

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

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HOUSING STATISTICS

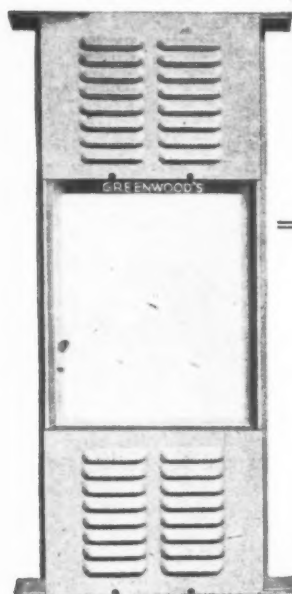
Architectural Appointments
Wanted and Vacant

★ 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 Ie one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley", Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4.	Brixton 7048
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	Grosvenor 4761
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Flaxman 7766
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Newport 3111
CAS	County Architects Society. C/o F. R. Steele, F.R.I.B.A., Courthouse, Chichester.	Chichester 3001
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderal, Zurich, Switzerland.	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280	
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	Victoria 1534
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reliance 1761
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub-Contractors. 21, Tothill Street, S.W.1.	Whitehall 9696
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Ilkeston 623
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Chancery 7583
FOB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Waterloo 1951
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Sloane 5615
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215

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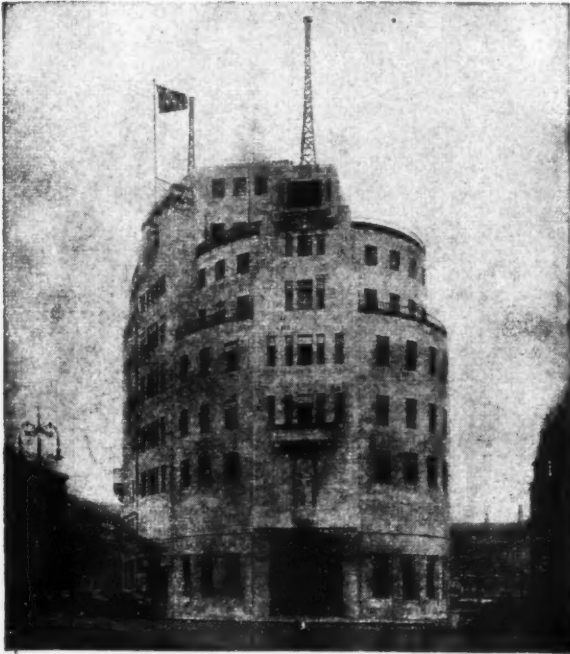
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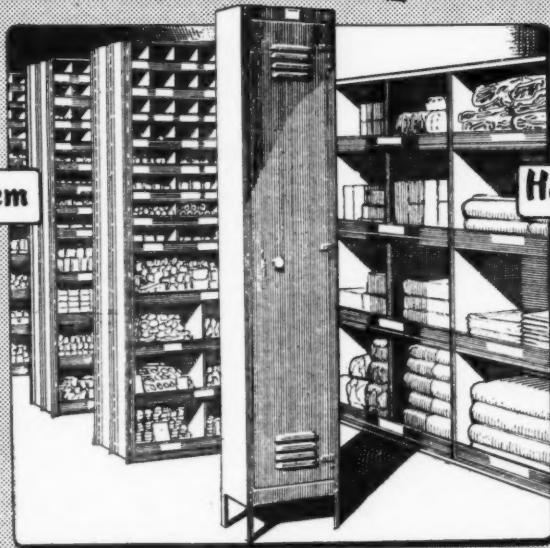
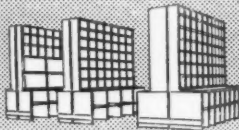
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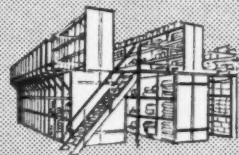
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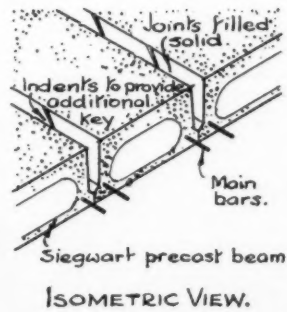
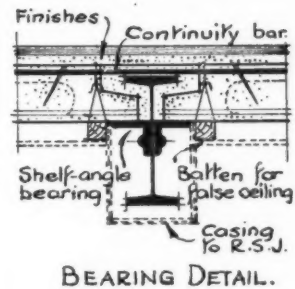
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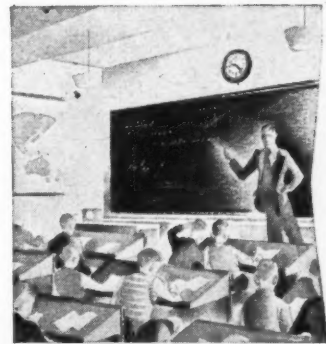
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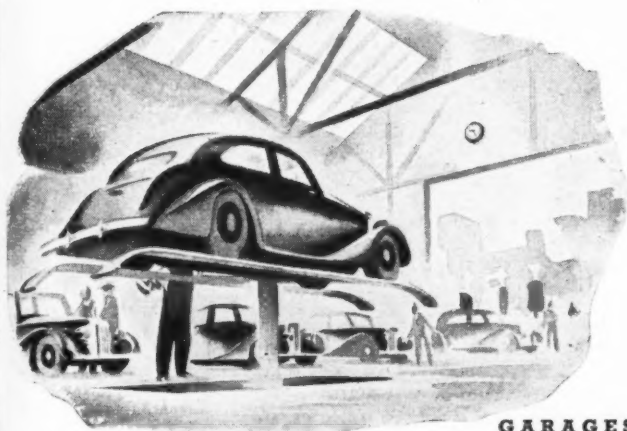
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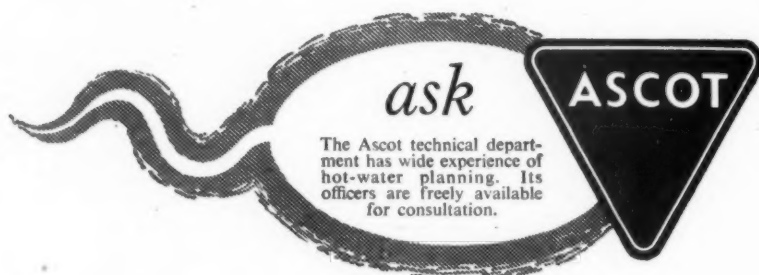
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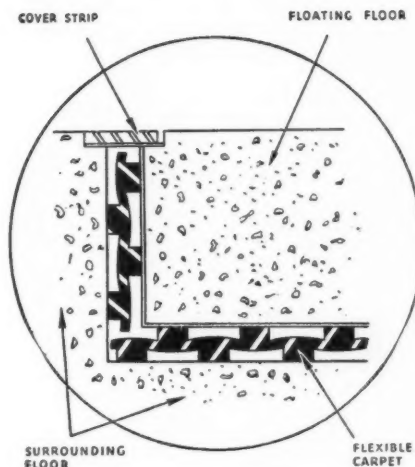
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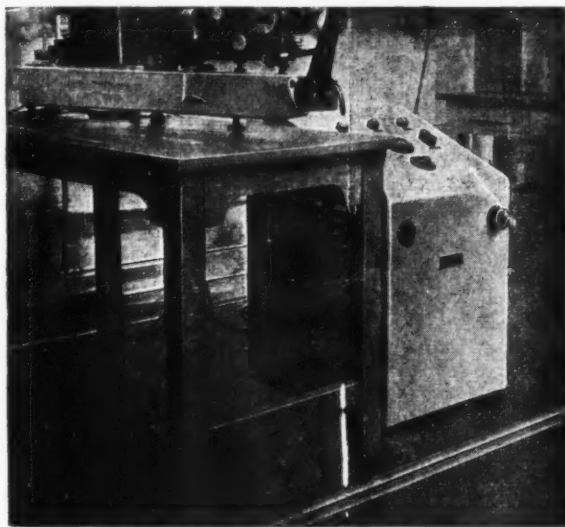
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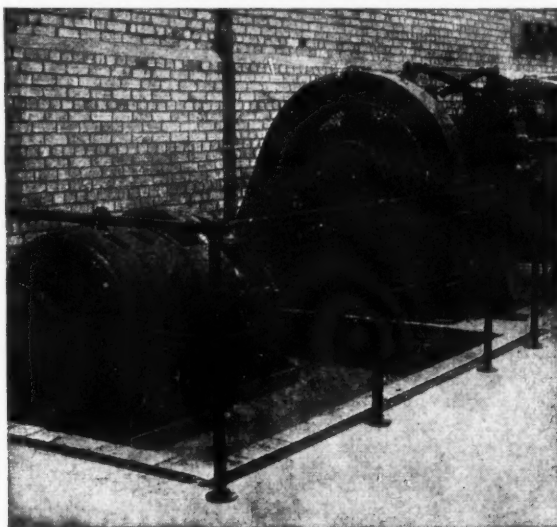
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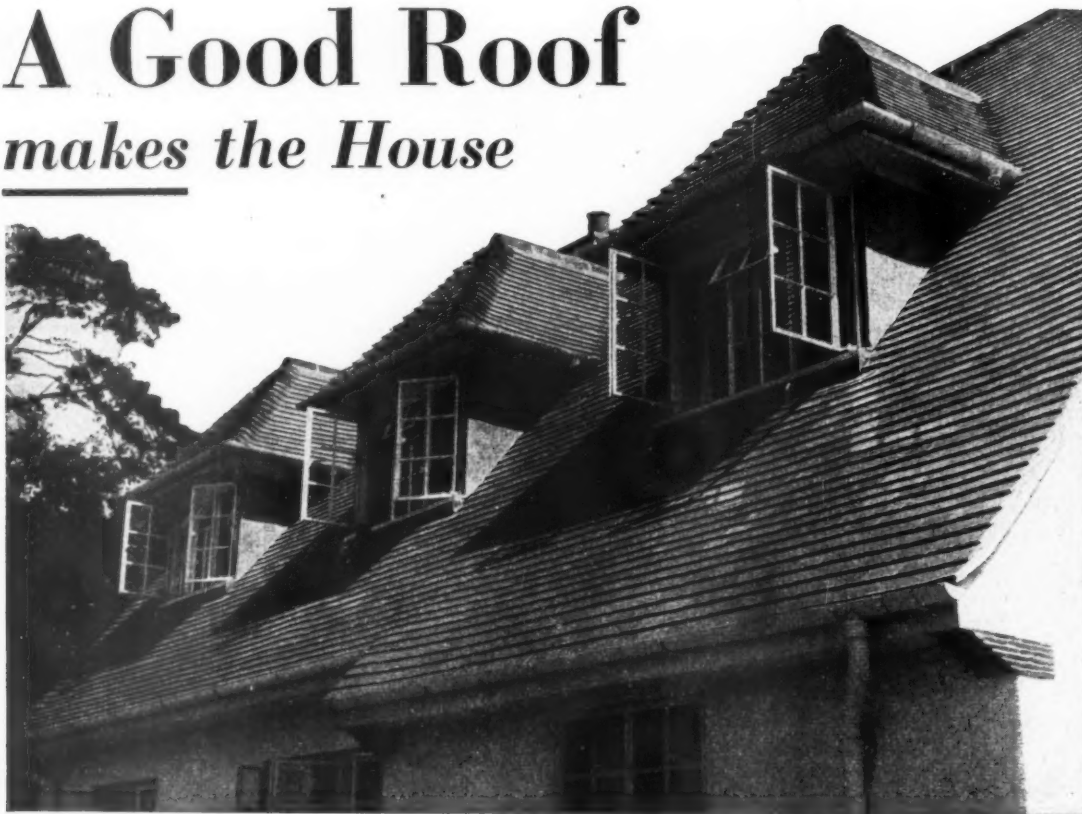
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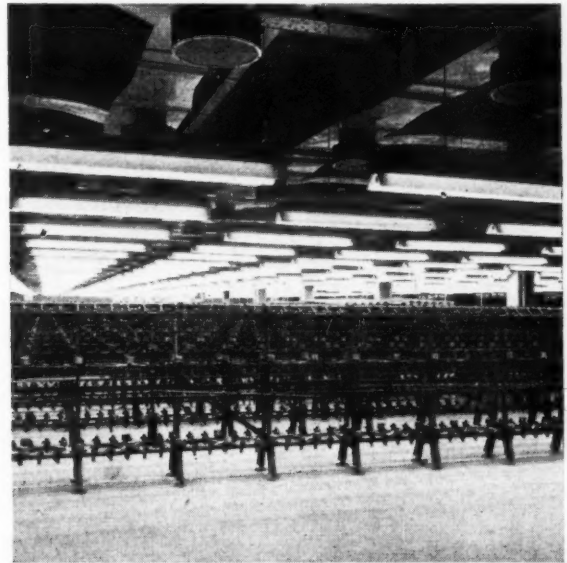


