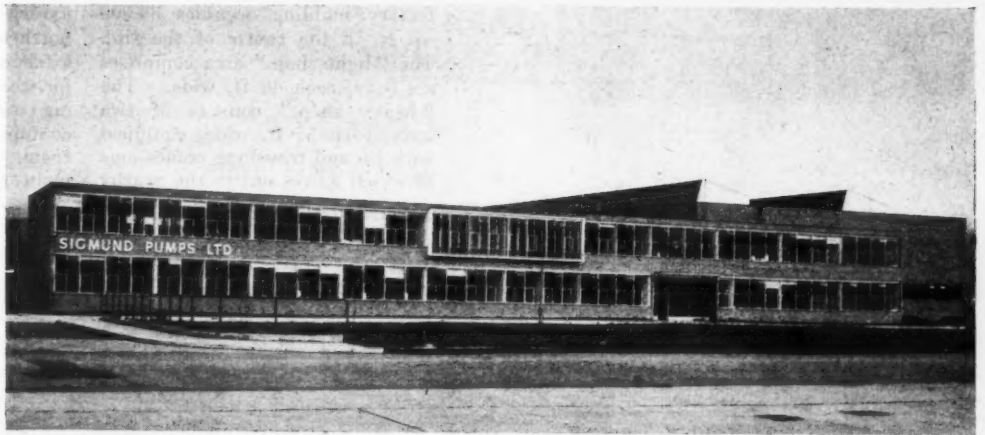
ASSISTED BY I. B. WILSON, P. BADCOCK, T. R. EVANS,
MISS PAULINE WHITING AND R. R. TOMALIN

GENERAL.—This plant was built for the manufacture of pumps and replaces a number of smaller standard factories. The stipulated requirements included provision for future extension; large covered loading bays and storage areas; testing tanks below floor level; administrative and canteen buildings of high standard, and good factory lighting.

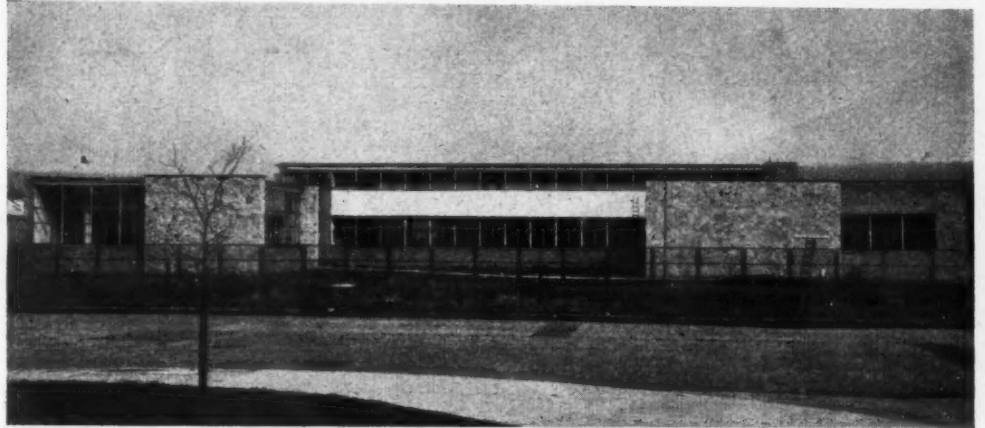
Factory and administrative block from the south.



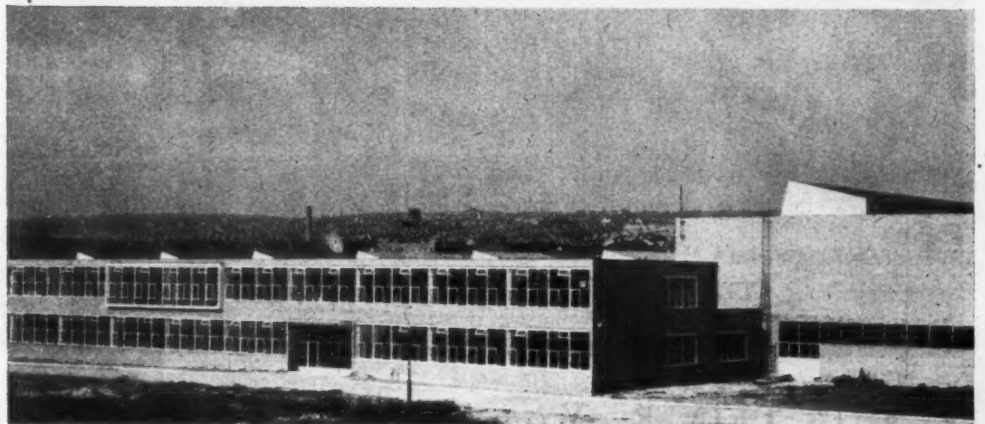
Administrative block from the west.

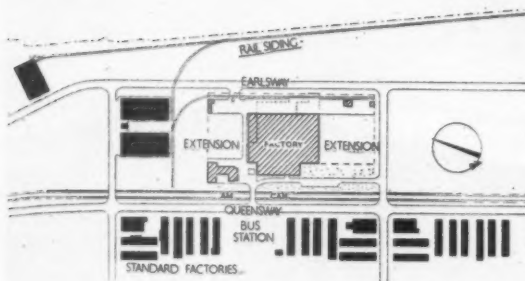


Canteen block from the west.



Factory and administrative block from the south-west.





SITE PLAN [Scale : 1:10,000]

SITE.—The site, on the Team Valley Trading Estate, is approximately nine acres. Originally the river Team crossed the area, but was diverted to form a canal, the old bed being filled in and levelled. A new bridge across the river from an estate main road forms the main approach to the factory, and goods traffic enters from the east of the site.

PLAN.—The total area of all buildings is approximately 144,000 sq. ft.; of this 24,000 sq. ft. is roofed storage space. The main factory building occupies 85,000 sq. ft. in the centre of the site. The "light shop" area comprises six bays, each 40 ft. wide. The "heavy shop" consists of two bays, each 55 ft. wide, equipped with jib and travelling cranes, one of which moves out to the nearby

railway siding for direct loading. The joiner's and pattern shop is separated from the main factory by a 13½-in. brick wall as a fire precaution; the remaining factory space is undivided except for stores formed by steel partitions. The two-storey administrative block is to the west of the main factory, with single storey lavatory and locker rooms between. Provision is made for adding a third storey. First-aid rooms at the north end of the factory are easily accessible from all parts of the site. The canteen block, with its small garden facing the river, is in the north-west corner of the site; the kitchen serves separate canteens for workers and staff. The building is also used for recreation, and contains a games room and a quiet room. Immediately inside the main gates at the north-west

The worker's entrance and clocking station, as seen from the factory.

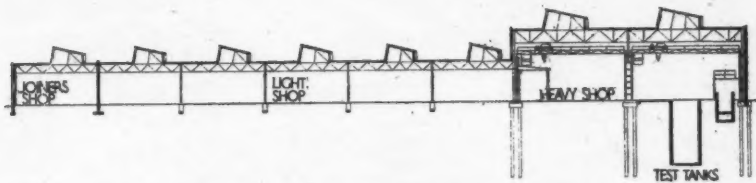


F A C T O R Y A T G A T E S H E A D

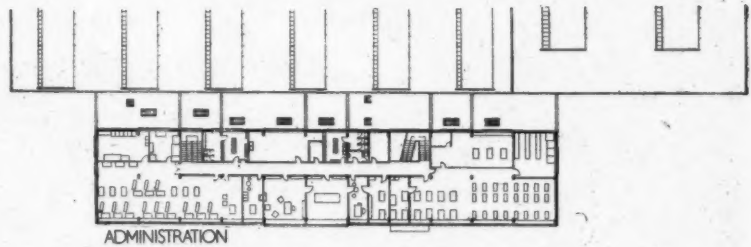
corner of the site is the gatehouse with the clocking station. At the east side of the site, a road links the goods entrance and weigh-bridge with the garages, loading bays and boiler house.

CONSTRUCTION.—The canteen, administrative block, boiler house and heavy shop are on piles; other buildings are on normal foundations. The factory is constructed of welded lattice girders and a steel decked roof with insulation board and bituminous felt finish, which is turned up at the parapets and bonded to the protected metal coping. The monitor roof lights are constructed on steel frames carried on the roof trusses, and are roofed in the same way as the normal factory roofing. The

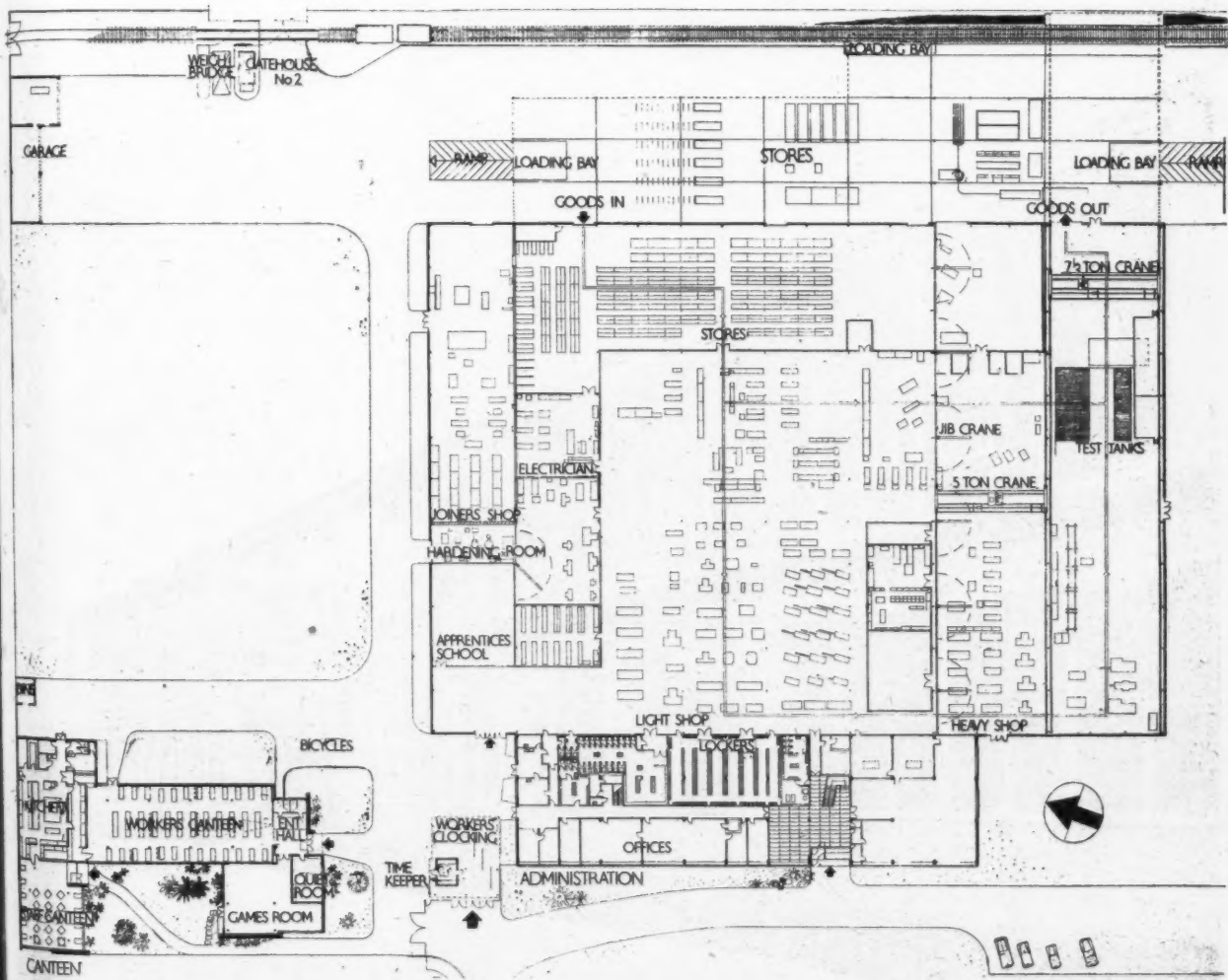
[Text continued on page 317]



CROSS SECTION THROUGH WORKSHOPS

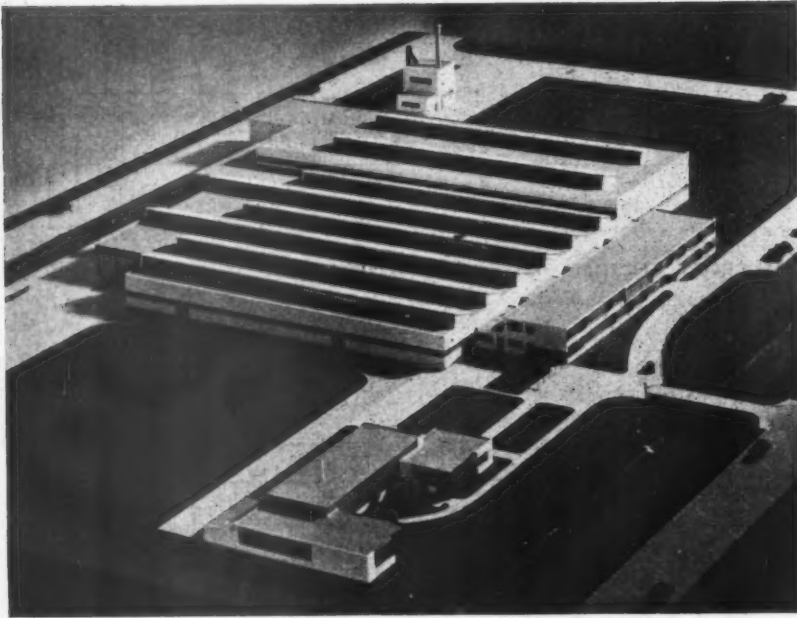


FIRST FLOOR PLAN

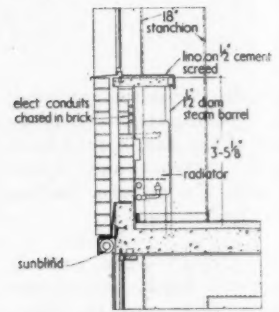


GROUND FLOOR PLAN [Scale: $\frac{1}{4}$ " = 1'0"]

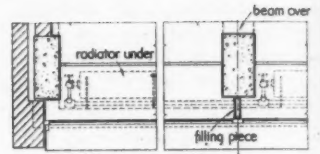
BY TORKE, ROSENBERG AND MARDALL



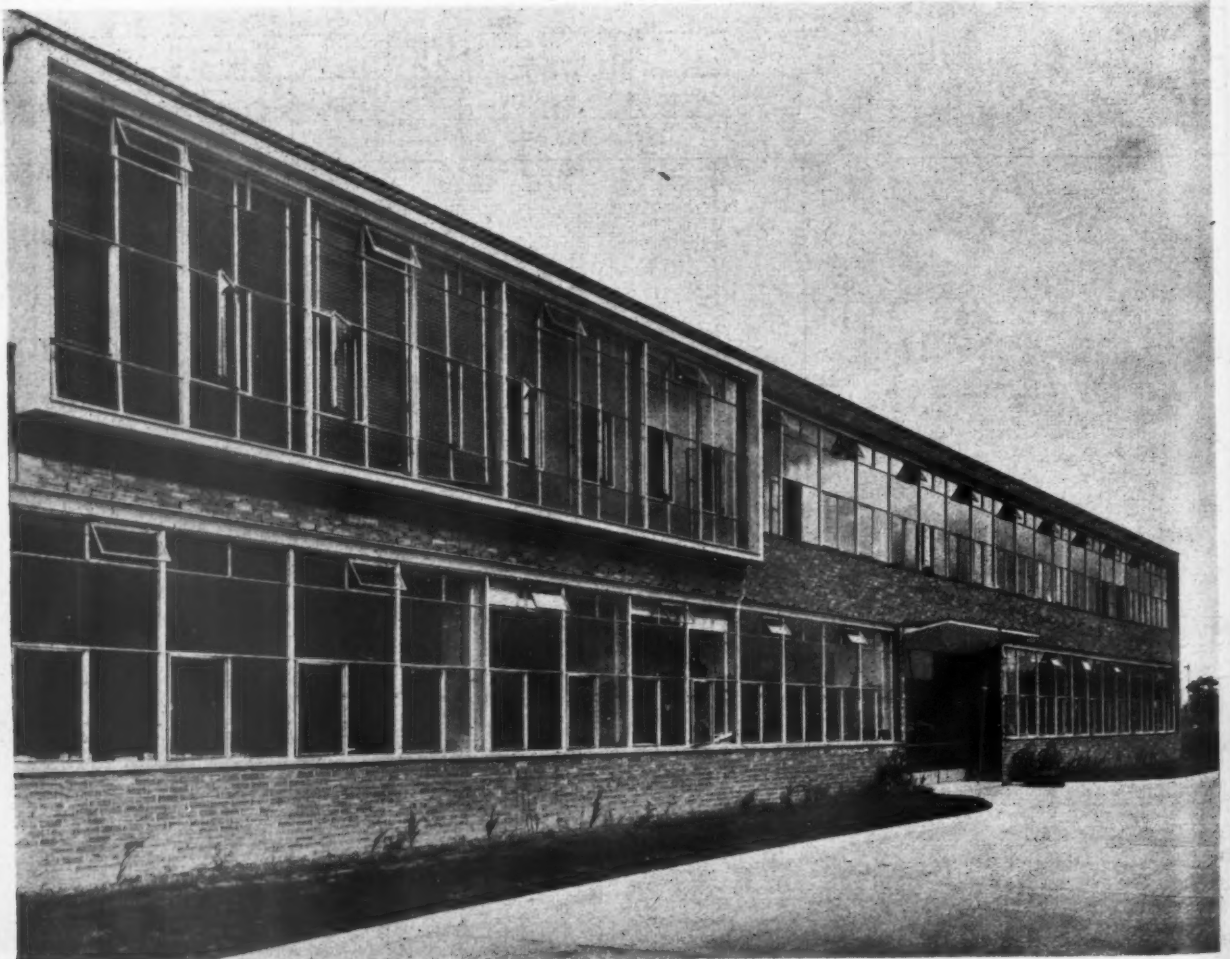
Model of factory. Below, entrance to administrative block, showing the projecting windows of the board room and managing director's office. Opposite, two views of the staff canteen.