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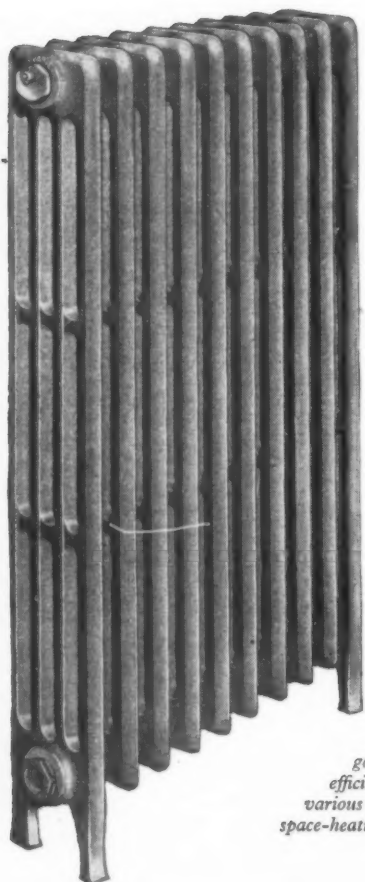


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FROM THE RAW MATERIAL TO THE FINISHED ARTICLE

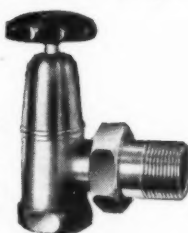


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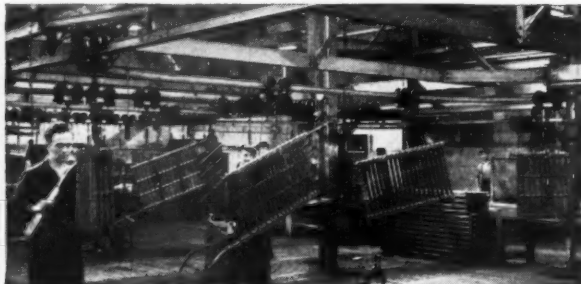
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Part of the foundry in which the radiator moulds are formed. Photograph shows cores being placed in position.



General view of the shop in which cores for Crane radiators are made.



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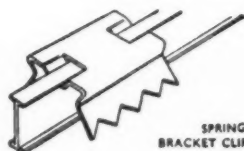
SPECIFY 'Rufflette' CURTAIN SUSPENSION SYSTEMS

BRAND

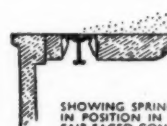
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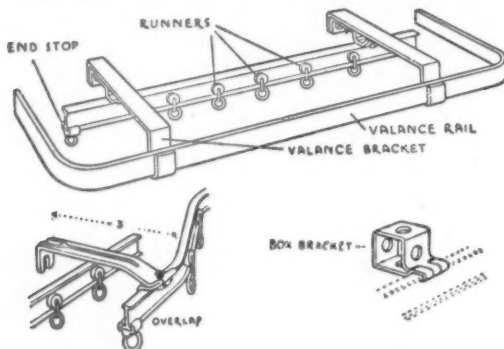
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'Rufflette' brand

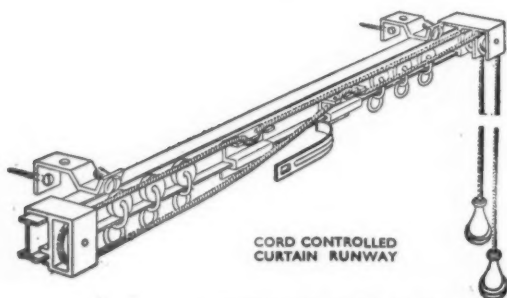
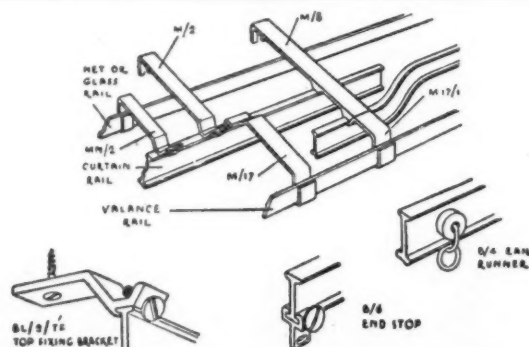
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This runway has been specially designed for wood frame windows. The construction is of heavy extruded brass, with top or face fixing brackets made specially for quick fitting and is therefore a valuable time-saving device. For strength, durability and easy running specify 'Rufflette' brand B/L Curtain Runway.

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CORD CONTROLLED
CURTAIN RUNWAY

'Rufflette' brand

CORD CONTROLLED CURTAIN RUNWAY

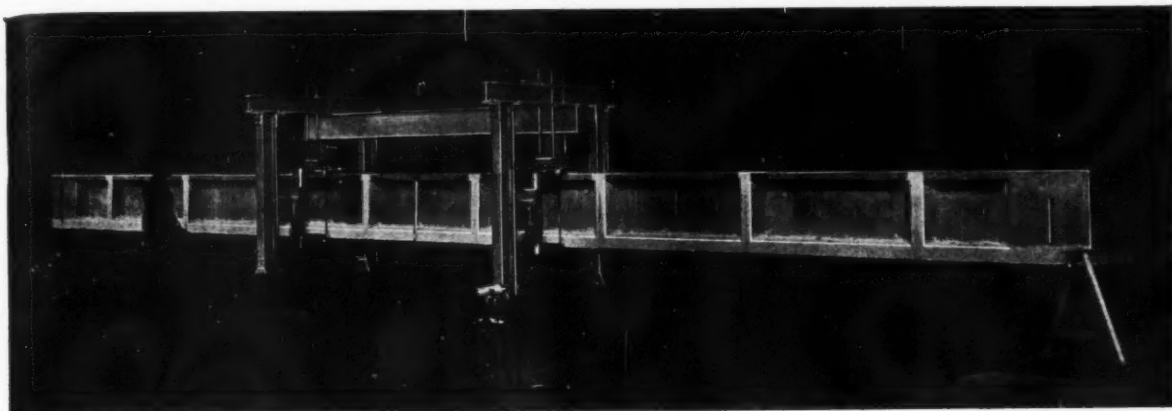
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Architect's Journal: the following Information Sheets are available and will be sent on request to manufacturers.
SHEET 44 D.1. ('RUFFLETTE' RECESSED RUNWAY). SHEET 44 D.2. ('RUFFLETTE' B/L and M Type Runways).

'Rufflette' BRAND

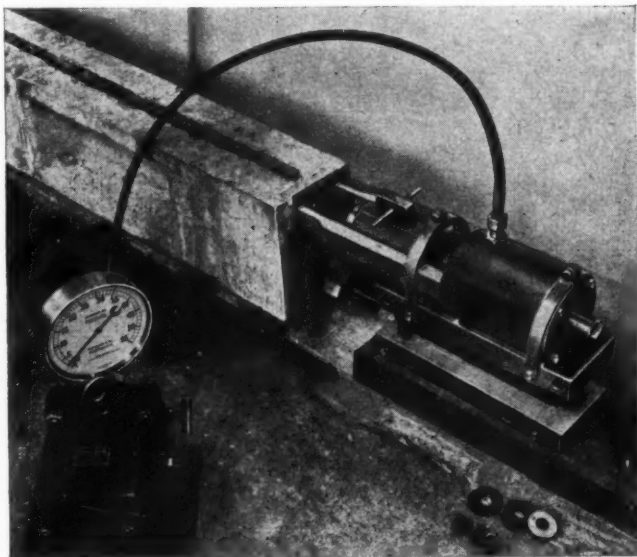
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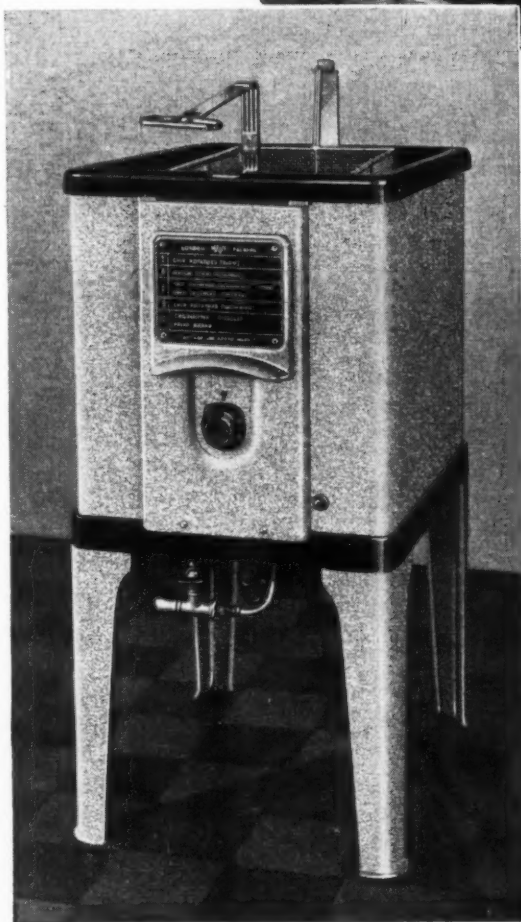
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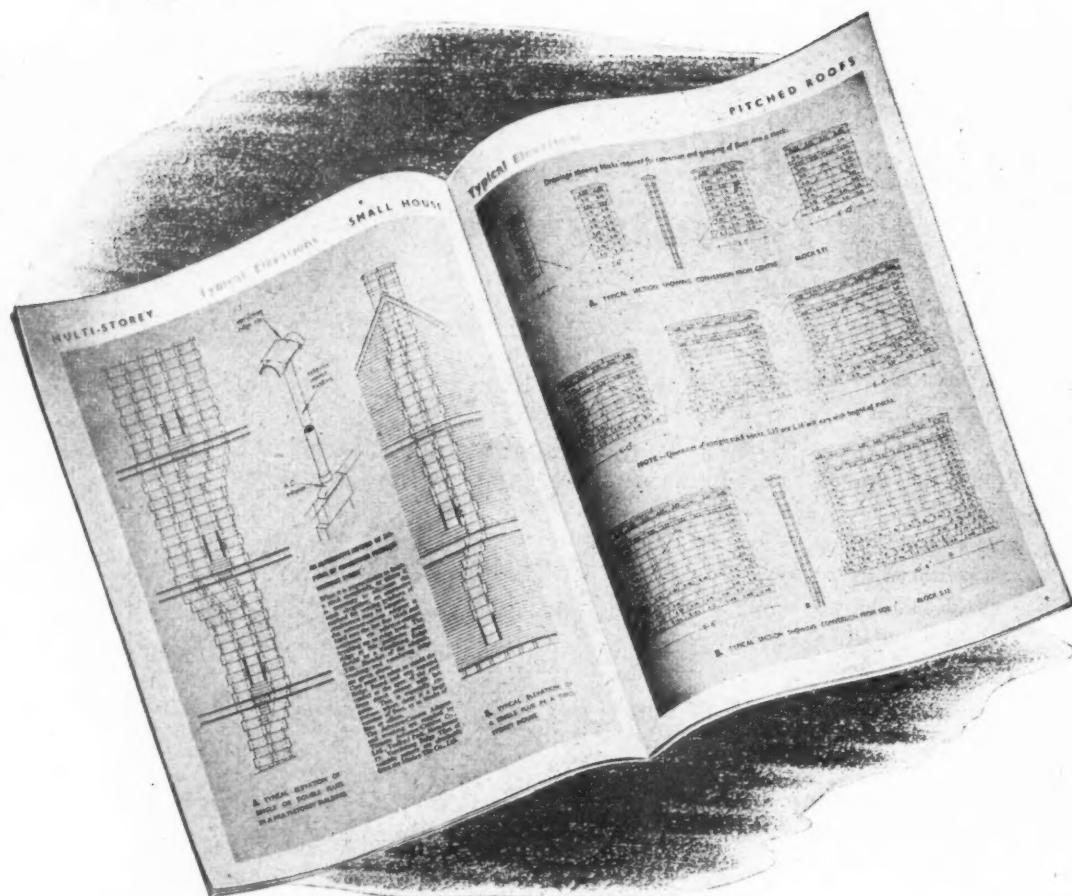
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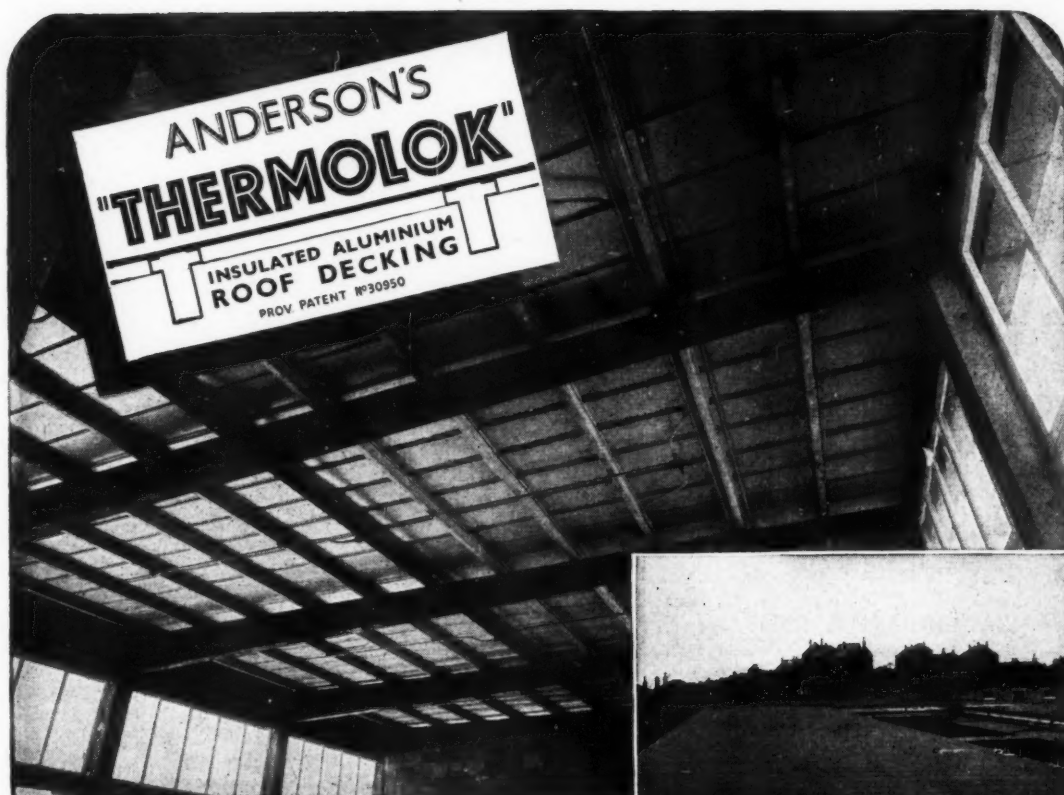
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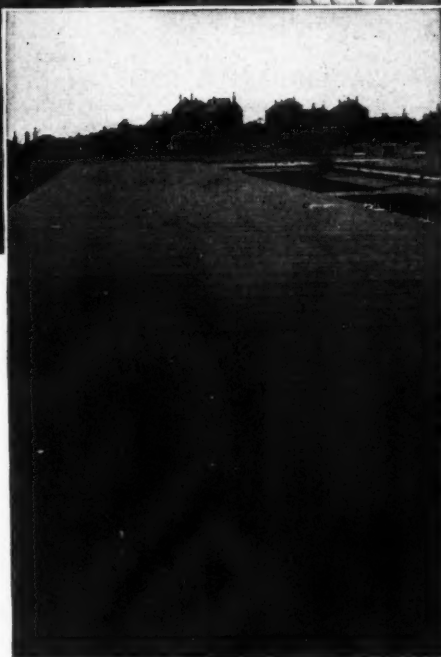
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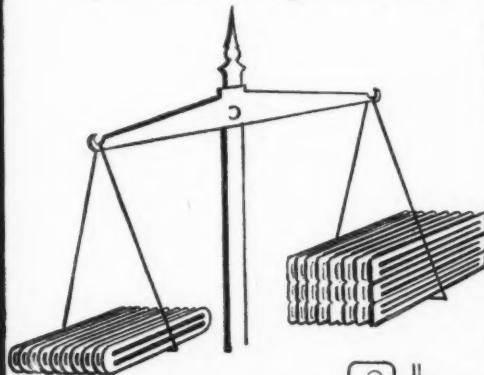