SECTION THROUGH FIRST FLOOR LEVEL OF ADMINISTRATIVE BLOCK



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



F A C T O R Y A T G A T E S H E A D

[Continued from page 315]

external walls are placed clear of the stanchions, leaving a space of approximately 4 in. to enable pipes and conduits to be fixed in straight runs along the walls. This construction also allows the continuous factory windows to run past the stanchions. External walls are 9-in. brick below window level and above the windows the walling is carried on steelwork bracketted off the stanchions. It consists of a 4½-in. brick outer skin, 2-in. cavity, and a 2-in. foamed slag inner skin. Vertical expansion joints filled with mastic are provided at 40-ft. centres along the external walls. Internal walls are 4½-in. brick, and the standard office partitions are steel and glass. The testing tanks, generally 10 ft. below floor level, are in reinforced concrete; the depth of one section of tanks is 30 ft., and here poured concrete piles are used as permanent shuttering. Natural lighting to the factory is by roof monitors with patent glazing on the north side and low windows on the south side. The windows have projecting eaves and vertical fins to avoid glare from direct sunlight.

The administrative block has reinforced concrete columns, beams and slabs with 11-in. brick external walls. The internal walls generally are 4½-in. brick, with some standard steel and glass partitioning. The main staircase is of steel, with a rubber finish to the wood treads. The secondary staircase is of reinforced concrete with a terrazzo finish.

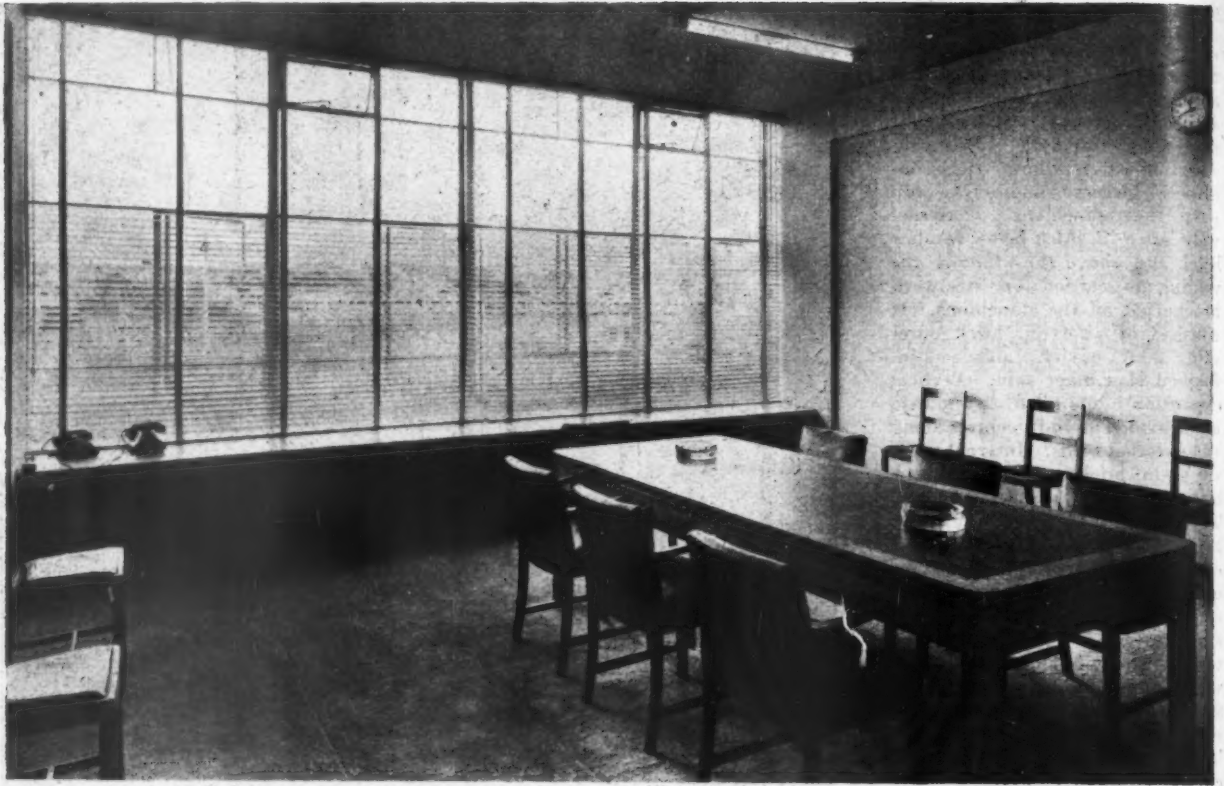
The canteen block has reinforced concrete columns, beams and slabs. The workers' canteen has two rows of columns beyond which the roof slab is cantilevered approximately 8 ft. The circular columns are cast in asbestos pipes, which are left in position and painted.

FINISHES.—All windows and external doors are of steel. The factory floor is granolithic. Floors in the administrative block entrance hall and corridors are terrazzo; in the offices they are linoleum or composition. Walls and ceilings, in the administrative block, are plastered and dis-tempered. The kitchen has fair-faced brick walls with some tiling. The factory has fair-faced brick walls. The canteen entrance hall floor is Hornton stone. The canteens, games and quiet rooms have asphalt floor tiles. Buff quarry floor tiles are used in the kitchens.

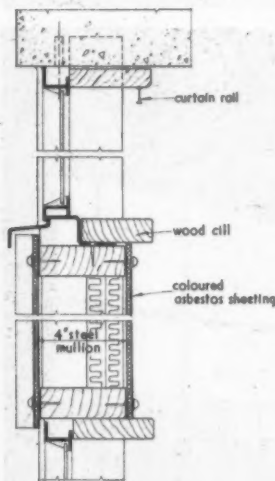
[Text continued on page 322]



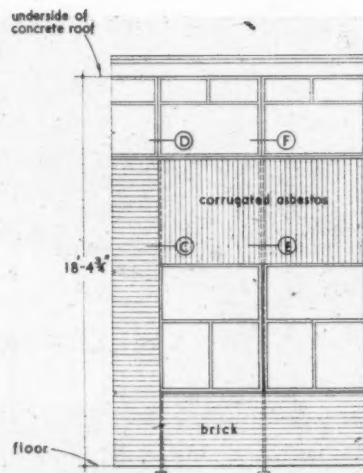
BY **TORKE, ROSENBERG AND MARDALL**



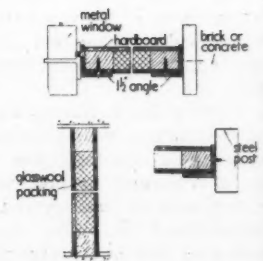
The board room in the administrative block.



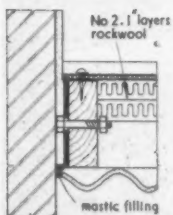
SECTION THROUGH CANTEN WALL



DETAIL OF CANTEN WALL
[Scale: $\frac{1}{4}$ " = 1'0"]



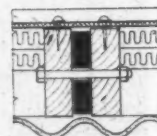
FILLING PIECES BETWEEN BRICK PARTITIONS, OR CONCRETE COLUMNS, AND WINDOWS
[Scale: $\frac{1}{4}$ " full size]



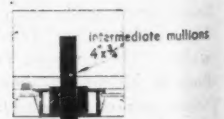
DETAIL AT C
[Scale: $\frac{1}{4}$ " full size]



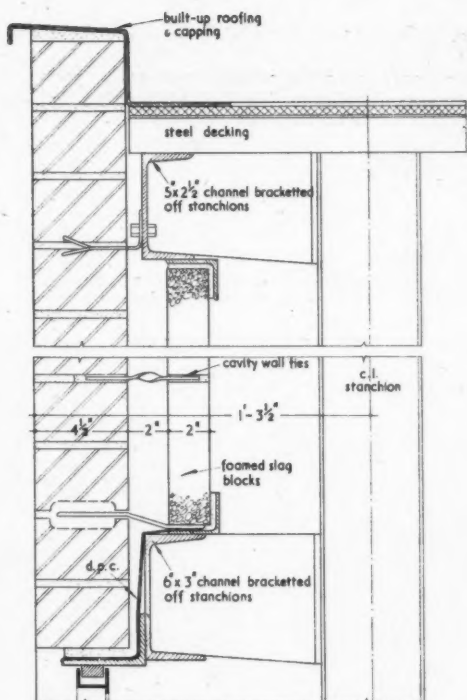
DETAIL AT D



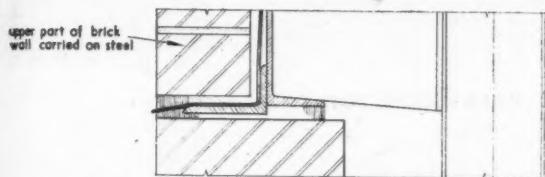
DETAIL AT E



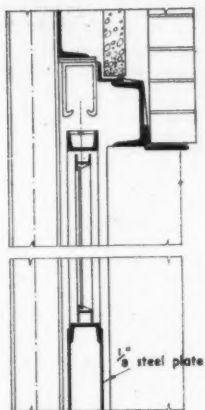
DETAIL AT F



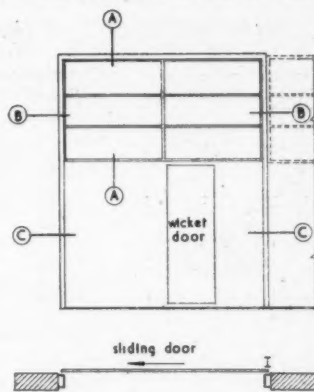
SECTION OF TYPICAL WALL OF FACTORY



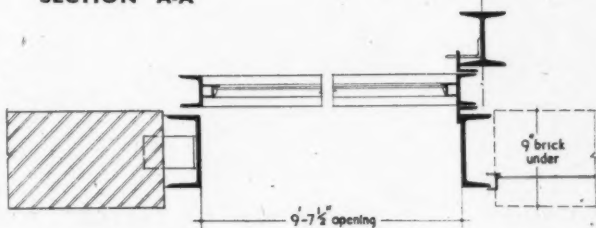
SECTION OF WALL WITHOUT WINDOW
[Scale: $\frac{1}{2}$ full size]



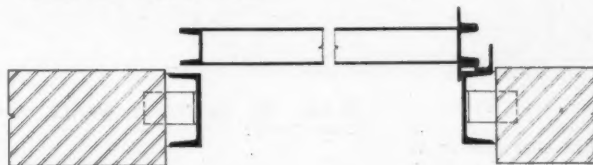
SECTION A-A



DETAIL OF SLIDING DOORS
[Scale: $\frac{1}{4}$ " = 1'-0"]



PLAN AT LEVEL B-B

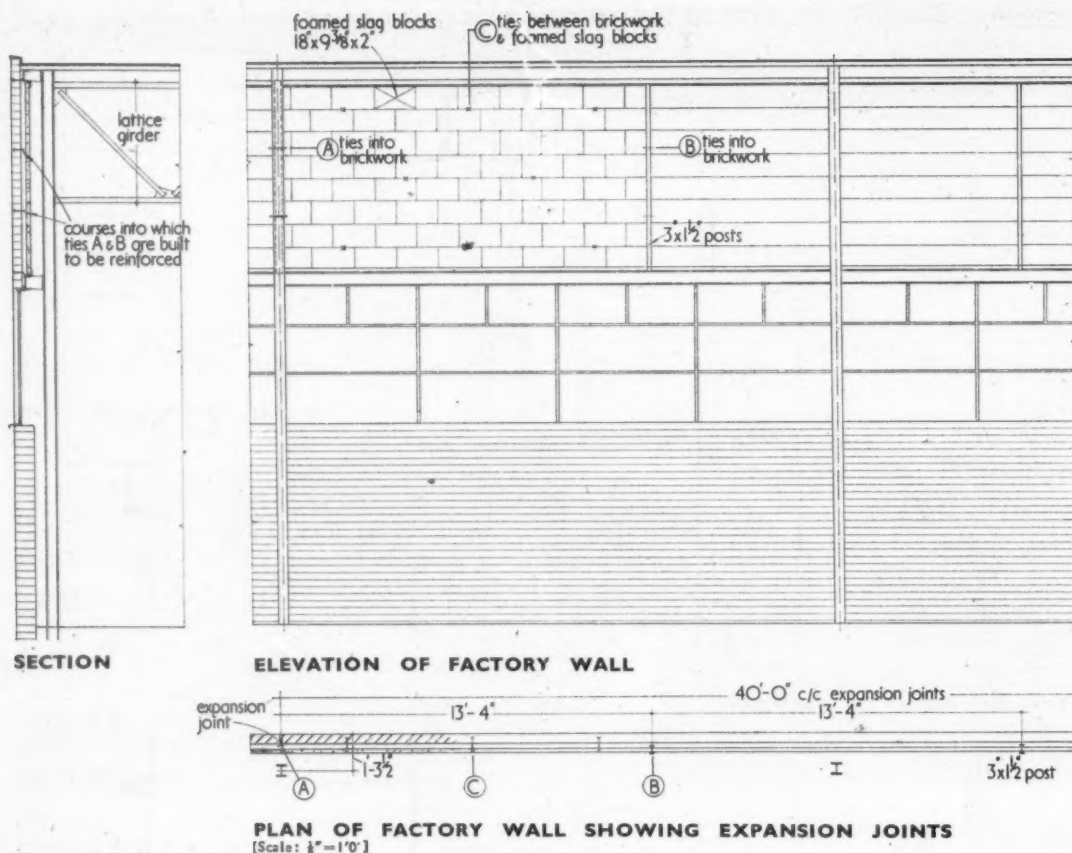


PLAN AT LEVEL C-C
[Scale: $\frac{1}{4}$ full size]

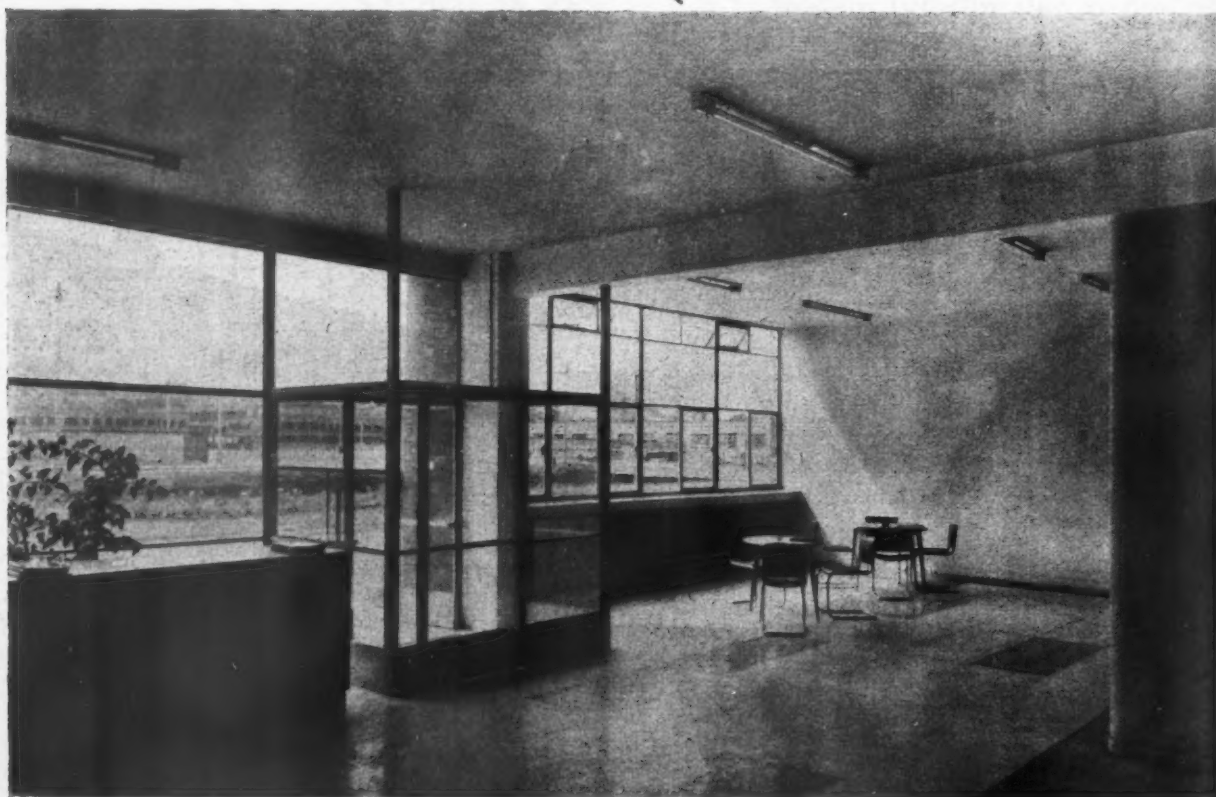
The workers' canteen.