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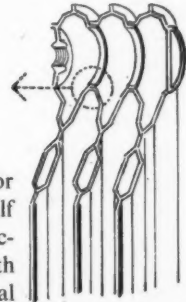
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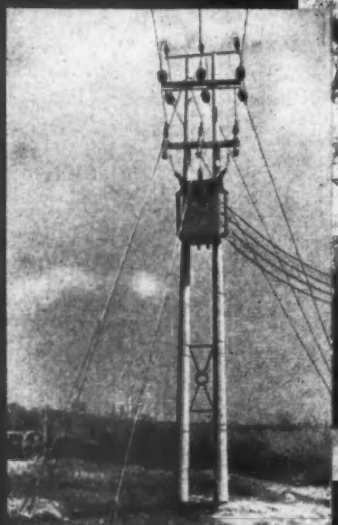
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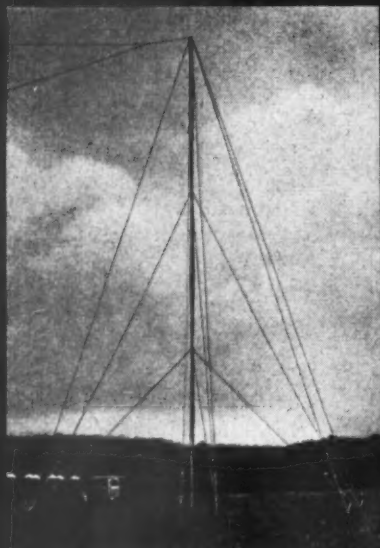
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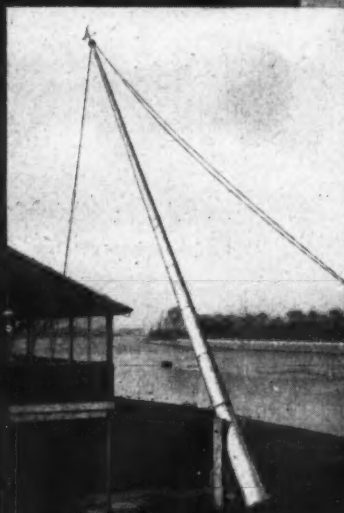
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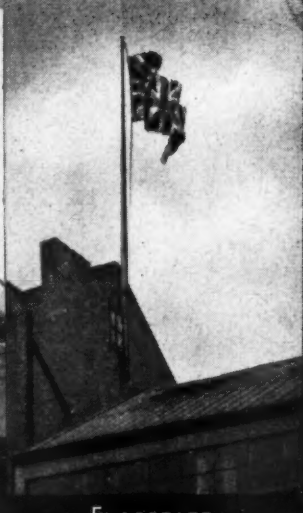
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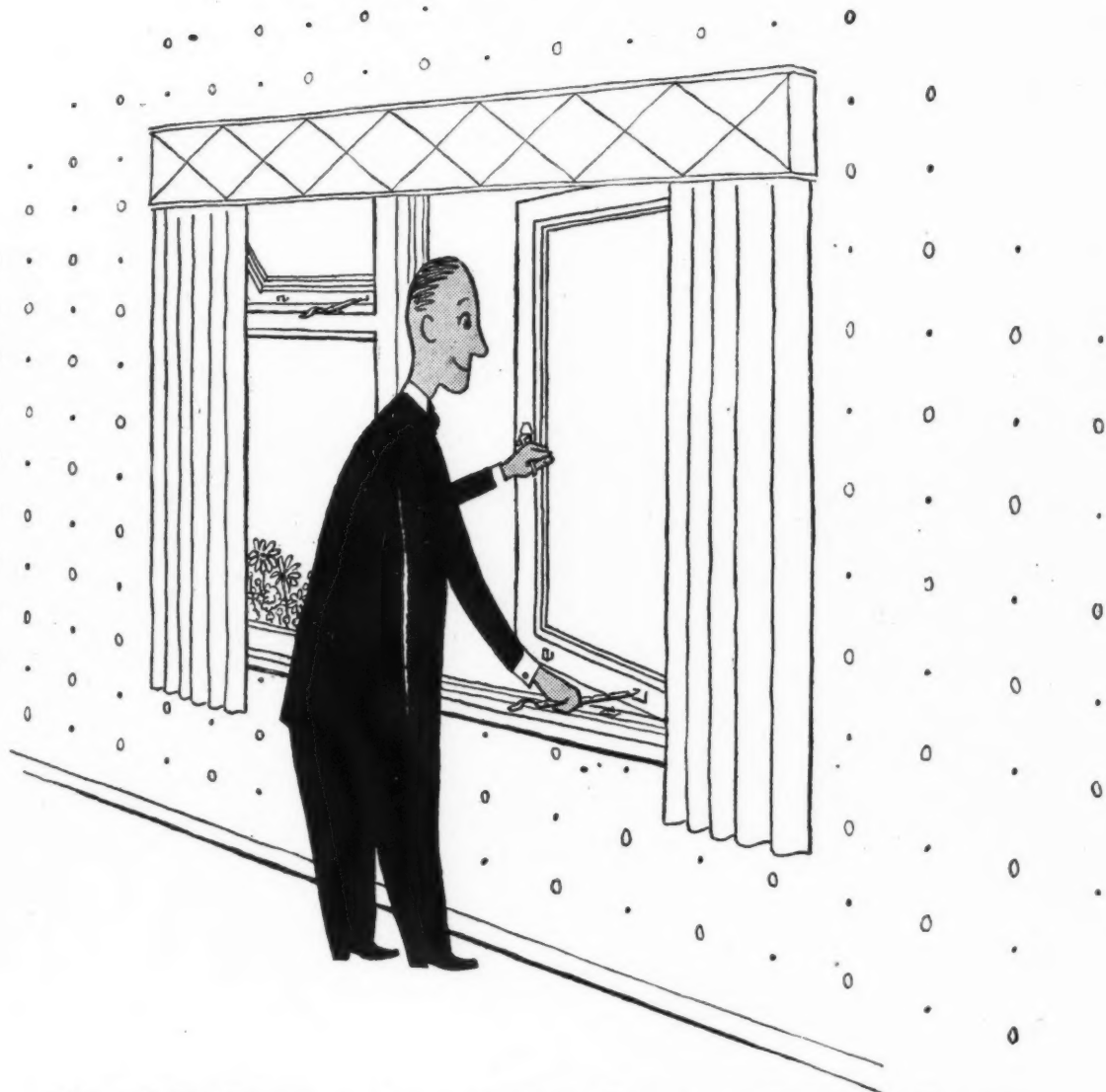