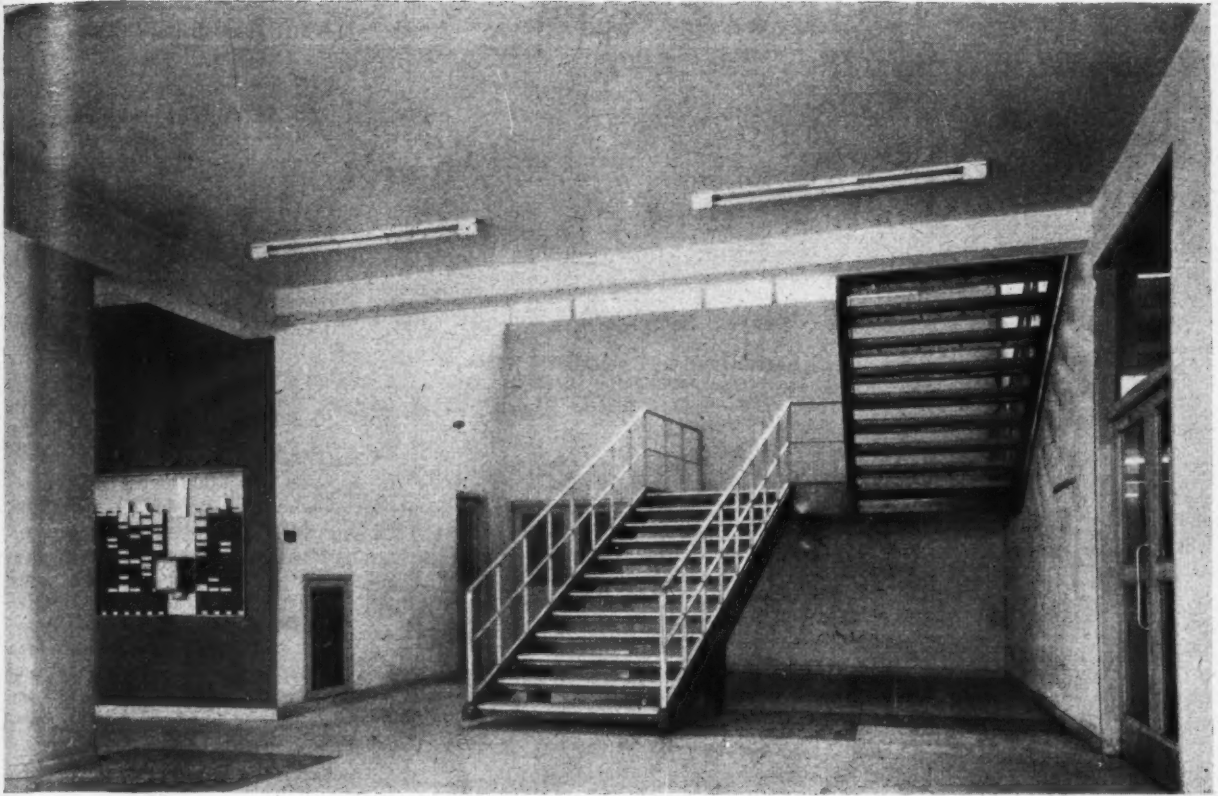


BY TORKE, ROSENBERG AND MARDALL

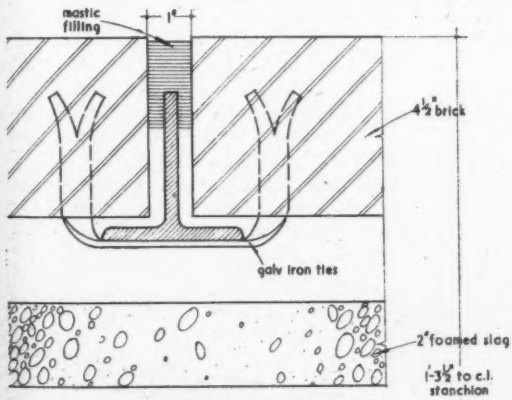


Entrance hall to the administrative block.

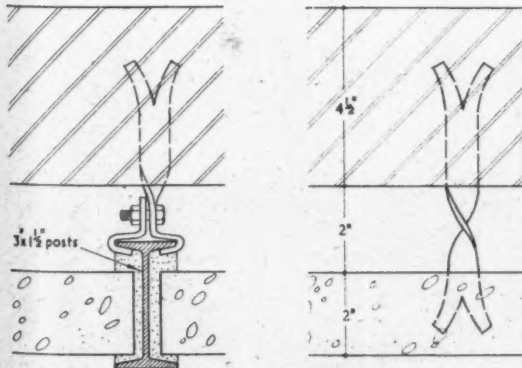




Staircase in entrance hall of administrative block.

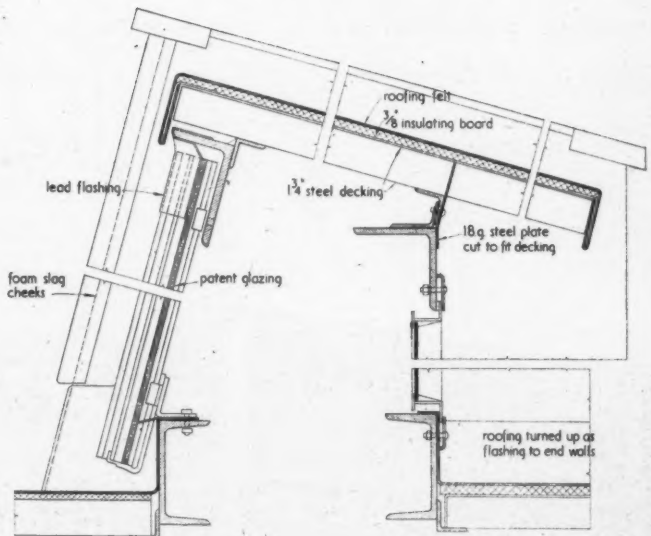


DETAIL OF EXPANSION JOINT AT A



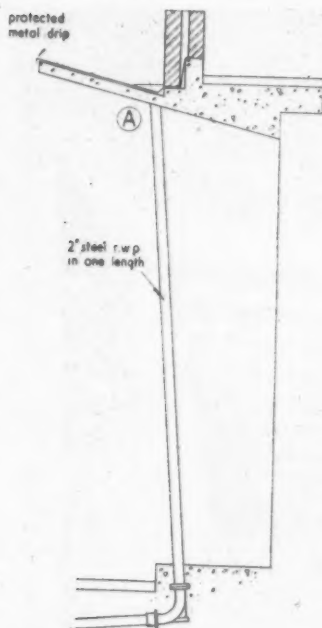
DETAIL AT B
[Scale: 1/2" full size]

DETAIL AT C

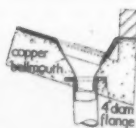


SECTION THROUGH MONITOR ROOF LIGHTS
[Scale: 1/2" full size]

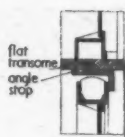
[Continued from page 317]



DETAIL OF CANOPY TO THE MAIN ENTRANCE
[Scale: $\frac{1}{2}$ "=1'0"]



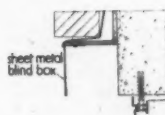
DETAIL OF OUTLET AT A
Entrance to administrative block.



HEAD OF DOOR SHOWING JUNCTION WITH WINDOW



HEAD OF DOOR SHOWING JUNCTION WITH CONTINUOUS FACTORY WINDOWS



BLIND BOX FIXING DETAIL



DETAIL OF WINDOW HEAD IN ADMINISTRATIVE BLOCK



NORMAL DETAIL AT A
[Scale: $\frac{1}{2}$ full size]

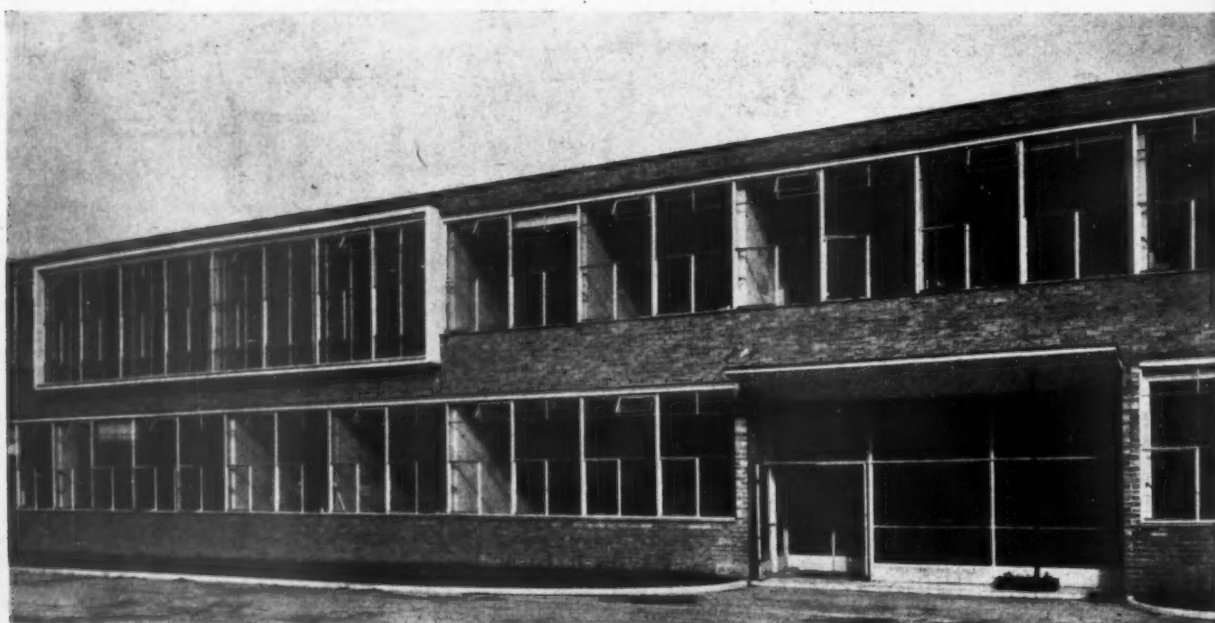
Walls generally are plastered and distempered.

COLOUR SCHEME. — External walls, red brick; monitor end walls, white; windows, silver grey; doors, light blue. The interior brick walls are painted in pastel shades, with small areas of bright colours in special positions. Varying colours have been used on different surfaces in individual rooms to give interest and variety. The steel decking used for the factory ceiling is finished in high gloss cream paint. The pipes and conduits, are in the colours of the British Standard Specification.

HEATING.—A mechanical conveyor fills the overhead storage bunker in the boiler house. A vertical boiler supplies steam for the testing tanks, for unit heaters in the factory, for all hot water radiators in the administrative block, and for all domestic supply. The main locker room is heated by a low-level piping system and extract ducting connected to the top of the lockers. The ventilation of the factory is partly natural, assisted by a small number of extract fans and fresh air connections to some of the unit heaters.

The consultants associated with the architects in the design of the factory were O. M. Marcel (reinforced concrete), John Porges (heating), and R. W. Gregory and Partners (electrical work).

The general contractors were Thomas Clements & Sons. For list of sub-contractors see page 328.



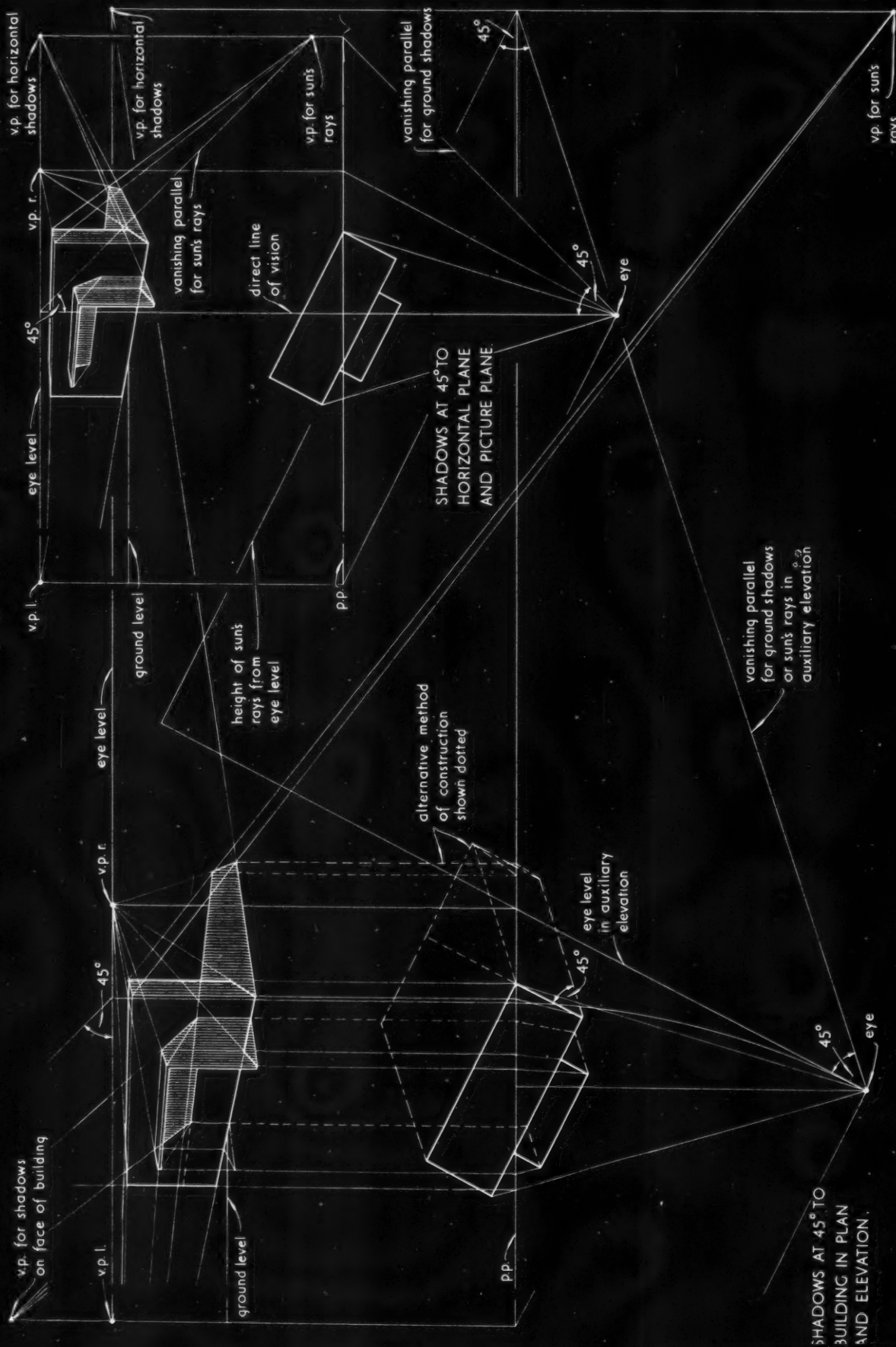
F A C T O R Y A T G A T E S H E A D

DRAUGHTSMANSHIP | PERSPECTIVE

The Architects' Journal Library of Information Sheets 207. Editor: Cotterell Butler, A.R.I.B.A.

I.B36

I.B36



1.B36 PERSPECTIVE DRAWING : SHADOWS CAST BY THE SUN

This Sheet, one of the series on draughtsmanship, describes three methods of construction for showing on perspective drawings shadows cast by the sun. The conventional architectural shadow projection is used in which the rays of light from the sun are assumed to be parallel and their direction in both plan and elevation 45° .

Shadows at 45° to Building in Plan and Elevation

In the first example the conventional rays of light are taken in relation to the building itself.

The perspective of the building is set up. From the eye position on the plan a line is drawn to make an angle of 45° to the vanishing parallel for v.p.r., i.e., parallel to shadows on the ground that are at 45° to the side of the building plan. From the intersection of this line with the picture plane a vertical projection is made to the eye level line, giving the vanishing point for shadows cast by vertical edges of the building on the ground or on horizontal planes.

To obtain the vanishing point for the sun's rays an auxiliary side elevation is set up. On the vanishing parallel for horizontal shadows a 45° triangle is constructed. The hypotenuse representing the sun's rays as seen in elevation looking towards the short side of the building, one short side representing the eye level line and the other representing the vertical distance below eye level of the intersection of the sun's rays with the picture plane, i.e., the level of the vanishing point required. On a vertical line drawn through the vanishing point for horizontal shadows this distance is marked off to give the vanishing point for the sun's rays in the perspective drawing.

The shadow of a corner of the building falling on the ground is found by drawing a line from the base of that corner to the vanishing point for horizontal shadows; from the top of the corner another line is drawn down to the vanishing point for the sun's rays to intersect the shadow line on the ground. This intersection gives the shadow point of the top corner of the building and consequently the length of the shadow.

The shadow of the left hand corner of the canopy is found in a similar way. A point immediately below the corner is found on the ground in the perspective drawing and a shadow line is cast back to the vanishing point for horizontal shadows to cut the base of the wall. From this point a vertical line is drawn up the wall face until it is cut by a line drawn from the front corner of the canopy to the vanishing point for the sun's rays. This intersection locates the shadow position of the corner of the canopy on the wall face.

A vanishing point may be found for the shadows falling across the face of the building at 45° which are cast by projections such as the canopy. This might facilitate drawing if a great amount of small detail occurs in these shadows. The shadows

fall on the same plane as the face of the building so their vanishing point will occur on a vertical line drawn through v.p.l. Their angle is at 45° to the horizontal in true elevation, therefore a true elevation is projected to obtain the height of this vanishing point above eye level. The vanishing parallel from the eye to v.p.l. is swung round on to the picture plane, projected vertically to the eye level line and from this point a line at 45° to the horizontal is set up to cut a vertical drawn through v.p.l. thus locating the vanishing point required.

Alternative Method of Construction

An alternative method is to cast all shadows on the plan and elevations that are used for the construction of the perspective. The points of shadows on the ground and on the vertical faces of the building are set up in the same way as those of the building itself. This method of construction is shown by the dotted lines on the drawing.

Shadows at 45° to Horizontal Plane and Picture Plane

In the second example the conventional rays of light are assumed in relation to the picture plane and to the eye or ground level. The projection of shadows from the sun in this position may only be suitable for examples where one axis of the building is at a fairly acute angle to the picture plane. If this is not the case the shadows cast may be too narrow to be effective.

The perspective of the building is set up. On the plan a line is drawn from the eye to meet the picture plane at an angle of 45° , i.e., parallel to the sun's rays on plan. The point of intersection with the picture plane when projected up to the eye level line gives the vanishing point for shadows cast from vertical edges of the building which fall on a horizontal plane. Through this point a vertical line is drawn on which the vanishing point for lines descending at 45° will fall. From the central point in the perspective a line is taken down at 45° to the eye level line to cut this vertical, locating the vanishing point for lines descending at 45° to the eye level or ground line, i.e., the sun's rays in the perspective drawing. The shadows are constructed in the way already described for the previous example.