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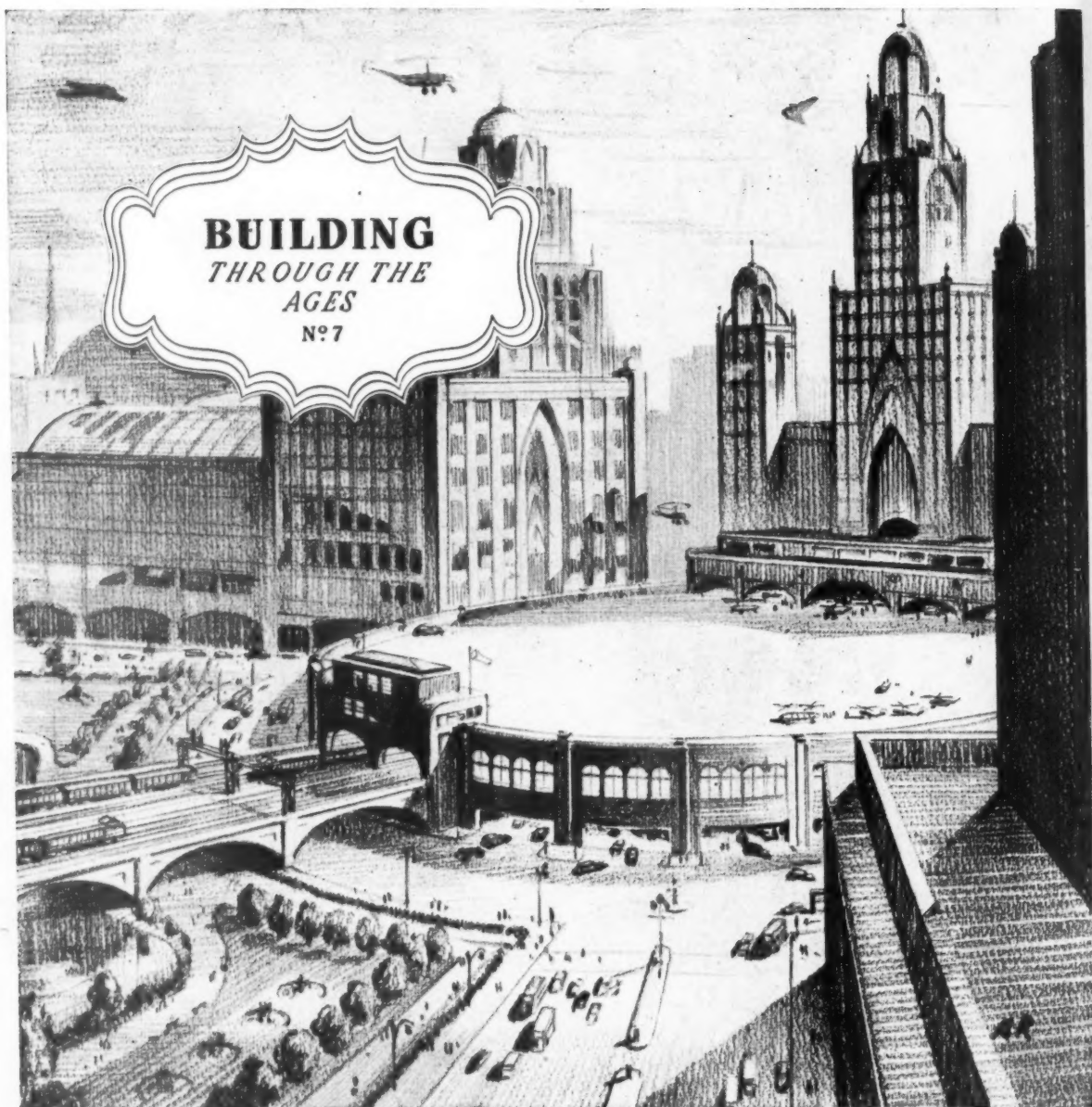
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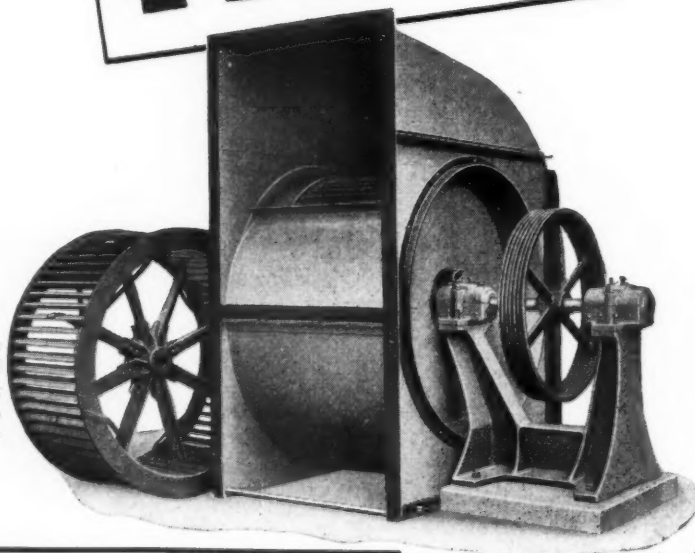
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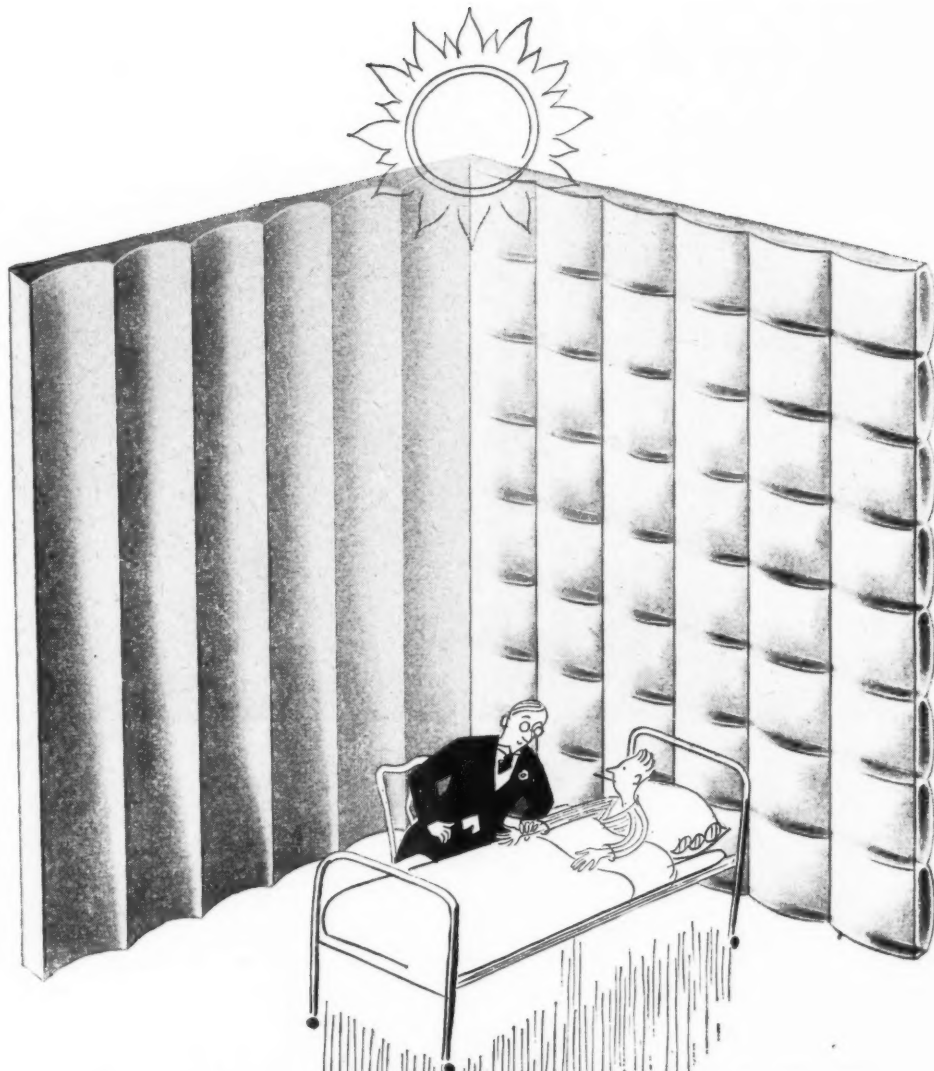
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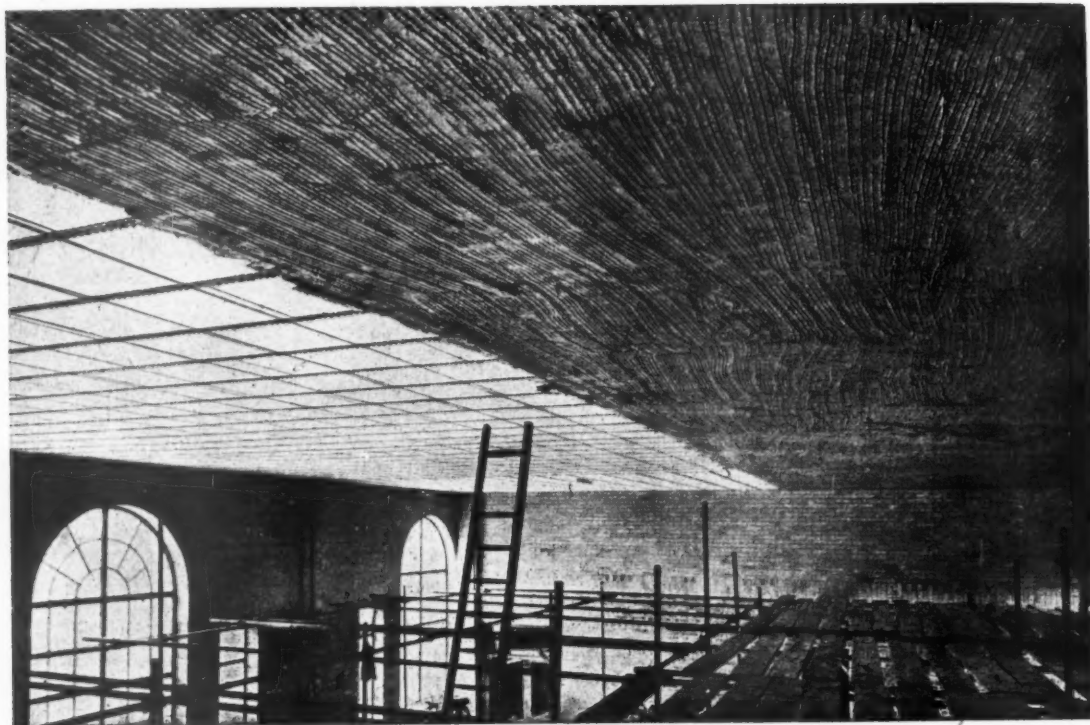
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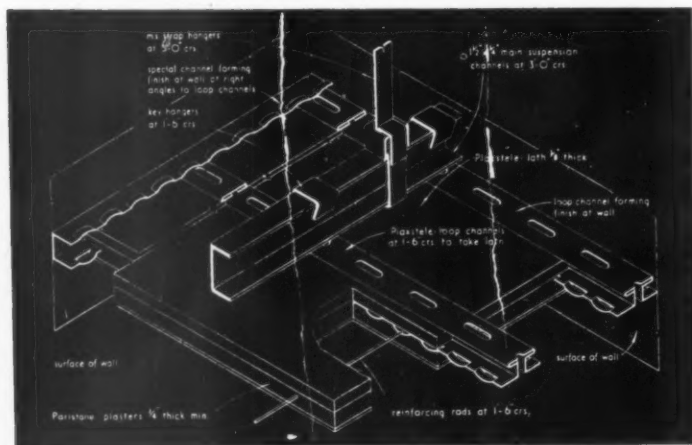
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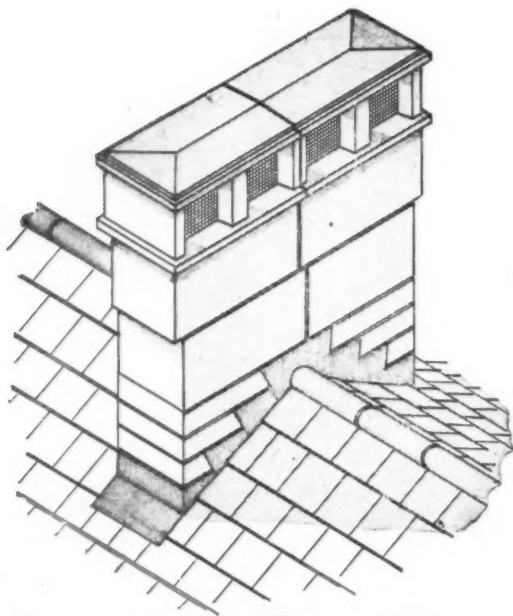
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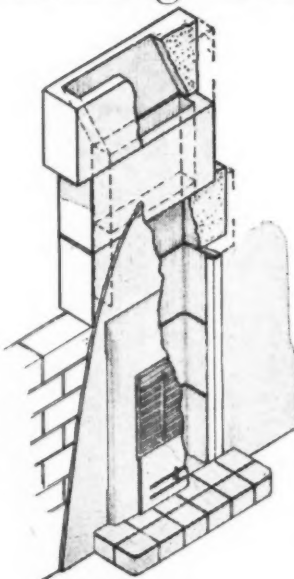
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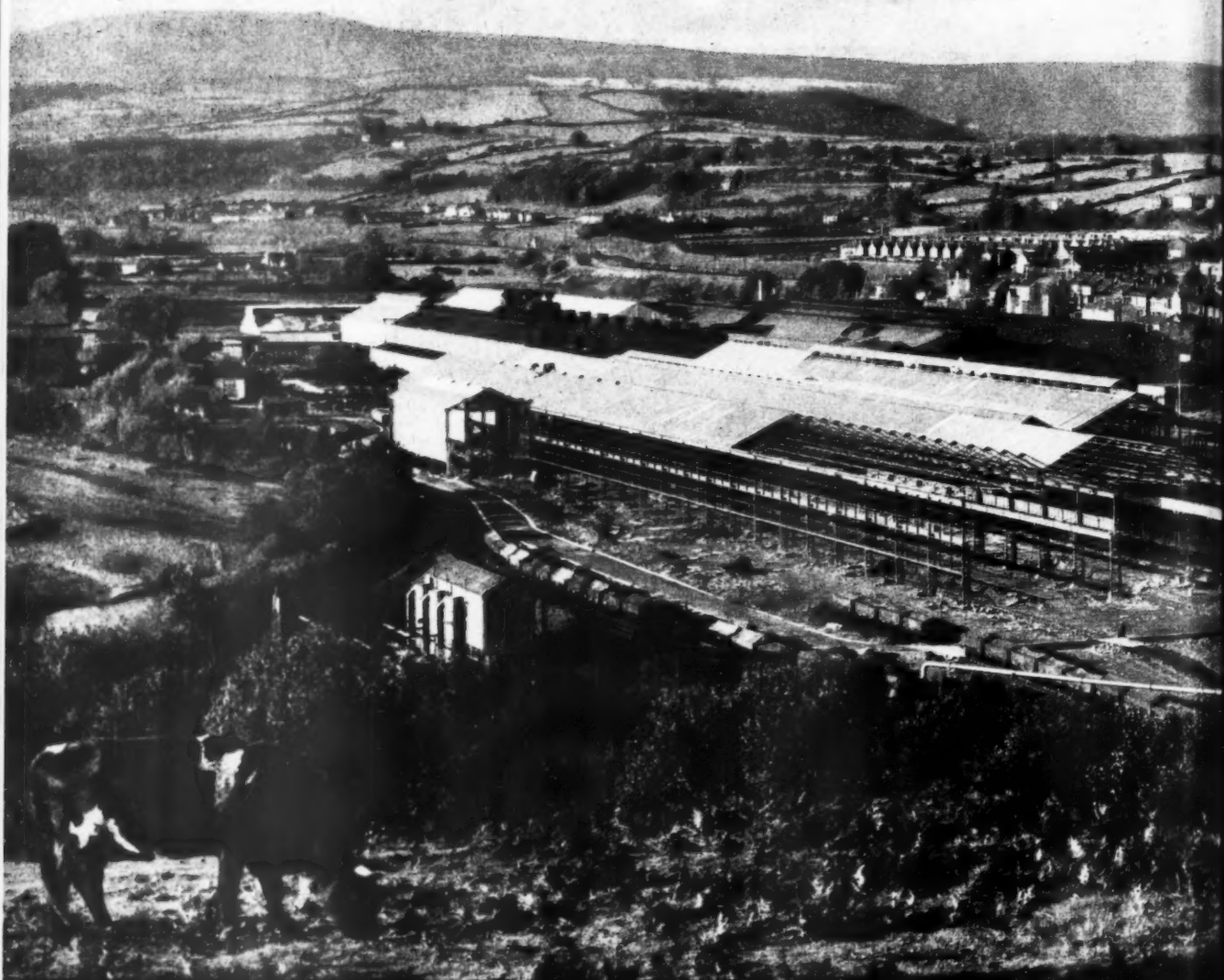
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THE ARCHITECTS' JOURNAL