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

Compiled from information supplied by :

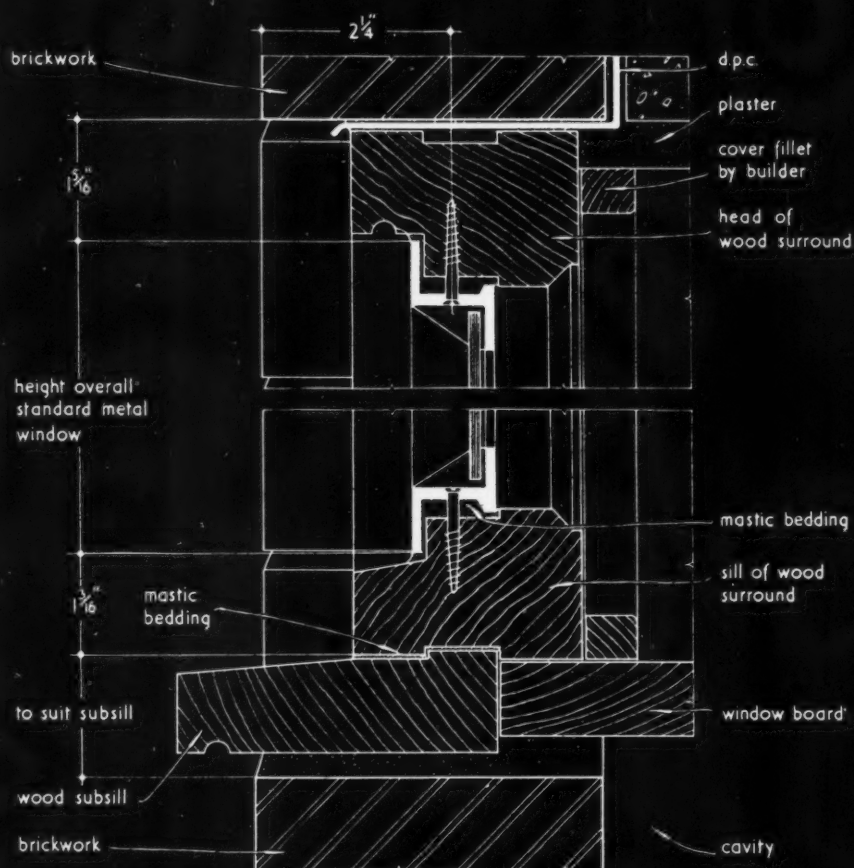
Eagle Pencil Company.

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

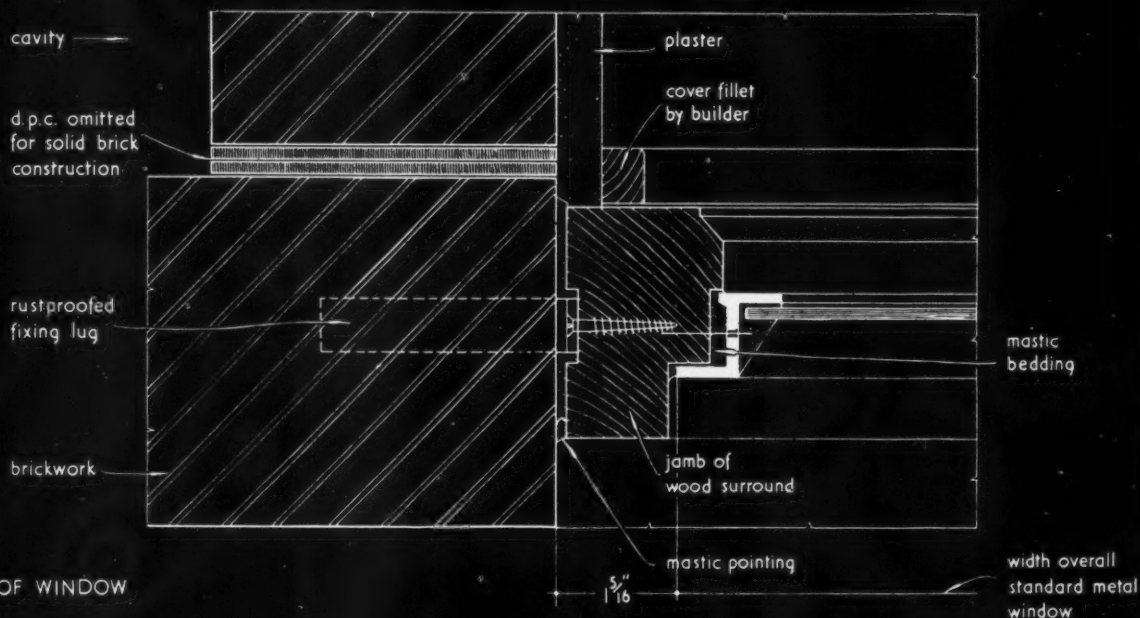
WINDOWS | STEEL | APPLICATIONS

24.D1

The Architects' Journal Library of Information Sheets 208. Editor: Cotterell Butler, A.R.I.B.A.



SECTION THRO' WINDOW



PLAN OF WINDOW

STANDARD METAL WINDOWS WITH WOOD SURROUNDS (AS B.S. 1285):
 FIXING TO 11" CAVITY OR SOLID BRICKWORK. (scale: $\frac{1}{2}$ full size).

Compiled from information supplied by The British Metal Window Manufacturers' Association Limited.

24.D1 STANDARD METAL WINDOWS WITH WOOD SURROUNDS (AS B.S. 1285) : FIXING TO 11 IN. CAVITY OR SOLID BRICKWORK

This Sheet gives details of fixing standard metal windows with wood surrounds to 11-in. cavity or solid brickwork. Sheet 24.C1 illustrates the method of specifying standard metal windows and Sheets 24.C2 and 24.C3 give standard sizes and types. Further fixing details will be given in subsequent Sheets in this series.

Brickwork Openings

It should be noted that where these surrounds are used $2\frac{1}{2}$ in. (plus depth of subsill used including mortar joint) must be added to the total height and $2\frac{5}{8}$ in. to the total width of the standard metal windows to determine the sizes of the actual brickwork openings.

British Standards

The wood surrounds shown are in accordance with B.S. 1285: 1945.

Compiled from information supplied by :

The British Metal Window Manufacturers' Association, Ltd.

Address : 2, Great Peter Street, London, S.W.1.

Telephone : Whitehall 9606.

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

TECHNICAL SECTION

BUILDING RESEARCH

There has been a very serious time lag in bringing the Annual Reports of the Building Research Station up to date after the war-time gap. The latest publication* deals only with 1947, but, nevertheless, it is an important document well worthy of comment. The detailed report of the Director, which deals with individual programmes of research, will be referred to in the Information Centre of this Journal, but the broader matters covered by the introductory report of the Building Research Board are of sufficient importance to warrant special mention.

There is no doubt that in recent years architects have received increasing benefits, both direct and indirect, from the work of the Station. Much of the direct benefit has resulted from the very large amount of the work of BRS having been given up to short-term programmes dealing with matters of immediate importance. Up to a point this is an excellent thing, and it must be one of the important reasons why architects now tend to grumble much less about the "unworldliness" of the scientists. There is, however, a very real danger—as the Board points out in its report—that this concentration upon short-term work takes the staff away from the longer-range and more fundamental work. The success of the recent short-term investigations has depended very largely upon having a sound background of past fundamental work and unless this can also be ensured for the future the situation becomes similar to that of any concern which is living on its capital.

It is also interesting to note the considerable increase in effort towards publicising the results of the research work. There have been more exhibitions, a return of the excellent BRS Digests inserted in the RIBA Journal and the beginning of the useful series of National Building Studies. The decision to open a branch of the BRS in Scotland should also materially help to improve contacts in the North.

Two aspects of the Station's work of very obvious appeal to architects are the continued development of full-scale buildings on the Abbots Langley site and the decision to carry out studies of building types rather on the lines of the studies made for the Post-War Building Study on House Construction. The Abbots Langley development now includes three blocks of flats for full-scale trials on sound insulation related to varying types of structure. All this shows that there is plenty of imagination and activity. The real danger appears to be the lack of resources to deal with all urgent needs and at the same time to keep moving with the more fundamental work.

* Building Research, 1947. HMSO, price 2s. net.

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

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

2.97 planning: general SURVEY TECHNIQUE

Basic Surveys for Planning. Edited for Association for Planning and Regional Reconstruction by J. Tyrwhitt and W. L. Waide. (Gilbert Wood & Co. Ltd.; Iliffe & Sons Ltd. 1949. 5s.)

Informative and very useful report on an attempt by specialists in conference with Kent County officers to outline a scheme for surveys satisfying the requirements of the Town and Country Planning Act, 1947. Illustrated. Index.

This conference of a group of specialists meeting as an expert survey team took place in August, 1947, and was called to investigate the difficulties that would face town planning officers concerned with the preparation of the survey material obligatory under the 1947 Act. The Kent County Council, whose County Planning Officer, Mr. J. W. R. Adams, F.R.G.S., P.P.T.P.I., F.I.L.A., had just completed a general survey of the county, acted as hosts, placed all available survey material before the group of experts and permitted the officers of the County Planning Department and other departments to take part in the discussions.

The programme of work included the following aspects: The examination of a special exhibition of the county's survey material; the preparation of reports by each member of the team on survey material required for Kent after a discussion on those points that should receive special study in connection with the county development plan; a discussion and again reports by each member on an ideal county survey programme; and, lastly, an investigation into questions of priorities and staffing concerning each part of the survey. The members of the group included, besides others, an industrialist, an agriculturalist, a sociologist, a geographer and a traffic expert.

Before summarizing the results of the team's deliberations the editors give a short general introduction. They state that the survey and its appropriate organization form the essential basis of the work of any planning department responsible for a region, a county or a town. "Not only is the survey organization necessary for the preparation of the development plans but it is the means

by which an efficient administrative system is established for the day-to-day control of development and for the implementation of the plans." Without such an organization responsible for the efficient recording and analysis of continuously changing conditions planning as a whole would fail.

Under the 1947 Act three types of plans have to be prepared and submitted to the Minister within three years of the Act's appointed day, July 1, 1948. They are:—Development plans for counties; development plans for towns within counties; and detail plans for areas ripe for immediate development and those in which redevelopment is considered necessary. The survey aspects which should be investigated in connection with these plans are set out in the report in two different sections, the first representing a summary and the second a detailed analysis of basic survey data. Both these sections are subdivided under the same headings: County surveys of first priority; county surveys of second priority; basic surveys for development plans for towns within the county; and examples of local surveys necessary for certain detailed aspects of the plan.

The summarized version contains merely lists defining the headings under which information should be collected, giving the sources from which relevant information may be obtained, and indicating the type of specialist who should be in charge of each particular survey aspect. The detailed version analyses each of the various subjects outlined in the preceding lists in a uniform manner. It determines the objectives to be aimed at by the survey, gives an outline of the scope, contents and basis of information to be recorded, discusses methods and standards of survey notation and presentation, and suggests types, qualifications and numbers of planning staff required for the efficient preparation of the relevant material.

There are two appendices, the first of which gives a specimen of a transport survey together with a chart showing the inter-relationship of transport with other survey data. The second appendix contains a summary of these problems which the group examined in their study of Kent.

Although all the investigations undertaken during the conference were closely connected with and based on work concerning one particular county the findings and recommendations as set out in the report are equally applicable to any town or county area whether in this country or abroad. The documentation of these findings within a booklet of 42 pages only is a model of concise and clear presentation of factual data and, as a reference guide, a most valuable contribution to the comparatively new science of planning survey technique.

11.18 materials: general BUILDING RESEARCH

Building Research 1947. (HMSO, 1949. 2s.)

Annual Report of BRS for 1947. A valuable summary of the work of the Station.

First comes a brief report of the Building Research Board in which important points of policy are mentioned. (See Technical Leader 22.9.49.) Then follows the Director's report of the year's work. This covers Materials, Building Construction, Design and Performance of Structures, Soil Mechanics, Efficiency of Buildings, Fire Research and certain other matters. It describes in a dry and matter of fact tone the vast range of subjects studied. It is always worth glancing through these Annual Reports if only to remind oneself of the vast scope of the work covered. A more careful reading is also worth while, however, as even in the very condensed form in which the report is given there is much to set the architect thinking and to suggest that further enquiry on a particular subject would be profitable.

12.37 materials: metals CORROSION OF METALS

The Corrosion of Metals I & II. W. H. J. Vernon. (J. Royal Society of Arts, July, 1949, pp. 578-610.)

Two papers dealing exhaustively with the theory of metal corrosion, and with practical preventive measures. Notes on use of different metals together. Valuable to architects. Illustrated with photographs and diagrams.

The author emphasizes the national importance of checking inefficiency and wastage due to corrosion, particularly of ferrous metals. The various types of corrosion are discussed and its electro-chemical characteristics clearly explained. "Noble" metals, i.e., gold, platinum, and silver, being in their natural state, are stable, whilst others in various degrees tend to revert to their original states of combination in nature. The products of this corrosion sometimes, as in aluminium and copper, suppress future attack. Corrosion resulting from the action of a simple voltaic cell occurs where two metals of widely differing electrode potentials are in the presence of a suitable electrolyte, commonly acid industrial waters and neutral salt solutions. The mechanism of surface pitting, which is much more dangerous than uniform corrosion, is of this nature.

Atmospheric pollution is considered more dangerous to mild steel than humidity alone, the rate of rusting in Sheffield, for instance, being about five times that of Llanwrtyd Wells, a rural district with more than double the rainfall of Sheffield. Sulphur compounds freed as the result of burning coal are largely responsible for this and more action should be taken to limit pollution.

The second paper deals with preventive measures, based on modifications of design or procedure, of environment, of the metal, and on protective coatings. In the consideration of the first of these the bad effects of building steel into masonry are illustrated, and the increased volume required by the corrosion products are shown to cause additional damage.

Warnings are given against designs involving crevices between metal parts, against water systems including copper pipes and galvanized iron cylinders, against steel gutters on lead or copper roofs, and gutters of zinc and lead on roofs covered with cedar shingles.

The last section gives a brief but clear picture of the numerous protective coatings, both natural and applied, and the factors determining their success.

14.26 materials: concrete VEGETATION GROWTHS ON CONCRETE

Vegetation Growths on Concrete. V. M. Webb. (Building Topics, July, 1949.)

Conditions favourable to growth of algae, lichens and mosses, their danger, and preventive measures.

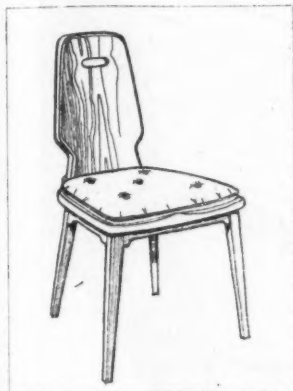
Generally this occurs only on old damp concrete walls and renderings, especially where cracks exist. Algae, lichens and mosses are not seriously harmful, but they prepare the ground for ferns, weeds, and creepers, whose roots penetrate the wall.

No precise preventive or curative methods are given, but scrubbing with soapy water is said to be effective.

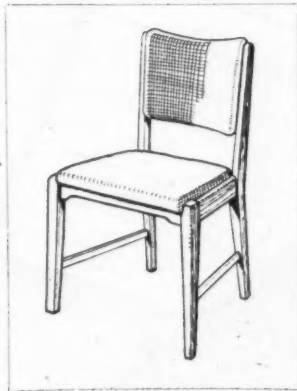
15.60 materials: applied finishes PAINTING IRON AND STEEL

Protective Painting of Iron and Steelwork. S. Endwick. (Building Topics, July, 1949, pp. 9-12.)

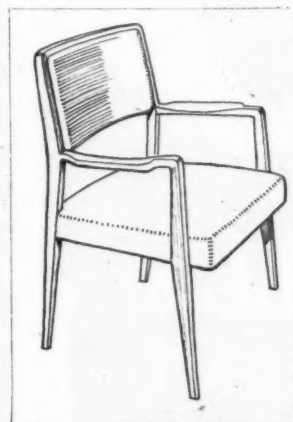
CONTEMPORARY FURNITURE BY THE STORY WORKSHOPS



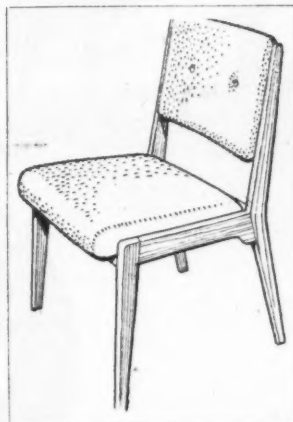
M.C. 349



M.C. 649



M.C. 149A



M.C. 249

These new Chair models are now in production and will be available in Mahogany, Beech, Walnut and other woods. P.T. will not apply to all of them if quantities required are sufficiently large.

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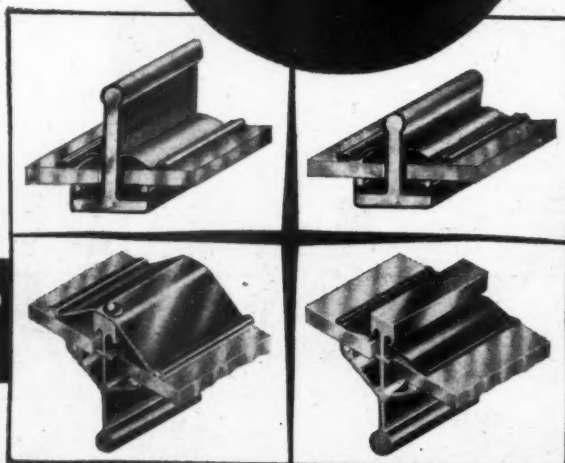
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HILLS PATENT GLAZING



Top illustrations show section of Hills Lead Clothed Glazing Bars. Bottom illustrations are of HILUMILUX Roof Glazing System, (a) with Aluminium Capping, (b) with Lead Wings

Short description of principal types of protective paints, giving separately pigments for priming and finishing coats and media. Chlorinated rubber films and bituminous coatings also mentioned. Importance of correct surface preparation emphasized.