No 2901 21 Sept. 1950 VOL 112

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THE SECOND BUILDING WEEK

Since the pioneer effort last year at Tunbridge Wells, MOW seems to have learnt quite a lot more about exhibitions. The recent effort at Leeds, judging by the crowds on the first two days, seems of considerable interest to the general public as well as to architects and builders. I was doubtful when I first heard that everything but the plant was to be displayed in tents, but these turned out to be large enough to give a reasonable feeling of space, and, perhaps because walls and ceilings were so absorbent, the loud speaker system in the tent for meetings was about the best I have ever heard.

But I am still unhappy about the sort of show the RIBA put on. At their own headquarters the RIBA put on some of the best exhibitions of architecture this

country has ever seen, but when they come to publicize their own profession they go all bumble-footed and pompous. Screens of photographs, plans and elevations are all right for other architects, but do they help at all to put the profession over to the public? This is the verbatim text of the introductory screen to the RIBA stand:—

This exhibition, organized by the RIBA, illustrates some of the recent work designed by the architectural profession. Architects' work ranges from the design of individual new buildings to planning new towns. Architects may be employed by private clients or may work for public authorities or commercial firms, either as private practitioners or in a salaried capacity. Architects carry full responsibility for the design and supervision of building work entrusted to them, though on all but the smallest jobs the services of the quantity surveyor are needed and probably those of the consulting engineer. They prepare sketch designs for the employer's approval, make working drawings and specifications covering every detail of the building, beginning with the foundations and ending perhaps with the decoration and furnishing. They negotiate with public authorities, obtain licences and statutory approvals, and advise on contract procedure. They issue the necessary instructions to the builder, certify payments to him and supervise the work while in course of construction to make sure that it is built in accordance with the specification and drawings.

Do my publicity-conscious readers consider this adequate? I would be interested to hear their comments.

In contrast to this, I found that quantity surveying was explained very much better in the Education and Training section. Starting with a window detail, the whole process of taking off quantities was illustrated with sample work pages leading up to the final bill.

Couldn't we put architecture across in the same way, explaining that the architect should be the key man in good building, and show him working out every step, from discussing the suitability of the site to the production of sketch schemes and then a final set of working drawings and specifications? Displays of drawings only reinforced, I think, the far too prevalent idea that the architect is merely the chap who puts the art in, and remembering all the other specialists consulted, it is not surprising that the public tend to wonder how the architect's fees are really earned.

FOLK MUSEUMS

The correspondence in *The Times* on the subject of folk museums suggests that in spite of our love of cottages, spinning wheels and copper kettles, we are Philistines at heart. In England there is no place where the visitor can go and examine the kind of things which, as Mrs. Mellanby said in her letter, "form the background of daily life in times past," and those in Wales, Scotland and the Isle of Man seem to be little known. Whether, as has been suggested, such a folk museum should be in one place where cottages of different regions and periods could be erected and equipped is open to doubt.

This course has been adopted at Skansen, but would it not be better in this country to show not only a house,

LABOUR DIFFICULTIES IN THE PRINTING TRADE COMPELLED THE JOURNAL IN COMMON WITH MANY OTHER PERIODICALS TO MISS PUBLICATION OF THE ISSUE FOR SEPTEMBER 7, 1950, AND TO REDUCE THE NUMBER OF ITS PAGES LAST WEEK. THIS REDUCTION WAS A PURELY TEMPORARY MEASURE AND NORMAL PUBLICATION WILL BE RESUMED FROM THIS WEEK.



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barn or cottage, with its contemporary contents and equipment, but also to have it in the habitat where it originated? The visitor to Britain usually wishes to travel through the country and each area could have its own group of exhibits. In many villages there are houses and buildings of all aspects and sizes that would be suitable for such an enterprise. As time goes on, it will become increasingly difficult and expensive to prepare such a "museum." It is to be hoped that Mrs. Mellanby's letter will evoke a response in official quarters.

TREASURE HOUSES

The Bureau of Current Affairs is doing its best to stimulate the kind of interest that would produce support for such a venture as that referred to above. Their latest "map review" is devoted to "England's treasure houses." The map plots plenty of the largest houses belonging to the National Trust that contain "books, furnishings and other works of art." I am pleased to say that there is a photograph in this latest review of Draycott Park in Wiltshire. My readers will remember that I mentioned this house some time ago as having been disposed of to a local builder who proposed to use it as a quarry and a source of other building materials. It still stands, though sorely battered.

PRIVATE FIGURES

This is a poor time of year for gallery-going, unless you like exhibitions of the kind usually described as "mixed." I confess that I don't; I find a couple of hundred paintings by half as many artists crowded together on the walls of a small West End gallery a weariness to the eye and no great consolation to the spirit. A good exhibition, I suspect, must be inspired by something more than the hope that some of the pictures may be sold.

*

However, there is one mixed exhibition, not of painting but of sculpture, which is well worth a visit. It is called "Sculpture in the Home," has been organized by the Arts Council, and is at present on at the New Burlington Gallery. As Philip James, in the foreword to the catalogue puts it, it is "confined to small pieces not only



Projects and models of buildings to be commenced in Yorkshire in the near future were well displayed on the stand of the Directorate General of Works (Architects Division) at the Leeds Building Week Exhibition. (See note.)

because of the difficulties of moving a touring collection of sculpture but also because it is hoped to encourage an appreciation of an art which is less widely recognized than painting as being suitable for the decoration of the home. For this reason too, many of the pieces are shown not on pedestals but on furniture."

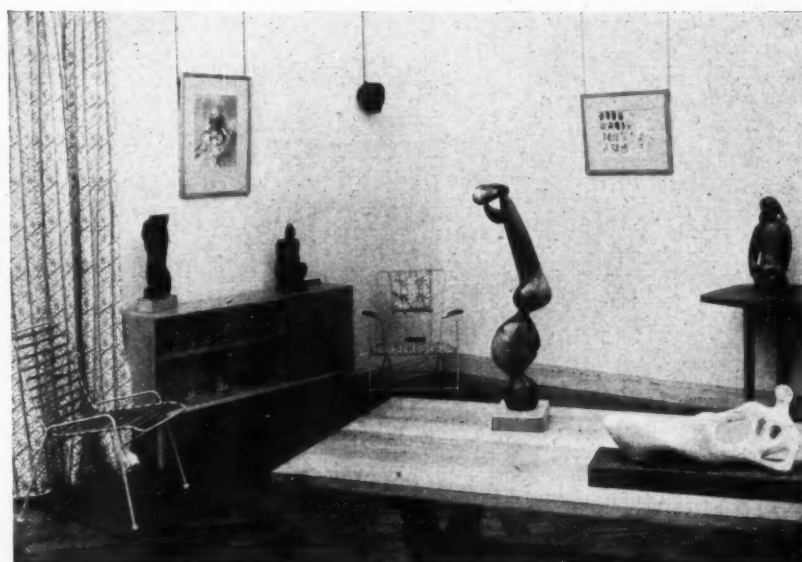
*

Well, there isn't really anything very homelike about the New Burlington Gallery, of course. But the idea of showing good modern furniture and sculpture together was a bright one.

The sculptors present include Adams, Butler, Dobson, Epstein, Gordine, Hepworth, Jonzen, Moore, Paolozzi and Underwood, and prices range from £9 to £250. So if you want something to cover up that scratch on the piano top, now's your chance.

MORE TOWN PLANNING

"Don't start shooting the pianist, or the town planner," said an indignant member of the latter profession on reading a recent article in *THE JOURNAL*, "he is doing his best and he is on your



An exhibition of "Sculpture in the Home" at the New Burlington Galleries. (See note.)



European Parliament

The Council of Europe, which has just concluded its 1950 assembly in Strasbourg, met for the first time this year in the building especially erected to house it. It is on the edge of Strasbourg and occupies the foreground of this aerial view. In the distance is Strasbourg Cathedral. The decision to erect a building was only made by the

Committee of Ministers last January and work on the site was not started till March; so this large building, comprising the debating chamber, a library and committee rooms, offices for the secretariat and accommodation for the press, was completed in the remarkably short time of five months. The architect was Bertrand Monnet.

side. We have decided on our New Town development programme very carefully," he explained, "and we are building them on a properly planned basis. Four years to get into peak production, so to speak, seven years at peak production, and four years to slow down. Fifteen years to produce and fill houses, schools, factories and recreational buildings."

What is the limiting factor to the rate of growth of a town? Is it just the amount of capital expenditure allowed? Or is it the rate at which people can be absorbed into a community? On the other hand it may be just the length of time it takes to provide services, or houses, or other essential buildings to form a balanced whole. When the answer has been found it may then be possible to devise a way of speeding up the growth of the towns so that ASTRAGAL will have a chance to see them before he lies spinning, like a dynamo, in his grave, revolved by the planning heresies of future generations.

PADDINGTON POOL SITE

I was pleased to see that the MOTCP has shuffled into step again with the *avant garde* and dismissed the appeal of Paddington Borough Council against the refusal of the LCC to permit the development of the open space by Paddington Pool (see this column of August 17 and sketch below by architect Philip Cundall).



I have some sympathy with the Director of Housing for Paddington, G. A. Jensen, because I have no doubt that any design for a block of flats from his department would enhance the beauty of this site. But if Paddington is short of sites, London is even shorter of open spaces, and there are plenty of derelict areas in Paddington which need rebuilding.

ASTRAGAL

The Editors

NEW TOWNS MUST PAY FOR THEMSELVES

THE New Town Development Corporations, as government sponsored enterprises, differ from other public bodies such as the National Coal Board or the British Electricity Authority in that the value of the assets with which they begin their activities is practically negligible. A further difference is that the duty of each corporation is to act as an agency to create assets in the form of a thriving town of many thousand inhabitants, and that, having done this, the corporation will be dissolved and its functions transferred to the local authority and the statutory undertakers for the area. There is one similarity, however, between the New Town Development Corporations and the national boards; this is that, even under state enterprise, the one standard by which their efficiency can be gauged is the profit and loss account which has to be rendered each year to Parliament.

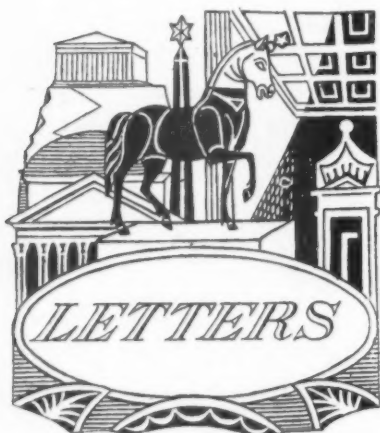
The accounts of the new towns, so far, have been chiefly concerned with details of expenditure of government grants. But the time will come when details of income will also be shown in these accounts. The methods by which a profit and loss account can be drawn up for a New Town, built under state enterprise, are still unknown. In the present state of national economy, however, it is vital that the New Towns should be made to pay for themselves.

Architects and architect-planners can play a leading part in creating the assets represented by the building of a New Town. There are three ways by which this can be done. First, building should be carried out at a reasonable cost, as construction will represent the major part of the overall expenditure. Secondly, it should be realized that economies can be effected by sound construction and by adequate but not excessive standards for estate layout. Thirdly, a contribution can be made toward the creation of a good standard of estate development values by means of the correct siting of different types of buildings in the right numbers.

How can building costs be reduced? Our Technical Editor, R. Fitzmaurice, stated five principles on ways of reducing costs at the conference on Housing held by the Housing Centre during the summer. These were as follows:—Build simpler and less lavishly equipped houses; improve technique so that more houses are built for the same outlay of money or effort; persuade everybody concerned to work harder for the same money, or to accept less money; and cut out all waste of material and effort.

Our greatest hope lies in the possibility of improvements in technique. There have recently been demonstrations of speedier house building methods which are worth the attention of those concerned with the building of new towns. There are, for example, the hundred "on site" houses which are being erected for the LCC. This method involves the use of a specially designed machine which is said to make possible the erection of 100 houses in 100 days by 45 unskilled

and semi-skilled men. Another system of speedy and economical building, the Schindler method of flat construction, will be fully described in a forthcoming issue of THE JOURNAL.



H. C. Higgins

L. E. Poole

K. R. Herbert

N. Montgomery, A.R.I.B.A.

C. N. M. Osborne

K. V. Gummatt

C. J. Lisle

Dock Terminal

SIR.—J. H. Jellett's letter, published in the JOURNAL on August 24, is interesting.

I am intrigued by the erudite cabal of distinguished "architects and engineers whose aim is to produce structures which shall combine to the maximum degree the satisfaction of man's material requirements and the stimulation of his aesthetic appreciation," and more intrigued by Mr. Jellett's assurance that, subject to site limitations, the Ocean Terminal building achieves this "maximum degree."

Indeed, the statement is reminiscent of the advice given by that distinguished physician, Sir Ralph Bloomfield Bonington in *The Doctor's Dilemma*: "Approach your patient, inject your anti-toxin and stimulate the phagocytes." The Ocean Terminal building has precipitated an architectural dilemma, and it appears that Mr. Jellett and his staff have stimulated the phagocytes of aesthetic appreciation, but, like their Shavian counterpart, have stimulated them in the wrong way.

Perhaps Mr. Jellett will forgive me if I presume to suggest that, after close observation, the Ocean Terminal patient appeared to me to have a somewhat billious expression which I can only assume is due to an ill-considered anti-toxin and one administered too late.

H. CASSIUS HIGGINS.

London.

SIR.—Although Astragal has clearly established a criticism of this building, Mr.

Jellett does not seem to have recognized the fact. Perhaps it is not surprising that those who were content to see the design on the drawing board put into effect are now insensitive to the nature and intent of the criticisms levelled against it. Mr. Jellett claims the semi-circular feature on the south end as an ingenious means of emphasizing its "seaward-looking character"—whatever that may mean. The fact is that the building serves embarkation and disembarkation, and to dwell on the latter function is illogical.

Unfortunately this building is another example of an age in which thinking is generally easier than feeling, and the fact that the Royal Commission on Fine Arts has commended it will not commend it to those who prefer to cultivate their own judgments on these matters.

L. E. POOLE.

London.

A Charming Collection of Buildings

SIR.—Your journal, excellent though it is in many respects, seems to have a veritable "bee in its bonnet" whenever a mere engineer dares venture into the architectural domain. Your criticisms of flats at Shepherds Bush in the issue of August 17 are typical of this indiscriminate condemnation policy of the past.