16.53 materials: miscellaneous

STONE WALL EXPOSURE TEST

Stone Wall Exposure Test. D. W. Kersler and Ross E. Anderson. (J. of the Clerks of Works of Great Britain Incorporated, July, 1949.)

Observation of natural weathering processes in relation to laboratory tests at National Bureau of Standards, USA. No results available yet.

Thirty different types of stone have been built into a wall including various types of dampcoursing, and set part in high calcium lime mortar (1:3) and part in cement mortar (1 part cement, 0.4 parts ground limestone and 3 parts sand). The tests aim at discovering agents most destructive to specific types of stone. The theories suggested are that stone contains small amounts of mineral impurities which react chemically with each other on exposure, and also that internal stresses are set up in stones composed of two minerals having different rates of expansion.

19.73 construction: details

ALUMINIUM BUILDING

Aluminium. New Alcoa Administration Building at Davenport. Harrison & Abramowitz, architects. (Architectural Forum [USA], June, 1949, pp. 76-80.)

Steel framed building with a diversity of aluminium products in facings, window frames, ducts, fixtures, etc.

The most interesting feature of this building, in which all sorts of aluminium products have been used extensively, is the external facing formed by corrugated panels in cast aluminium alloy. These panels have a standard size of 4 ft. by 7 ft. 3½ in., weigh 162 lb. and are bolted to the steel frame, which also supports the inner skin of wall consisting of 4 in. thick precast panels in light-weight concrete.

The total thickness of the wall is 9½ in., including the interior furred finish and the air space between aluminium and concrete. An impervious weather seal was not sought in the joints of the exterior aluminium panels; what water penetrates this shield drains off before it presents a real problem for the concrete slabs.

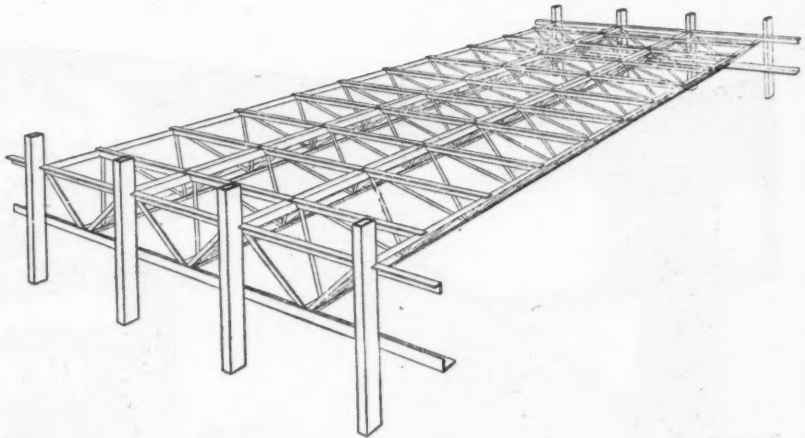
19.74 construction: details

50-FT. SPAN FLOOR TRUSSES

G.M. Technical Centre. Saarinen, Saarinen & Associates, architects. Smith Hinchman & Grylls, architect-engineers. Thomas D. Church, landscape architect. (Architectural Forum [USA], July 1949, 70-78).

Proposed large grouping of industrial buildings. New type of floor structure of 50-ft. span.

Out of the four separate building groups at the technical centre of General Motors near Detroit, the Advanced Engineering Section is scheduled as first for immediate construction. For the 50-ft. span an original truss of triangular cross-section has been developed. The lower chords of these trusses avoid the columns, leaving the column lines free, across the building, for all kinds of connections. Air conditioning ducts can easily be passed through and a high degree of lateral stability achieved.



New type of 50-ft. span floor trusses for General Motors Technical Centre, near Detroit. See 19.74.

24.120 lighting

CHURCH LIGHTING

Lighting of Churches. L. C. Rettig. (Trans. Illum. Eng. Soc., Vol. XIV, No. 5, 1949, p. 177.)

Different lighting system applied to ancient and modern churches. Limited usefulness. Illustrated.

It is admittedly difficult to generalize on how to light such varied types of buildings as churches, but the author unfortunately chose to try to date every kind of lighting system, direct, indirect, and all the rest, to the various types of churches without thinking strongly enough about the visual conditions for people in the congregation.

Some facts emerge. He recommends general light to enable all readings to be done without local lights. He notes the necessity for more light in the chancel than the nave to hold attention. And he records the point that flat, polished gold and silver ornaments are impossible to light because they are luminous.

26.52 services and equipment: miscellaneous

PLUMBING AND WATERFITTING

Newnes Plumbers' Pocket Book. W. J. Woolgar. (George Newnes, Ltd. 1949, 5s.)

Pocket book containing information concerning all branches of plumbing and water fitting.

Though primarily intended for plumbers, this little book should also prove useful to architects. It contains, in immediately accessible form, information on pipework, cold water supply, hot water supply, drainage and sanitation, glass and glazing, and plumbers' tools.

The first section deals with pipework and the sizes and weights of pipes and jointing methods; whilst the part concerning the setting-out of bends should assist architects in designing pipe ducts, sink enclosures and the like in such a way that the plumber does not have to perform miracles of contortion in fitting his pipework into an ill-considered space.

The sections on water supply give useful information concerning the relevant regulations, quantities required, sizing and capacities of pipes, and equipment such as pumps, water softeners and boilers.

That on drainage includes soil and vent pipes and wastes, both on the one- and two-pipe systems, and storm water gutters and drains, with regulations, materials, capacities and methods of protection.

Altogether a useful little book; and, furthermore, unlike many "pocket books," it will go in the pocket.

26.53 services and equipment: miscellaneous

THERMAL INSULATION

Mechanical Refrigeration, Part B. Thermal Insulation. Draft BS C of P 406: 1949. British Standards Institution. 3s.)

Code of Practice covering materials and constructional methods for use in lining cold stores and other refrigerated rooms.

Architects will find this Code of Practice of great assistance in specifying for the insulation of cold stores and in ensuring that no damage to the structure arises from their presence in a building. This is particularly important at the present time, when the storage of foodstuffs at temperatures around 0° F. is becoming common practice.

The Code covers insulating materials and vapour barriers and their installation; the protection of timber against fungus attack; the avoidance of structural damage, due to expansion and contraction, or the freezing of the earth beneath; the fixing and insulation of the pipework; and finishes for walls, ceilings and floors.

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

3002 CONVERSION TO FRIED FISH SHOP

Q My clients have bought a shop which is still war-damaged. Its last use was as a lady's hat shop (1944). My clients own a number of fried-fish shops and bought this for an additional branch. I believe that it is now necessary to obtain the permission of a local authority to change this use; does this mean that a development charge will be payable?

A No. Class 6 of exemptions under Order 1188 of 1948 includes "the use of any type of shop as a shop of any other type." Planning permission is needed. Payment of a development charge is not.



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10, Corporation Street.
Tel. Deansgate 5971

READING
571-3, Basingstoke Road.
Tel. Reading 81560

This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

CEMENT AND NATIONALIZATION

I am not sure whether the pros and cons of the nationalization of any particular industry really come within the scope of these notes, but most of us know that the cement industry is nearly at the top of the list if the present Government is in power after the next election. The Cement Makers' Federation, however, rather naturally maintains that there is no basis, in common sense or in economics, for this decision, and has produced a booklet called *Facts About the Cement Industry*.

In this booklet it is claimed:—

(a) That cement in the British market today is cheaper than in any other country of the world; 70s. a ton in London against 75s. 6d. in Brussels, the next lowest.

(b) That total deliveries and exports deliveries were last year greater than ever before.

(c) That in productivity per worker the British cement industry excels even that of the United States (cement is 121s. 7d. a ton in New York).

(d) That the policy of the industry is to promote new and better uses for cement and to provide for the consequent increase of demand by the improvement and extension of plant, to be financed without Government aid.

(e) That to the same end it has greatly enlarged its research and development work.

(f) That its structure as an integrated industry is responsible for its notable record of achievement and ensures the stability which makes it able to plan for the future.

It is also pointed out that no industry has been less worried by labour troubles than cement. Since the General Strike of 1926 there has been neither a national strike nor a lock-out in the industry.

Well, there you are. It's not my job, fortunately, to sum up and come to any final decision. Copies of the booklet, if you would like the full story, from *The Cement Makers' Federation*, Terminal House, 52, Grosvenor Gardens, London, S.W.1.

MOSAIC WOOD FLOORING

After some years of experiment and testing, a new type of mosaic wood flooring is now being produced under the trade name of Marquetone.

Consisting of 75 per cent. hardwood chips set in a patent bonding matrix, the flooring has something of the appearance of a marble terrazzo finish and combines a warmth of touch and resiliency not usually found in similar types of flooring.

By making the chips of different hardwoods and setting them in different colour matrices, various designs and patterns can be laid. Furthermore, by the special treatment and orientation of the wood chips in a multitude of different directions in the matrix, this flooring has maximum resistance to abrasive wear, combined with no lines of weakness, and can be laid, *in situ*, directly on to old or new concrete, wood or tiles. Marquetone has also the great advantage of being fire-resisting, and is suitable for use

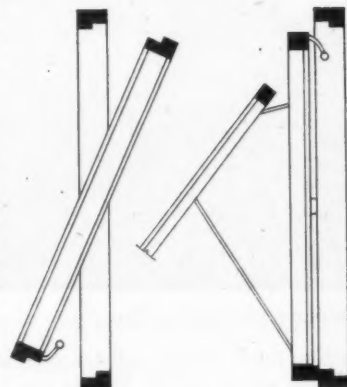
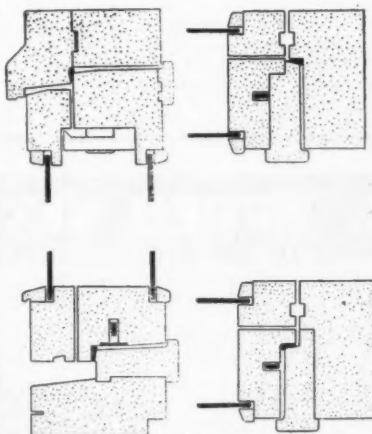
with under-floor heating. By reason of a hygienic, smooth and continuous surface, its maintenance is simply a matter of an application of wax polish from time to time, and an occasional rub over with a damp cloth.

Prices vary from 30s. to 35s. per square yard for normal straightforward jobs, but for small areas, etc., an extra percentage is added accordingly.

A report by the DSIR comments that "this floor has now been in use for approximately six months during which time it is estimated that 184,000 persons have crossed it. It has received light maintenance—sweeping and occasional washing but no polishing—and since it is in the entrance to a canteen has occasionally had milk churns rolled over it. The appearance is unaltered from the time of laying, apart from the removal of the polish." (*Chittenden & Simmons Ltd., Diiton Place, Larkfield, Maidstone, Kent.*)

CONVECTION HEATERS

The Wellington Tube Works has recently introduced a range of wall and floor mounting convection heaters for use with high or low pressure hot water, or with steam. The heating elements consist of 13 gauge steel tubes with gills spaced for easy cleaning, each type of heater being available in double or single banks according to the heat output required. The photograph shows the floor mounting unit with the air inlet and outlet grilles at top and bottom. The front panel



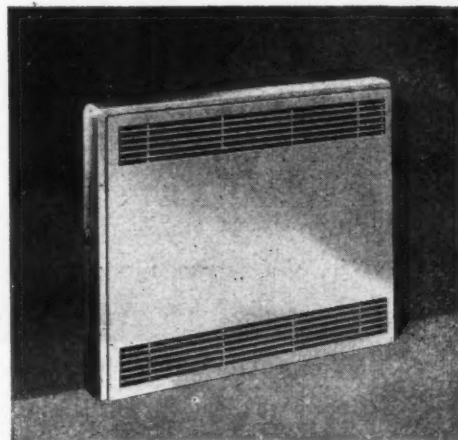
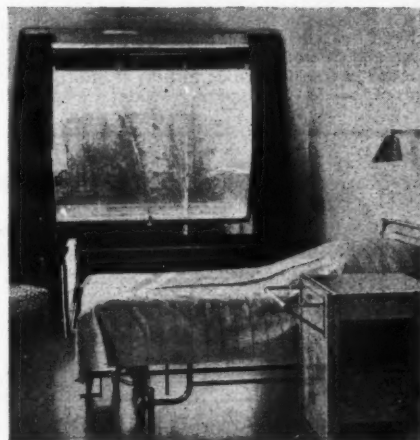
is easily removable, giving access to the inside of the casing for the concealed pipe connections, and there is a special sealing strip in the top cover of the casing to make certain that all the warm air is emitted through the grille and that discoloration of the wall is avoided. Heating surfaces vary from 11 to 52.6 square feet, the corresponding heat emissions are at 60 degrees F, room temperature being 3,850 and 18,410 B.Th.U. per hour. (*Wellington Tube Works Ltd., Great Bridge, Tipton, Staffs.*)

PUMPING LIQUIDS AND SOLIDS

A business-like publication from Ames Crosta Mills, sewage purification engineers, deals with their Pneu pump range.

This pump, claimed to be one of the simplest ever invented, is designed for pumping liquids containing solid matter, and viscous fluids such as oil, mud, treacle, paint, tar, acids, alkalis, molten metals, molten salts, slurries, sludge and abrasive liquids, at any temperature up to boiling point. It is made in a variety of models and sizes with a maximum output of 60 gallons per minute. A very small supply of compressed air is enough for all working needs, and as there are no moving parts, except a ball valve, it is claimed that this pump is trouble-free.

In addition to the standard models, there is a range in cast iron having advantages in some circumstances and for some corrosive



Top, left, a vertical section through the head and cill of the Swedish Carda Window; centre, a horizontal section above and below the central pivot; right, the window used in a hospital at Uppsala. Bottom, left, sections showing the window open and with the double sashes separated for cleaning; right, the Weldex Convector Heater.

liquors. There is also a model built throughout in chemical stoneware, another in stainless steel, and the rubber-lined and lead-lined models have special applications in the chemical industry. This publication covers the range very fully, and should be very useful to anyone who has any unusual liquids to move: it seems that these pumps will deal effectively with any liquid which will flow into them. (*Ames Crosta Mills & Co. Ltd., Heywood, Lancs.*)

DOUBLE GLAZED WINDOWS

Readers may remember seeing the Swedish Carda window at the 1947 Building Exhibition. At that time there was little to be said about it owing to the various import restrictions, but arrangements have now been made for it to be manufactured, in either hardwood or softwood, at Uxbridge, only the hinges and espagnolette bolts being imported. The marketing is in the hands of Holcon Ltd.

The window consists of a double glazed casement pivoted horizontally at its centre and able to rotate through 180 degrees for cleaning, the normal opening for ventilation being about 30 degrees. When turned for cleaning the casement opens into two sections so that the inner faces of the double glazing can be cleaned. It is also possible to fix a Venetian blind in between the panes of the double glazing, and this can be adjusted whether the window is open or closed, while in this position it is obviously far less liable to become the usual dust trap. At normal openings the window is held in position by its friction hinges; when closed the bolts hold it at four points at the top and bottom of the frame, a double rebate and sealing cords making it draught-proof, while the double glazing provides

good insulation against heat and sound. Sizes are flexible within a maximum area of 43 sq. ft., the maximum figures for width and height being 8 ft. 10 in. and 7 ft. 6 in. (*Holcon Ltd., 4, Drapers Gardens, Throgmorton Avenue, London, E.C.2*)

Buildings Illustrated

Temporary shop for Messrs. John Lewis & Co. Ltd. (Pages 308-311.) Designed by the Architect and Technicians of the John Lewis Partnership; Architect in Charge, R. H. Pearson. General Contractor: Messrs. John Lewis Building Ltd. Sub-contractors: joinery, electrical work, gas heating, decorations, Messrs. John Lewis Building Ltd.; fabrication of structural steel, Advance Welding Co. Ltd. (in association with Dr. Gottfeldt, M.INST.W., and Messrs. Steel Ceilings Ltd.); dismantling and erection of structural steel, Richard Abel (Steel Erectors) Ltd.; bricks (external facings), A. H. Herbert & Co. Ltd.; bricks (internal facings), Dunbrik Ltd.; asbestos roofing, E. H. Smith; precast concrete work (external and staircase), Malcolm McLeod & Co. Ltd.; asphalt (gutters, pavements and floors), Firezzi Asphalt; tubular work to show-windows, Carlton Metal Moulding Co. Ltd.; metal lettering, Signcrafts Ltd.; canopy edging, Bull (Ely) Ltd.; shop-window blinds, E. H. Fisher & Son; pavement lights, Haywards Ltd.; sanitary fittings, Associated Clay Industries Ltd.; glazing, H. & C. Davis & Co. Ltd.; Perspex to stair balustrading, Messrs. S. C. Errington (Hanwell)

Ltd.; plastering, Proberts Bros. Ltd.; ironmongery, Radiant Heating Ltd. (inc. Arthur Docking & Co.). Electrical fittings: fluorescent fittings (ground floor), Wembley Appliances Ltd.; counter fluorescent fittings (basement), Edison Swan Electric Co. Ltd.; tungsten fittings (basement), Harcourts Ltd.; spot lights and fluorescent louvers, Courtney Pope (Electrical) Ltd.; shop fitting (ground floor shelf units), Kandya Ltd.; metal display arms, Fredk. Sage (Display Fittings) Ltd.; metal work to show-window enclosures, Finney, Smiley & Co. Ltd.; chairs, Forward & Donnelly; paint, The Leyland Paint and Varnish Co.

New Factory at Gateshead on the Team Valley Trading Estate. (Pages 312-322.) Architects: F. R. S. Yorke, E. Rosenberg and C. A. Mardall. General Contractors: Thomas Clements & Sons. Sub-contractors: dampcourses, roofing felt, H. R. Vaughan & Co.; reinforcement, The Square Grip Reinforcement Co.; structural steel, Durham Steelwork Ltd.; steel decking, roofing felt, The Ruberoid Co.; patent glazing, Williams & Williams; flooring, Armstrong Todd, Commercial Marble & Tiles, Armstrong Cork Co., Denton & Co.; heating, ventilating, G. N. Haden & Sons; electrical installation, Reid Ferens; sanitary fittings, Stinson's Sanitary Fittings; pumps, Sigmund Pumps; door furniture, Dryad Metal Works; metal windows, Crittall Manufacturing Co.; clocking system, telephones, Telephone Rentals (Northern); rolling shutters, G. Brady & Co.; fireproof doors, John Tann; iron staircases, Wainwright & Waring; tiling, Commercial Marble & Tiles; canteen furniture, Pel; travelling cranes, Herbert Morris; "Pudlo" brand cement waterproofing, Kerner-Greenwood & Co. Ltd.

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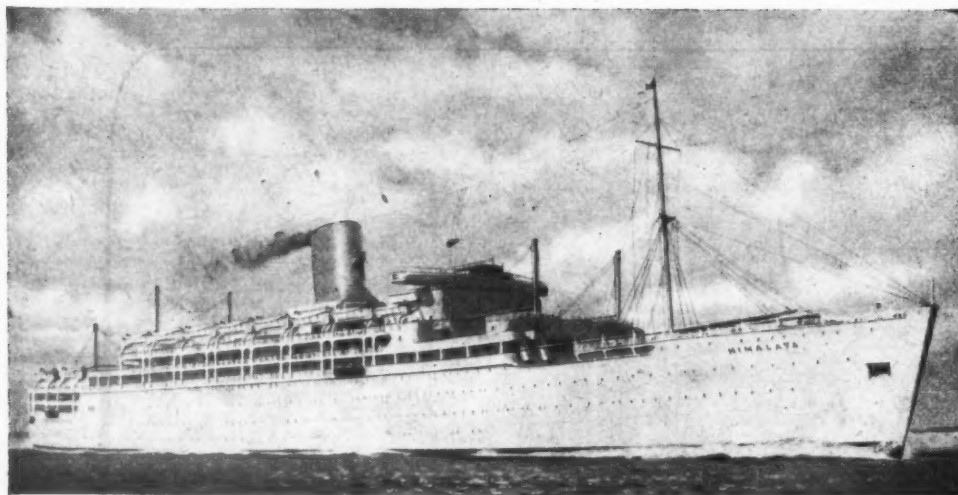
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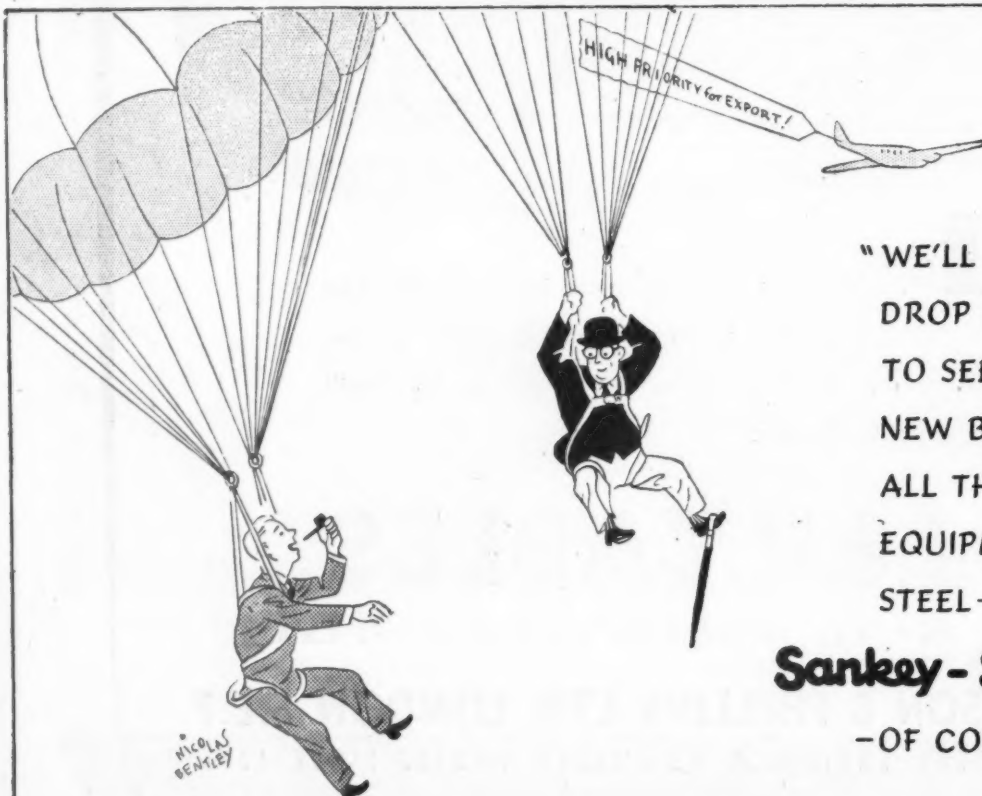
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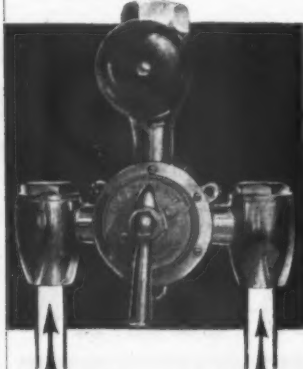
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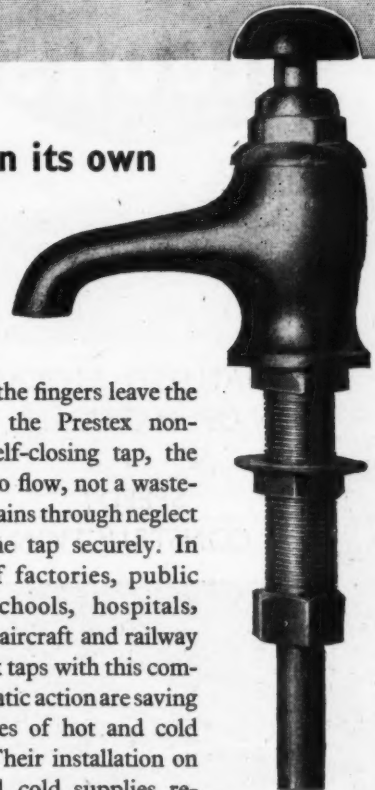
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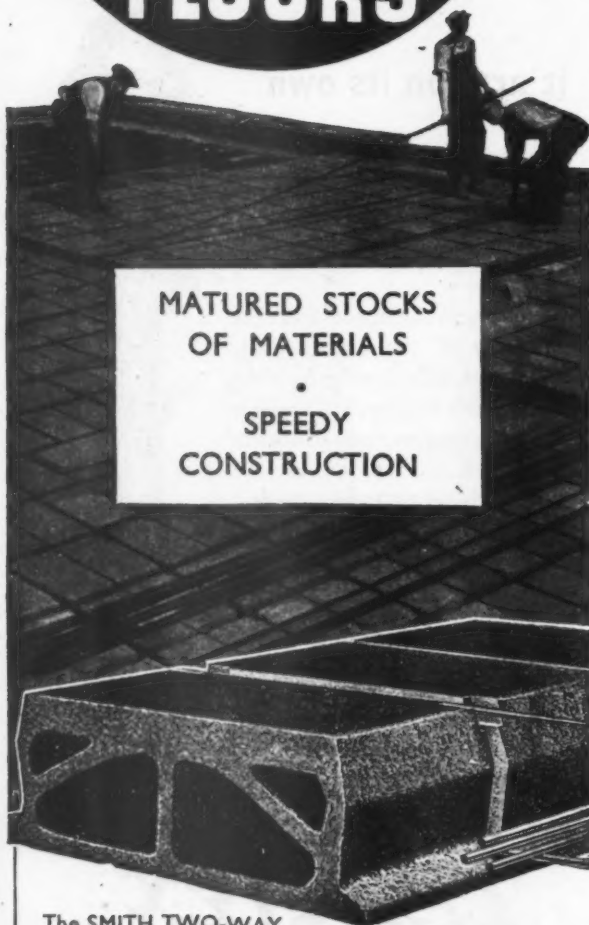
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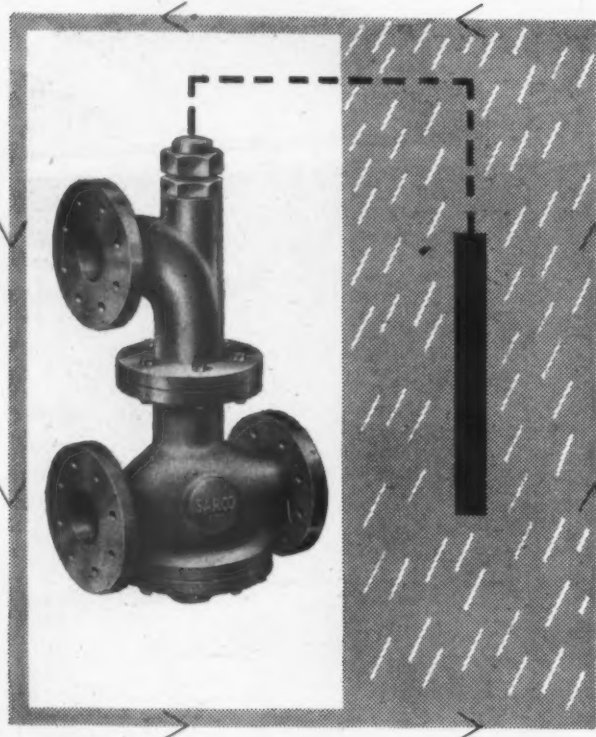


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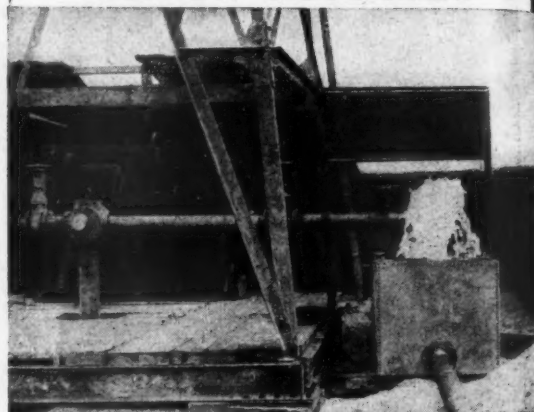
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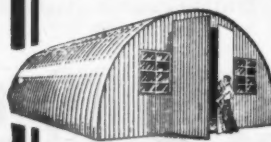
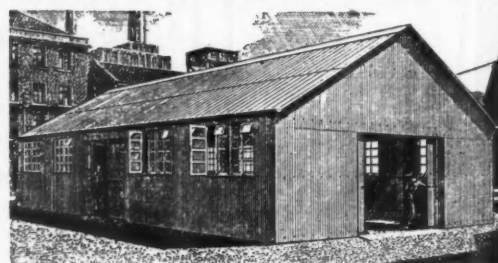
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Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

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LONDON COUNTY COUNCIL.

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

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

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

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION. The Essex County Council invite applications for a SECTIONAL ASSISTANT ARCHITECT in the Office of the Borough Engineer of Ilford. Applicants should be Members of the Royal Institute of British Architects, and have had considerable experience in the planning, designing, construction and supervision of School buildings and have had administrative experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade VII, £635 x £25 to £710, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Office, Town Hall, Ilford, together with copies of no more than three recent testimonials, within 14 days of the appearance of this advertisement. 2076

WARWICKSHIRE COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the established staff:—

ASSISTANT ARCHITECT. A.P.T., VI, £595-£660 per annum.

ASSISTANT ARCHITECTS. A.P.T., V, £520-£570 per annum.

ASSISTANT ARCHITECTS. A.P.T., IV, £480-£535 per annum.

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

Application forms can be obtained from C. H. Ekins, F.R.I.B.A., A.R.I.C.S., Shire Hall, Warwick.

L. EDGAR STEPHENS,

Clerk of the Council.

Shire Hall, Warwick. 2099

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

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

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.C.10/T, Ministry of Works, Abell House, London, S.W.1. 2065

BRECONSHIRE COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the following permanent posts in the County Planning Department:—

(a) ONE CHIEF PLANNING ASSISTANT. A.P. & T., Grade VI. Salary £595 per annum, rising by annual increments to £660 per annum.

(b) ONE PLANNING ASSISTANT. A.P. & T., Grade III. Salary £450 per annum, rising to £495 per annum.

(c) ONE PLANNING ASSISTANT. A.P. & T., Grade I. Salary £390 per annum, rising to £435 per annum.

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Applicants for appointment (a) should have passed or obtained exemption from the Final examination of the Town Planning Institute, and should have experience of development control and the preparation of development plans. Preference will be given to applicants who hold a qualification in Architecture.

Applicants for appointment (b) should have experience of survey for planning purposes and the preparation of development plans. They should preferably have passed or be exempt from the intermediate examination of the Town Planning Institute.

Each appointment will be subject to (i) the National Scheme of Conditions of Service, (ii) the provisions of the Local Government Superannuation Act, 1937, (iii) the passing of a satisfactory medical examination, and (iv) one month's written notice on either side.

As far as the appointments under (d) are concerned, the advertisement is inserted with the approval of the Ministry of Labour and National Service under the provisions of the Control of Engagement Order, 1947.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, must reach the undersigned not later than Tuesday, the 4th October, 1949.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

No housing accommodation for the successful applicants can be provided by the Council.

C. M. S. WELLS,

Clerk of the County Council.

County Hall, Brecon. 2086

SALOP COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

(1) SENIOR ASSISTANT ARCHITECT, to act as a Senior Section Head, on A.P.T., Grades VII-VIII (£635 to £760 per annum).

Applicants must be Registered Architects and Members of the R.I.B.A.

(2) ASSISTANT ARCHITECTS. A.P.T., Grades II-III (£420 to £495 per annum).

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

Application forms may be obtained from the County Architect, A. G. Chant, F.R.I.B.A., Column House, London Road, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 4th October, 1949.

G. C. GODBER,

Clerk of the Council.

Shrewsbury. 2078

BOROUGH OF NEWCASTLE-UNDER-LYME.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the whole-time appointment in the office of the Borough Engineer and Surveyor of SENIOR ASSISTANT ARCHITECT, A.P. and T. Division, Grade VI, £595-£660 per annum.

Applicants should have considerable experience in the design of new schools and general municipal work, and should preferably have passed the final examination of the Royal Institute of British Architects.

Housing accommodation, upon a service tenancy, will be available for the successful candidate if required, and full particulars may be obtained from the Borough Surveyor, Lancaster Building, High Street, Newcastle.

The appointment is subject to the National Scheme of Conditions of Service and to the provisions of the Local Government Superannuation Act, 1937, the successful applicant being required to pass a medical examination to the satisfaction of the Council's Medical Officer of Health. The appointment is terminable by one month's notice on either side.

Applicants must disclose whether to their knowledge they are related to any member of or the holder of any senior office under the Council. Canvassing in any form will be a disqualification.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs., should be forwarded to me not later than Monday, 3rd October, 1949.

C. J. MORTON,

Town Clerk.

District Bank House, Penkull Street, Newcastle, Staffs. 2122

LONDON COUNTY COUNCIL. QUANTITY SURVEYORS.

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

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

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

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifieds. (2140) 752

LONDON COUNTY COUNCIL.

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PLANNING OFFICER, Grade II, £700 to £840 a year.

PLANNING OFFICER, Grade III, £550 to £700 a year.

TECHNICAL ASSISTANT (a), £440 to £580 a year.

TECHNICAL ASSISTANT (b), 55s. to 157s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

Full particulars and forms of application obtainable from the Architect to the Council (A.R./P/P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). Canvassing disqualifieds. (193) 899

ANGLESEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

(a) ONE SENIOR ASSISTANT ARCHITECT. Salary Grade VII, commencing at £635 per annum and rising to £710 per annum. Applicants should be Registered Architects and Members of the Royal Institute of British Architects, with considerable experience in the design of Education buildings, supervision of technical staff, etc.

(b) ONE ASSISTANT ARCHITECT. Salary Grade IV, commencing at £480 per annum and rising to £525 per annum. Applicants should have had good experience in the preparation of working drawings, and preference will be given to applicants who have passed the Intermediate examination of R.I.B.A.

(c) ONE ARCHITECTURAL ASSISTANT. Salary Grade III, commencing at £450 per annum and rising to £495 per annum. Applicants should have had good architectural training and be good draughtsmen. The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be subject to one month's notice on either side. Candidates called for interview will be required to undergo a medical examination by the County Medical Officer.

Further particulars regarding the appointments may be obtained from the County Architect, N. Sq. Johnson, A.R.I.B.A., A.M.T.P.I., County Architect's Department, Shire Hall, Llangefni. Applications, stating age, training, experience, qualification, past and present appointments, names of two referees, and accompanied by a copy of one recent testimonial, are to be sent so as to reach the undersigned not later than Monday, the 3rd October, 1949.

WILLIAM JONES,

Clerk of the County Council.

Shire Hall, Llangefni. 2123

9th September, 1949.

MINISTRY OF EDUCATION.

Applications are invited for the following temporary posts in the Development Group of the Architects' and Building Branch:—

(i) QUANTITY SURVEYOR. Men, £1,050 x £35-£1,270; women, £900 x £30-£1,100.

(ii) ARCHITECTS. Men, £750 x £25-£1,000; women, £650 x £25-£850.

(iii) ASSISTANT ARCHITECTS. Men, £475 x £25-£750; women, £475 x £20-£650.

Candidates should be British subjects, and be fully qualified by examination. The work of the group requires a good appreciation of contemporary methods and a vigorous and constructive approach to the solution of current problems. Applicants for posts (i) and (ii) should have had considerable practical experience.

Applications, together with the names of two referees, should be addressed to ("K"), Technical and Scientific Register, York House, Kingsway, London, W.C.2, quoting reference number J.41/2/3/49/C.B. 2161

BOROUGH AND COUNTY OF THE TOWN OF POOLE.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments, viz.:-
(a) ARCHITECTURAL ASSISTANT. At present A.P.T. Grade II, £420-£465 per annum.
(b) ARCHITECTURAL ASSISTANT. Grade I, A.P.T., £390-£435 per annum.

Appointment (a) is on the permanent establishment and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a satisfactory medical examination.

Appointment (b) is a temporary appointment and will be for a minimum period of nine months. Applicants for both appointments should have had experience in connection with new schools and preference will be given to those with a recognized professional qualification.

Canvassing, either directly or indirectly, is forbidden.

All applications must be submitted to the undersigned, together with the names of three gentlemen to whom reference may be made, and with the envelope suitably endorsed, not later than Saturday, 1st October, 1949.

WILSON KENYON,

Town Clerk.

Poole, Dorset.

2156

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from persons who have passed the Intermediate Examination of the R.I.B.A. for a permanent appointment in accordance with Grade II, A.P.T. Division (£420-£465 per annum), or Grade III, A.P.T. Division (£450-£495 per annum) of the Consolidated National Scales, in accordance with the recent National Joint Council decisions.

Further particulars, including copy of the National Joint Council's decisions, may be obtained from Mr. F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than the 30th September, 1949.

T. C. HAYWARD,

Clerk of the County Council.

County Hall, Chichester.

2155

WARWICKSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:-

(a) THREE PLANNING ASSISTANTS. A.P.T., Grade IV (£480-£525 per annum).

(b) THREE PLANNING ASSISTANTS. A.P.T., Grade III (£420-£465 per annum).

The successful candidates will be engaged on the preparation of the County Development Plan and will be stationed at Warwick.

Applicants should have had experience in a Planning Office, and preference will be given to those candidates who have passed the Intermediate Examination of the Town Planning Institute.

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

Applications, together with one recent testimonial and giving the names and addresses of two persons to whom reference may be made, should be forwarded to J. J. Brooks, M.T.P.I., M.L.Mun.E., County Planning Officer, Northgate, Warwick, not later than Saturday, 8th October, 1949.

Canvassing, directly or indirectly, will be a disqualification.

L. EDGAR STEPHENS,

Clerk of the Council.

Shire Hall, Warwick.

2157

COUNTY BOROUGH OF NORTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT CLERK OF WORKS.

Applications for the above post, stating age, qualifications and experience, past and present appointments and salary, whether related to any member or senior officer of the Council, and giving names of two persons to whom reference may be made, should be delivered to J. L. Womersley, A.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, not later than 5th October, 1949.

The salary will be 7 guineas weekly, and candidates should have a sound knowledge of the building trade and must be thoroughly conversant with Bills of Materials, Specifications and Drawings, and be able to draft normal building reports.

Canvassing will disqualify.

C. E. VIVIAN ROWE,

Town Clerk.

Guildhall, Northampton.

2154

BOROUGH OF BARKING.

DEPARTMENT OF THE BOROUGH ARCHITECT.

Applications are invited for the established post of ASSISTANT ARCHITECT, Grade A.P.T., II. Salary £420, rising to £465 per annum, plus London weighting.

Terms and conditions of the appointment and forms of application, which are returnable to the undersigned not later than 5th October, 1949, may be obtained from the Borough Architect, Town Hall, Barking, Essex.

E. R. FARR,

Town Clerk.

Town Hall, Barking.

2144

COUNTY BOROUGH OF BIRKENHEAD.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments on the staff of the Borough Surveyor:-

(a) ARCHITECTURAL ASSISTANTS (TWO). Grade A.5, £520-£570.

(b) ARCHITECTURAL ASSISTANT (ONE). Grade A.2, £420-£465.

(c) ARCHITECTURAL ASSISTANT (JUNIOR) (ONE). Grade M.1, £315-£360.

Applicants for (a) should be preferably Members of R.I.B.A. and Registered Architects, and have a sound knowledge of Architectural design and construction, and be capable of preparing complete set of drawings and details, etc.

One appointment is required for School Buildings and one appointment for Housing and General works.

Appointments for (b) and (c) should be capable of preparing working drawings, details, etc., and have had reasonable architectural experience.

The posts are subject to the Local Government Superannuation Act, 1937, and the persons appointed will be required to contribute the appropriate percentage of their salaries to the Corporation's Superannuation Scheme.

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

Applications must be submitted in accordance with the instructions to be obtained from the Borough Engineer and Surveyor, Town Hall, Birkenhead. Completed applications must be submitted in a plain envelope endorsed "Architectural Assistant (a) or (b)," or "Junior Architectural Assistant," as the case may be, and delivered to me not later than the date specified on the form to be supplied.

DONALD P. HEATH,

Town Clerk.

Town Hall, Birkenhead.

September, 1949.

2166

COUNTY OF MONMOUTH.

COUNTY PLANNING COMMITTEE.

Applications are invited for the following appointments in the County Planning Department:-

(a) TWO JUNIOR PLANNING ASSISTANTS. Grade I. Salary £390, rising by annual increments of £15 to £435 (A.P.T., I).

(b) THREE DRAUGHTSMEN. Salary according to age-£135 at 16 years of age, rising by annual increments to £385 at 32 (General Scale).

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

Applicants for appointment (b) should be neat and expeditious draughtsmen, tracers and colourists, with experience of work on 1/2,500th and 6 in. to the mile ordnance maps. An elementary knowledge of land surveying and levelling will be an additional recommendation.

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

Applications, stating age, qualifications, training and experience, and giving particulars of past and present appointments, accompanied by copies of two recent testimonials, or in the case of H.M. Forces the names of two referees, and endorsed "Planning Assistant" or "Draughtsman," must be delivered to James Kegie, A.M.T.P.I., A.R.I.C.S., County Planning Officer, Cambria House, Caerleon, Mon., not later than 10th October, 1949.

VERNON LAWRENCE,

Clerk of the Council.

County Hall, Newport, Mon.

September, 1949.

2153

BOROUGH COUNCIL OF ENNISKILLEN.

APPOINTMENT OF ARCHITECTURAL STAFF.

The Borough Council of Enniskillen invites applications for the following posts in the Architectural and Planning Department:-

(1) ONE ASSISTANT ARCHITECT AND PLANNING OFFICER. The consolidated salary of the successful candidate will be fixed within the range of from £450 to £600 per annum, according to qualifications and experience.

(2) ONE ARCHITECTURAL ASSISTANT. The consolidated salary of the successful candidate will be fixed within the range of from £350 to £450 per annum, according to qualifications and experience.

The persons appointed will be engaged on the preparation of plans, etc., for the Council's Housing Schemes, Planning Schemes, and other public work.

The appointments will be on a temporary basis, but as far as can be foreseen will last for several years, and may be terminated at any time by one month's notice in writing on either side.

Preference will be given to suitably qualified ex-Servicemen.

Applications, stating age, and giving full particulars of qualifications and experience, together with copies of two recent testimonials, to be delivered to the undersigned not later than 12 noon on Saturday, 1st October, 1949.

NOBLE J. CONNOR,

Town Clerk.

Town Clerk's Office, Town Hall,

Enniskillen, N. Ireland.

8th September, 1949.

2109

BOROUGH OF CHATHAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with Grade V of the A.P. and T. Division (£520-£570 per annum).

Applicants should have good architectural experience, and be competent to undertake the preparation of working drawings and details for housing schemes, including multi-storey flats. Preference will be given to Registered Architects.

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

The conditions of service will be those of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services.

Housing accommodation will be made available if required.

Applications, stating age, qualifications and experience, together with the addresses of two persons to whom reference may be made, should be forwarded to Mr. H. D. Peake, M.Sc.(Eng.), Borough Engineer and Surveyor, Town Hall, Chatham, not later than Tuesday, 27th September, 1949, envelopes being suitably endorsed.

Canvassing, either directly or indirectly, will disqualify.

ROWLAND NEWNES,

Town Clerk.

Town Hall, Chatham.

13th September, 1949.

2132

URBAN DISTRICT OF FELTHAM.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the temporary appointment of Architectural Assistant in the Engineer and Surveyor's Department, at a salary in accordance with the recent decisions of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services regarding the grading of Architectural Assistants (Grades III, IV or V of the National Scales), plus the appropriate London "weighting." Preference will be given to candidates who have had previous experience in the department of an Engineer and Surveyor to a local authority. The appointment will be subject to the National Scheme of Conditions of Service and to one month's notice in writing on either side.

Forms of application may be obtained from the undersigned, to whom they should be returned, accompanied by copies of two recent testimonials not later than the 3rd October, 1949.

Canvassing will disqualify, and applicants must disclose in writing whether, to their knowledge, they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,

Clerk of the Council.

Council Offices, Feltham, Middlesex.

10th September, 1949.

2108

ROAD HAULAGE EXECUTIVE.

THE ROAD HAULAGE EXECUTIVE are prepared to receive applications for the following post in the Department of the Chief Surveyor and Architect at Headquarters:-

DRAUGHTSMAN (Ref. S.36). Applicants, preferably qualified, must be able to carry out land and building surveys, be good draughtsmen, tracers and printers, and have experience in the keeping of plans and their records. Salary within the range £400-£500 p.a., according to qualifications and experience.

Applications are also invited for the under-mentioned post in the Divisional Offices indicated:-

TECHNICAL ASSISTANT (BUILDINGS) to the Divisional Surveyor at Bournemouth, Cardiff, Leeds, London, Manchester, Norwich (ref. S.37).

Applicants must be qualified members of a recognized professional institute and have experience of the management of a large number of scattered properties of all types but principally industrial. A sound knowledge of repairs, general maintenance specifications, small reconstruction work, dilapidations, builders' accounts, office administration, is required. Salary within the range £420-£525 p.a. (London £640-£850).

Applications, in duplicate, should state date of birth, qualifications, previous experience, present post and salary, the reference of the post and where applicable the Divisional Office in which interested, together with any other relevant information, including the names of two referees, and be sent to the Chief Staff and Welfare Officer, Road Haulage Executive, 222, Marylebone Road, London, N.W.1. Candidates selected for appointment will, where eligible, be expected to join a contributory superannuation scheme and, in this respect, to comply with whatever provisions are decided upon later for the staff of the Executive as a whole.

13th September, 1949.

GMB/BAM

2148

LONDON COUNTY COUNCIL.

BRITTON SCHOOL OF BUILDING,

FERNDALE ROAD, S.W.4.

Required, to commence as soon as possible, Part-time Day and Evening TEACHERS of Building Construction and allied subjects.

Applications (stamped addressed foolscap envelope necessary) should be made to the Secretary at the School. (1075)

2174

GLAMORGAN COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the County Architect's Department:—

- (a) SENIOR ASSISTANT ARCHITECT. A.P. and T., Grade VIII (£685-£760).
- (b) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P. and T., Grade VIII (£685-£760).
- (c) ASSISTANT QUANTITY SURVEYOR. A.P. and T., Grade IV (£480-£525).

Candidates for (a) must be Registered Architects and/or Associates of the Royal Institute of British Architects; they should have had good training and adequate experience in the design, construction and maintenance of all types of County Buildings controlled by a large authority, particularly in connection with School Buildings. For post (b) candidates must be Chartered Quantity Surveyors of the Royal Institution of Quantity Surveyors (Quantity Section) and have had experience in the preparation of estimates, bills of quantities, specifications, etc., taking off quantities for variations, and measuring up for and preparing interim and final accounts for settlement on contracts.

Candidates for post (c) must have passed the Intermediate examination of the Royal Institution of Chartered Surveyors (Quantity Section). Candidates must not be over 60 years of age, but this condition may be relaxed in the case of a person already in the service of the authority, or a specially suitable candidate employed by another authority. In the case of ex-Service applicants, the age limit will be raised by the number of years served in H.M. Forces during the late war.

The appointment is subject to the National Scheme of Conditions of Service for Local Authorities Staffs, to the Staffing Regulations of the County Council in force from time to time, to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side.

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

Application forms for these appointments may be obtained from L. E. Gower, F.R.I.B.A., County Architect, County Hall, Cardiff, to whom applications must be returned in sealed envelopes, appropriately endorsed, not later than the 30th September, 1949.

Canvassing, either directly or indirectly, will disqualify.

An officer maintaining a home elsewhere and who is unable to obtain suitable accommodation, may be granted a lodging allowance of £75 per annum for a period not exceeding six months.

A. CLIFFORD WALTER,
Deputy Clerk of the County Council.
Glamorgan County Hall, Cardiff. 2128
12th September, 1949.

AMENDED ADVERTISEMENT.
WILLENHALL URBAN DISTRICT COUNCIL.
APPOINTMENT OF HOUSING ARCHITECT.

The Council invite applications for the appointment of Housing Architect.

Candidates must be at least Associates of the Royal Institute of British Architects, and have had wide experience in architectural design and construction, particularly in relation to the building of houses.

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

The Council will be prepared to consider the provision of housing accommodation for the successful applicant.

Applications, stating age, qualifications, present and previous appointments, grade or salary required, particulars of experience, the names of three persons to whom reference can be made, and whether the candidate is to his knowledge related to any member or senior officer of the Council, must reach me not later than Monday, 10th October, 1949.

Canvassing will disqualify.

JOHN R. RIDING,
Clerk of the Council.
Town Hall, Willenhall, Staffs. 2127

MIDDLESEX COUNTY COUNCIL.

SIX PLANNING ASSISTANTS (A.P.T., VI, £625, rising to £690 p.a., if 26 years or over).

Applications should possess experience of planning practice and hold a professional qualification; preference will be given to qualifications in planning, architecture, surveying or engineering. Established, pensionable posts, subject to medical examination, and prescribed conditions of service. Applications in writing, stating age, experience, qualifications, etc., with copies of three recent testimonials, to the undersigned by 21st October, 1949 (quoting G.60 A.J.). Canvassing disqualifies.

C. W. RADCLIFFE,
Clerk of the County Council.
Middlesex Guildhall, Westminster, S.W.1. 2121

CORPORATION OF KIRKCALDY.

CLERK OF WORKS FOR NEW MUNICIPAL BUILDINGS.

Applications are invited for the above post. Salary £8 8s. per week. Applications will be considered only from those with considerable practical experience of similar work.

Applications (which must be submitted upon the prescribed form obtainable from the undersigned), accompanied by copies of two recent testimonials, to be lodged with the undersigned not later than noon on 15th October 1949.

CHARLES D. CHAPMAN,
Town Clerk. 2187

EAST GRINSTEAD URBAN DISTRICT COUNCIL.
ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of a TECHNICAL ASSISTANT (Temporary), in the Engineer and Surveyor's Department, at a salary equivalent to Grade I of the A.P.T. Division of the National Scheme (£330-£435). Applicants must possess experience in work connected with housing schemes, including the preparation of surveys, plans, quantities and estimates. The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. The appointment will also be subject to termination by one month's notice given in writing on either side. Applications, stating age, qualifications, training and experience, accompanied by copies of three recent testimonials, should be received by the undersigned not later than Tuesday, the 27th September, 1949, and endorsed "Technical Assistant". Applicants must state whether they are related to any member or senior officer of the Council. Canvassing, either directly or indirectly, will disqualify.

L. R. BENNETT,
Clerk of the Council.
Clerk's Office, East Court, East Grinstead. 2124

LONDON COUNTY COUNCIL.
BRIXTON SCHOOL OF BUILDING,
FERNDALE ROAD, S.W.4.

Required, to commence as soon as possible, Two Temporary Full-time TEACHERS OF BUILDING. Applicants should hold Higher National Certificates or Diplomas in Building or comparable technical or professional qualifications, possess good industrial experience, and be competent to teach Building Construction and associated subjects.

Applications (stamped addressed foolscap envelope necessary) should be made to the Secretary at the School (1073) 2107

URBAN DISTRICT COUNCIL OF HAYES AND HARLINGTON.
ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from suitably experienced persons regularly trained as Architects, for the appointment of Architectural Assistant, in the permanent establishment of the department, at a salary in accordance with A.P.T. Division, Grade IV (£480, rising to £525 per annum, plus appropriate London "weighting").

The appointment will be in the Architectural Section under the Architect. A considerable housing programme to include flats, maisonettes, shops with living accommodation, as well as two-storied dwelling houses, is at present in hand and proposed. Schemes of general building are desired for execution when circumstances permit.

Should the same be required, the Council may be able to assist the successful applicant in obtaining housing accommodation.

Applications, on forms which can be obtained, together with the conditions of the appointment, on receipt of a stamped-addressed envelope from the Engineer and Surveyor at the Town Hall, Hayes, Middlesex, should be returned to him duly completed not later than 3rd October, 1949.

A. E. HIGGINS,
Clerk of the Council. 2159

FIFE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL DRAUGHTSMAN. Applicants must have had experience in an Architectural Drawing Office and be quick and accurate Draughtsmen. Consolidated salary £350, rising by increments of £20 to £450 per annum. Medical test under Superannuation Scheme. Applications, stating age, experience, and qualifications, to be lodged with the undersigned not later than 30th September, 1949. No canvassing.

J. M. MITCHELL,
County Clerk. 2163

County Buildings, Cupar.

14th September, 1949.

NEWPORT COUNTY BOROUGH COUNCIL.

BOROUGH PLANNING DEPARTMENT.

Applications are invited for the following permanent positions:—

(1) ASSISTANT PLANNING OFFICER: Development Plan. A.P. and T., Grade VIII, £685 to £760 p.a.

(2) ASSISTANT PLANNING OFFICER: Survey, Research and Programme. A.P. and T., Grade VIII, £685 to £760 p.a.

(3) PLANNING ASSISTANT. A.P. and T., Grade III, £450 to £495 p.a.

Applicants for (1) and (2) must have had a good experience in the branch of planning technique specified, and must be Corporate Members by examination of the Town Planning Institute.

Applicants for (3) should be good draughtsmen and have had experience of general duties in a planning department.

The Council will consider providing suitable housing accommodation (if necessary) for the successful applicants.

Details of duties and forms of application to be obtained from me must be delivered not later than Saturday, 8th October, 1949.

H. F. ALSTON,
Borough Planning Officer.

Corn Exchange Chambers, Thomas Street, Newport, Mon. 2175

THE POLYTECHNIC, 309, REGENT STREET, W.1.
SCHOOL OF ARCHITECTURE, SURVEYING, AND BUILDING.

Applications are invited for posts as PART-TIME STUDIO MASTERS, in the Day School of Architecture.

Candidates must be Fellows or Associates of the Royal Institute of British Architects, and the Degree or Diploma of a fully recognized School of Architecture will be an advantage.

Forms of application may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

J. C. JONES,
Director of Education. 2115

DUNDEE COLLEGE OF ART—SCHOOL OF ARCHITECTURE.

The Governors of the Dundee Institute of Art and Technology invite applications for the position of JUNIOR LECTURER AND STUDIO INSTRUCTOR.

Applicants should be Members of the R.I.B.A. and should preferably be holders of a degree or diploma of a recognized School of Architecture.

Salary scales: Men, £375 by £15 to £610; women, £350 by £15 to £480, with placing according to qualifications and experience.

Applications should be lodged as soon as possible, and should be on the prescribed form, copies of which, with full particulars, may be obtained from the undersigned.

G. R. HALL,
Clerk and Treasurer. 2161

Bell Street, Dundee.

15th September, 1949.

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

Applications are invited for the following appointments:—

(1) QUANTITY SURVEYOR, Grade VII. £635

£710 per annum.

(2) SENIOR ARCHITECTURAL ASSISTANT, Grade V. £520-£570 per annum.

(3) ENGINEERING ASSISTANT, Grade III. £450-£495 per annum.

Applicants for appointment (1) should be experienced in the preparation of Bills of Quantities, the checking of Interim Valuations, and the settlement of Final Accounts. Preference will be given to Fellows or Professional Associates of the Surveyor's Institution (Quantity Surveyors' Section), and experience with a local authority will be regarded as an advantage.

Applicants for appointment (2) should have had considerable experience in the design of houses and the layout of housing estates. Preference will be given to Associates of the Royal Institute of British Architects.

Applicants for appointment (3) should have had considerable experience in a municipal engineer's office, and preference will be given to candidates holding qualifications of the Institution of Civil Engineers or the Institution of Municipal Engineers.

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

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

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided not later than 9 a.m. on Saturday, the 8th October, 1949.

C. V. THORNLEY,
Town Clerk. 2170

Town Hall, Burnley.

September, 1949.

BOROUGH OF PENZANCE.

APPOINTMENT OF DEPUTY BOROUGH ARCHITECT.

Applications are invited for the appointment of DEPUTY BOROUGH ARCHITECT, in the Borough Engineer's Department, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scheme of Salaries (£595 per annum, rising by annual increments of £20, £20, £25 to £650 per annum).

Applicants, who should be Members of the Royal Institute of British Architects, must be Registered Architects, and must have had experience in the design of housing estates, construction of houses by contract and construction of other public buildings.

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

Applications, endorsed "Deputy Borough Architect", stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be sent so as to reach me not later than Wednesday, 19th October, 1949.

D. J. BEATTIE,
Town Clerk. 2174

Municipal Buildings, Penzance.

17th September, 1949.

**DURHAM COUNTY COUNCIL.
EDUCATION COMMITTEE.
ERECTION OF TECHNICAL COLLEGE,
BILLINGHAM-ON-TEES.**

Tenders are invited from Contractors for the work required in connection with the above. The basis of tendering will be on a schedule of prices. Contractors who desire to tender should submit their names to the County Architect's Office, Court Lane, Durham, by not later than Thursday, the 29th September, 1949.

No pledge is given to accept the lowest or any tender.

G. R. CLAYTON, F.R.I.B.A.,
County Architect.

Court Lane, Durham.
15th September, 1949. 2176

CITY OF SALFORD.

Applications are invited for the appointment of SENIOR ARCHITECTURAL ASSISTANT, on the permanent staff (salary A.P.T., Grade VI, £595 to £660), in accordance with the Conditions of the National Joint Council.

Candidates should be Associates of the Royal Institution of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction and also be experienced in the management of building contracts.

The appointment will be subject to:—

(a) the provisions of the Local Government Superannuation Act, 1937;

(b) the passing of a medical examination;

(c) the Standing Orders of the Council.

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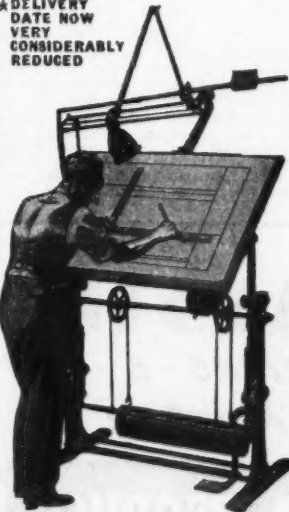
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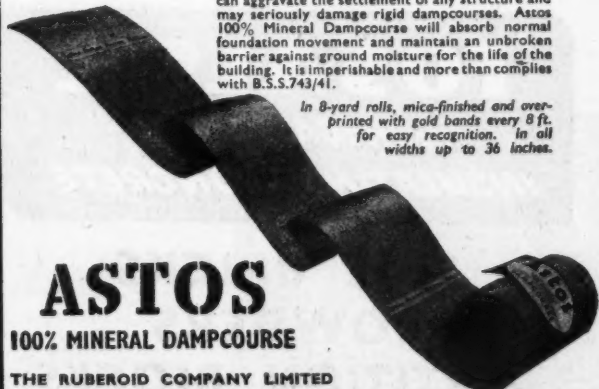


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Alphabetical Index to Advertisers

Aldas Electric, Ltd.	vi
Allied Glaziers & Chemists, Ltd.	liii
Associated Metal Works (Glasgow), Ltd.	lv
Anstun-Hall Group of Companies, The	xviii
Austin, James, & Sons (Dewsbury), Ltd.	
Bath Cabinet Makers & Artcraft, Ltd.	
Birmingham Alum Castings (1903) Co., Ltd.	xxvii
Blackburn, Thomas, & Sons, Ltd.	xxviii
Bratt Colbran, Ltd.	
Briggs, Wm., & Sons, Ltd.	xxv
Britannia Rubber & Kamptulicon Co., Ltd.	
British Aluminium Co., Ltd.	xxix
British Constructional Steelwork Association	xii
British Door Association	xlii
British Electricity Authority	
British Plaster Board, Ltd., The	
British Trane Co., Ltd.	
Bryant, C., & Son, Ltd.	v
Bryce White & Co., Ltd.	lv
Boulton & Paul, Ltd.	
Carter & Co., Ltd.	xv
Cattle, R., Ltd.	xxvi
Cement Marketing Co., Ltd., The	ix
Clark & Eaton, James, Ltd.	
Compacton, Ltd.	xlvii
Compression Joints, Ltd.	
Copper Development Assoc.	
Crittall Manufacturing Co., Ltd.	
Crittall, Richard, & Co., Ltd.	xxiii
Croft Granite, Brick & Concrete Co., Ltd.	
Dreadnought Fireproof Doors, Ltd.	xi
Ebor Concrete, Ltd.	
Efri Sales Organisation	
Ellis School of Building	liii
Ellison, George, Ltd.	liii
English Joinery Manufacturers' Assoc.	
Etchells, Congdon & Muir, Ltd.	xliii
Evans, William, & Co. (Manchester), Ltd.	xlvii
Excel Asphalt Co., Ltd.	lv
Ferodo, Ltd.	
Finch, B., & Co., Ltd.	xx
Galvo (Wire Netting), Ltd.	

Gaskell & Chambers, Ltd.	
General Electric Co., Ltd.	
Greenwood's & Airvac Ventilating Co., Ltd.	ii
Gypsum Mines, Ltd., The	xlvii
Hall, J. & E., Ltd.	
Harper, John, & Co., Ltd.	xiv
Harvey, G. A. & Co. (London), Ltd.	iii
Haskins Rolling Shutters	xxx
Helliwell & Co., Ltd.	
Henderson, P. C., Ltd.	
Higgs & Hill, Ltd.	xxi
Hills (West Bromwich), Ltd.	xxxvi
Hobart Manufacturing Co., Ltd.	
Hope, Henry, & Sons, Ltd.	xxxiv
Horseley Bridge & Thomas Piggott, Ltd.	
Hotpoint Electric Appliance Co., Ltd., The	xliv
Isstock Brick & Tile Co., Ltd.	
Imperial Chemical Industries, Ltd.	xi
Industrial Engineering, Ltd.	xxii
International Correspondence Schools	
Jaconello, Ltd.	xxxvii
Jenkins, Robt., & Co., Ltd.	
Johnson & Phillips, Ltd.	xxxix
Kerr-Greenwood & Co., Ltd.	xvii
Kingsfisher, Ltd.	vii
Le Grand, Sutcliffe & Gell, Ltd.	xlvi
Leslie & Co., Ltd.	xxxi
Lightfoot Refrigeration Co., Ltd., The	
Loft Ladders, Ltd.	
London Brick Co., Ltd.	iv
London Sand Blast Decorative Glass Works, Ltd.	iii
Mallinson, Wm., & Sons, Ltd.	
Marley Tile Co., Ltd., The	xxiv
Matthews & Yates, Ltd.	xxx
Mavitta Drafting Machines, Ltd.	ii
McCarthy, M., & Sons, Ltd.	liii
McNeill, F., & Co., Ltd.	
Metallic Seamless Tube Co., Ltd.	x
Midland Joinery Works, Ltd., The	
Midland Woodworking Co., Ltd.	xvi
Mills Scaffold Co., Ltd.	lvi
M.K. Electric, Ltd.	
Moler Products, Ltd.	lii
Morris, Herbert, Ltd.	liii
Morris Singer Co.	

Mumford, Bailey & Preston, Ltd.	
National Federation of Clay Industries	
Parkes, Josiah, & Sons, Ltd.	xxxi
Parkinson Stove Co., Ltd., The	xlvi
Peglers, Ltd.	liii
Pike, Douglas	
Pilkington Bros., Ltd.	
Pollard, E., & Co., Ltd.	
Pritchett & Gold & E.P.S. Co., Ltd.	
Prodorite, Ltd.	xli
Pynford, Ltd.	
Roller Shutters	xlv
Ruberoid Co., Ltd., The	ii
Sadd, John, & Sons, Ltd.	viii
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Sankey-Sheldon	xi
Santon, Ltd.	
Sarco Thermostats, Ltd.	xlvi
Scaffolding (Great Britain), Ltd.	
Sealcrete Products, Ltd.	ii
Seomastic, Ltd.	xlvi
Semtex, Ltd.	
Sharman, R. W., Ltd.	liii
Siegmart Floor Co., Ltd.	
Smith's English Clocks, Ltd.	xix
Smith's Fireproof Floors, Ltd.	xliv
Smith, Samuel, & Sons, Ltd.	
Standard Patent Glazing Co., Ltd.	
Stobart & Son, Ltd.	liii
Story & Co., Ltd.	xxxv
Sugg, Wm., & Co., Ltd.	
Sundeala Board Co., Ltd.	xlv
Thorn, J., & Sons, Ltd.	xlvi
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Wellington Tube Works, Ltd.	
Zinc Alloy Rustproofing Co., Ltd.	liv

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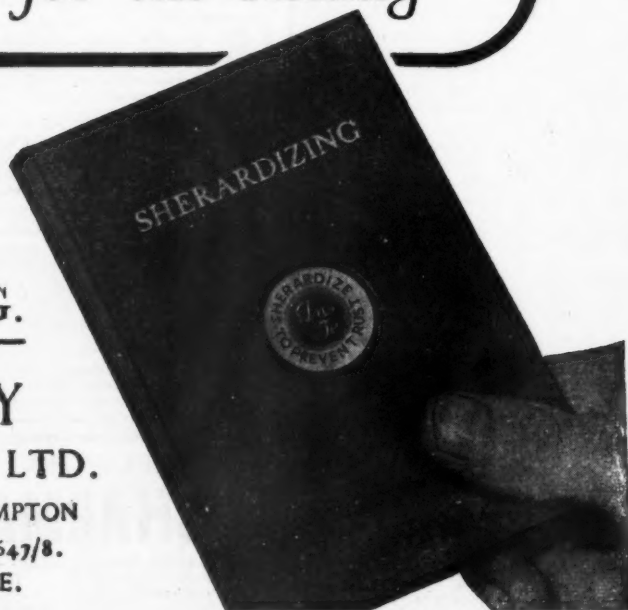
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viii

xi

xlvi

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xix
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xxv

xiv
xlii

lii
xxvi

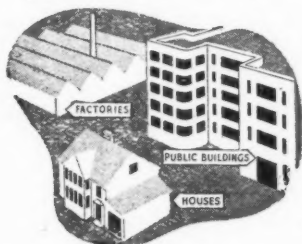
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xlii

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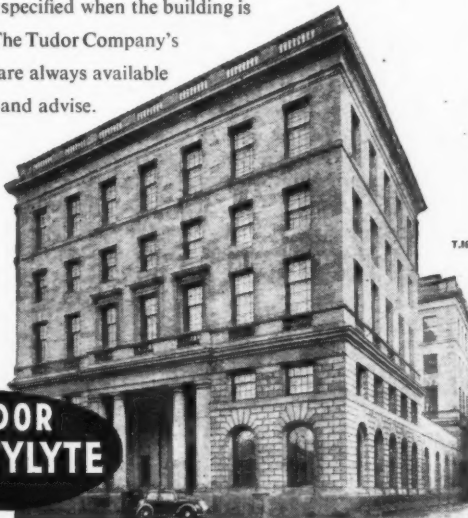
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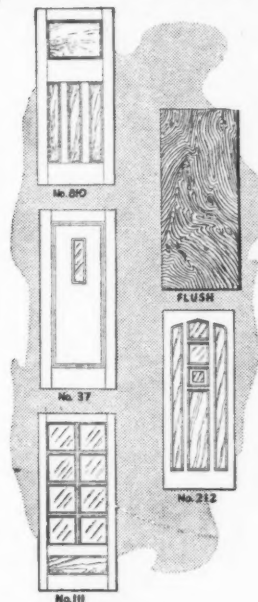
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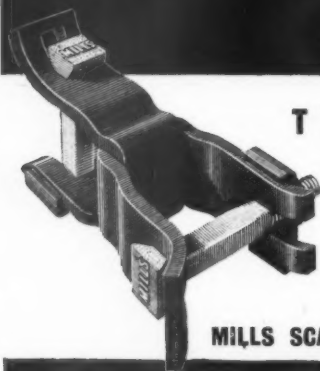
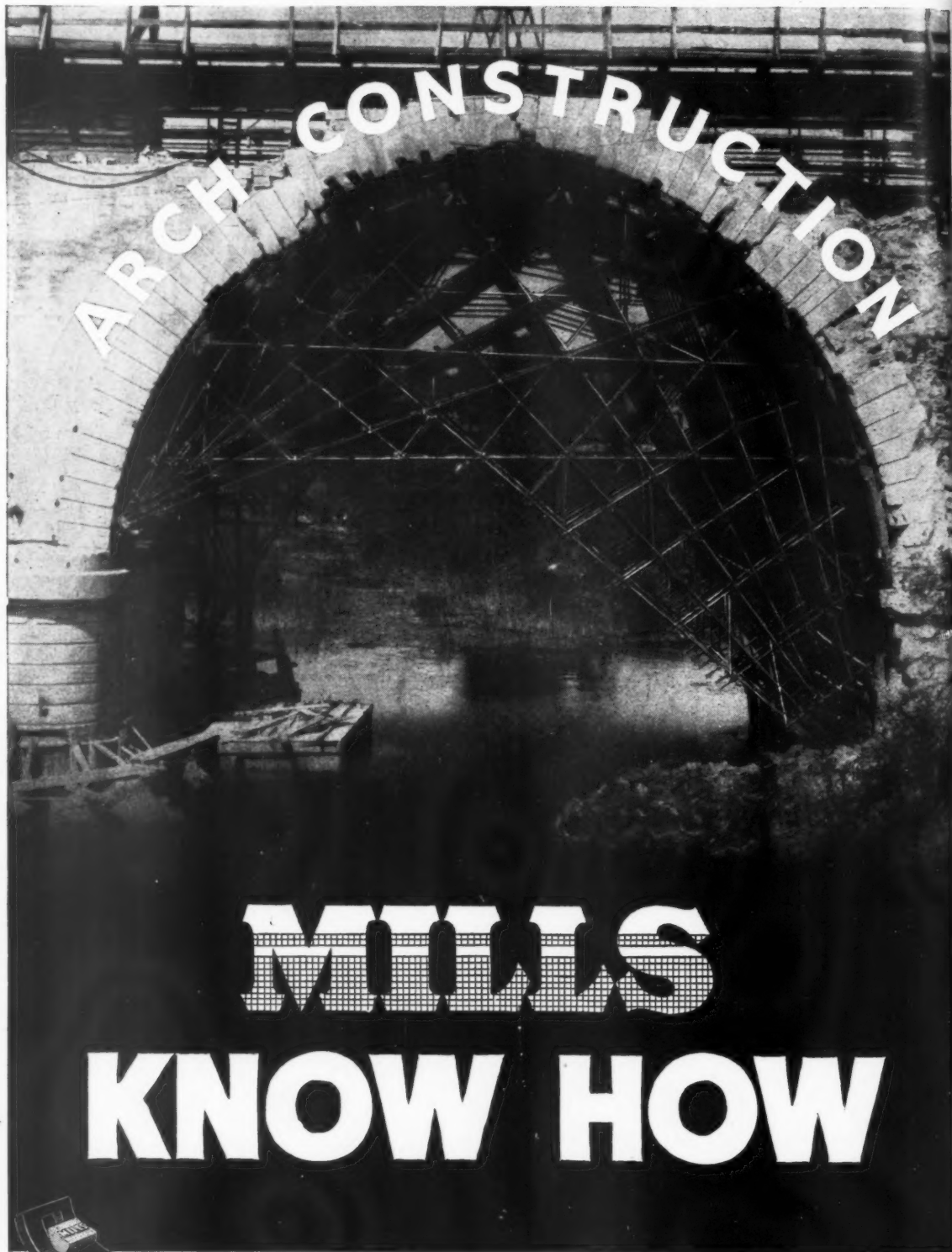
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