Here we have a charming collection of buildings, excelling by far in honest architectural and traditional domestic character those executed by some of our present-day architects, and yet, because these flats bear the taint of the Borough Engineer's signature, they are dismissed as being unworthy of display to our critical visitors from overseas. By all means let us have criticism, but less please of these petty professional quibblings which do irreparable harm to the architect's status in the building world. In other words, credit where credit is due.

K. R. HERBERT.

New Malden.

The Quantity Surveyor

SIR.—Owen Davis (article: July 27) and "Q. S." (letter: August 24) blame architects who evade the responsibility of specification-writing. In fact, the traditional specifica-

tion, with its failure to set out the essentials, its continuous clause numbering, its devout clauses bequeathing treasure trove to the King, is disorganized, lyrical and inconsequent. Only a great eccentric could use it efficiently.

The structure of the document requires revision, and doubtless the BSI and RIBA are working on this. In the meantime a workable instrument could be made by an initial recognition that the three essentials in a specification—materials, workmanship and the scheduled works—should be kept distinct, followed by a decision to confine consecutive clause-numbering to each separate trade.

The preliminary clauses should be isolated and standardized. Each trade should be divided in two. Part 1 would cover materials and workmanship and would be invariable. On each job the architect could then concentrate on writing part 2. Having established his definitions he would be concerned only with scheduling the particular works required. The contractor would then be instructed to price part 2 only in the light of the definitions set out in part 1. This would be workable.

NIALL MONTGOMERY.

Dublin.

Architectural Competition

SIR.—I wish heartily to endorse Astragal's suggestion that a preliminary eliminating competition should be held whenever possible to save the immense amount of time and labour to unsuccessful competitors.

I should suggest a reasonable time to be given for the submission of small scale drawings sufficient to explain the project, with possibly short notes and sketches to amplify the idea.

The few chosen to complete their schemes might be granted a fee to cover reasonable expenses.

C. N. M. OSBORNE.

London.

SIR.—I wholeheartedly agree with your comments in the JOURNAL for August 24 on the conditions under which the Coventry Cathedral competition is being conducted.

In addition to your point that architects with some hope of the prize would work with greater enthusiasm if an eliminating competition of sketch designs was first held, I feel that the task before the assessors would be less difficult. They would not have to go through the whole list of candidates' completed drawings in an effort to select the best design. It would be far better for them to have a small number of first-class designs to argue over.

K. V. GUMMETT.

Dagenham.

SIR.—I was very interested in your comments (August 24) on the Coventry Cathedral competition under the heading "Advice to Promoters."

Your suggestion of operating this competition (and subsequent ones) in two stages, separated by a sketch design elimination, commends itself to the architectural student who is debarred from making his humble offering to the Coventry assessors—presumably because they fight shy of the prospect of wading through reams of useless drawings. The scheme you advocate does, of course, remove this just cause or impediment and would, if carried out, give the student an unequalled opportunity of proving his worth.

As a student myself, I am wholly in support of your suggestion.

CHRISTOPHER J. LISLE.

Surrey.

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.

INTERNATIONAL SUMMER SCHOOL



LCC

Housing Development Group Formed

A Development Group has been established in the new Housing Division of the Architect's Department of the LCC.

The group will investigate and report on planning and design, methods of construction, materials and costs of multi-storeyed housing. They are particularly interested in the standardization and prefabrication of components, both structural and non-structural, with a view to reducing costs, speeding up erection times and improving amenities.

Manufacturers and firms interested in these problems are asked to write to the Architect to the London County Council, the County Hall, S.E.1.

AA

Vice-Principal Resigns from School of Architecture

Mr. David Goddard has resigned his position as Vice-Principal of the AA School of Architecture and will devote himself to his practice. He was first appointed to the School Staff in January, 1945, and subsequently became Year Master of the 4th Year and then Vice-Principal.

FOB

Panel of Architects to be Appointed for Bus Shelters

A large number of new bus shelters are to be built throughout the country as a permanent reminder of the Festival of Britain 1951. Each shelter will bear the Festival of Britain emblem—Britannia's head on a compass star—and care will be taken to ensure that it will harmonize with its surroundings. For this purpose a voluntary panel of architects is to be appointed jointly by the Festival Office, the Rural Industries Bureau, and the RIBA.

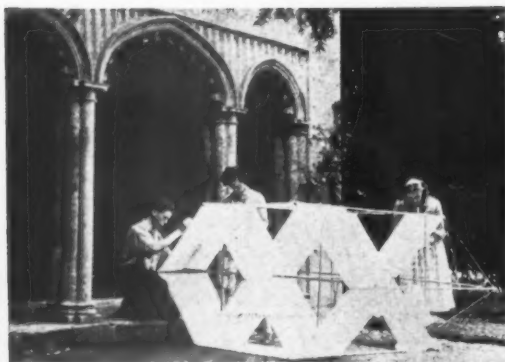
The estimated average cost of each shelter will be about £125; but the cost may in many cases be considerably less for it is hoped that local craftsmen will lend their skill and that others will give materials as part of their contribution to the festival.



An International Summer School held at Corsham Court, Wiltshire, by the Bath Academy of Art, which is in residence there, and the Architectural Association, closed at the end of last week. The object of this session was to provide a forum in which students of painting, sculpture and architecture could consider, not how painting and sculpture could be applied to architecture, but how those arts could again become one. The School was under the direction of Clifford Ellis, principal of the Bath Academy of Art and Robert Furneaux Jordan, principal of the Architectural Association School. Above: members of the AA School constructing a "space frame," a bamboo framework canopy to be cantilevered over the swimming pool. Following page, top: students are seen making clay models of each other. Left to right: Miss M. Hitchisson (AA), Miss R. M. Neess (Germany), T. Bigwood (AA), J. Watkins (AA), R. Heritage (RCA). In the centre is Miss M. Pascalis, of France. Overleaf, centre: a group of students discuss the problem of colour decoration which they are preparing for the entrance hall of a factory at Brynmawr. The model was made by first year AA



students. Left to right, M. G. Cox (Slade), H. P. Wood (AA), Francesco Gnecchi (AA), J. Carver (Bath Academy), and Miss P. Emmett (AA). Bottom, R. A. Maguire (AA), Miss P. A. Stewart (Edinburgh), and Miss K. Nicholson (Bath Academy), making a kite. Right, final adjustments being made to a vertical feature, constructed of bamboo and string under direction of M. Patrick (AA). P. T. Guilmant (AA) knocks home a peg.



PARIS

Building Documentation Conference

The first general assembly of the International Council for Building Documentation will meet in Paris from October 23 to 28 at the invitation of the French Government. Subjects for discussion will be:— Exchange of abstracts and information; terminology; classification; format and layout of publications; data sheets; the needs of the users of information.

The United Kingdom delegation and observers will be nominated by the British Building Documentation Committee (Secretariat: MOW Library, Lambeth Bridge House, S.E.1), from whom further particulars may be obtained. It is hoped that the delegation will be representative of all aspects of the industry.

ROME

Scholarship in Architecture

Candidates wishing to enter for the Rome Scholarship in Architecture 1951 should apply before October 16 to the hon. general secretary, British School at Rome, 1, Lowther Gardens, Exhibition Road, S.W.7.

RIBA

Reception for Commonwealth and US Architects

The council of the Royal Institute of British Architects are holding an informal reception early in October for architects and students of architecture from the British Commonwealth and from the United States.

Although lists of names and addresses of such visitors have been obtained from allied and corresponding societies and schools of architecture in those countries, it is thought that there may yet be some visitors who, due to a change of address, will not receive an invitation. The Secretary, RIBA, 66, Portland Place, W.1, will be very grateful to any reader who, knowing the address of any architectural visitor from the Commonwealth or United States, will be kind enough to pass this information on to him.

DIARY

Sculpture in the Home. Exhibition at New Burlington Galleries, Old Burlington Street, W.1. (Sponsors, Art Council and CID.) To-day, 10 a.m. to 8 p.m. Tomorrow and Saturday, 10 a.m. to 6 p.m.

UNTIL SEPT. 23

Lloyd Wright in Britain. Robert Furneaux Jordan. BBC Third Programme. Sept. 21, 9.30 to 9.50 p.m., and Sept. 24, 9.35 to 9.55 p.m.

SEPT. 21 AND 24

A Small House at Hamblestead. A Suffolk architect tells how he built his own house. Three talks in BBC Home Service. Sept. 22, 7.40 p.m., Sept. 29, 7.40 p.m., and Oct. 6, 7.40 p.m.

SEPT. 22 AND 29; OCT. 6

Salisbury Cathedral Spire Restoration. Exhibition. The Building Centre, 9 Conduit Street, W.1. 10 a.m. to 5 p.m. Saturdays, 10 a.m. to 1 p.m.

SEPT. 25 TO OCT. 7



The amount of constructional work carried out in the New Towns and the amount of time spent in the preparation of plans and in the settling of legal matters are points of interest to architects today. On this and the following page D. Rigby Childs gives the second of a series of reports on what has been described as the most exciting experiment of the century.

NEW TOWNS: No. 3

Progress report on Crawley by D. Rigby Childs

The proposal for a new town at Crawley was first made by Mr. Silkin in 1946 as part of the comprehensive scheme for the decentralization of population from London. The population for the new town is to come from Greater London generally and especially from the southern side. The ultimate size is to be 50,000 persons.

Situated in parts of three counties, East Sussex, West Sussex and Surrey, the site, partially built up, contains the existing small town of Crawley and includes the villages of Ifield and Three Bridges and part of the villages of Lowfield Heath and Worth. The present population is about 10,000 persons.

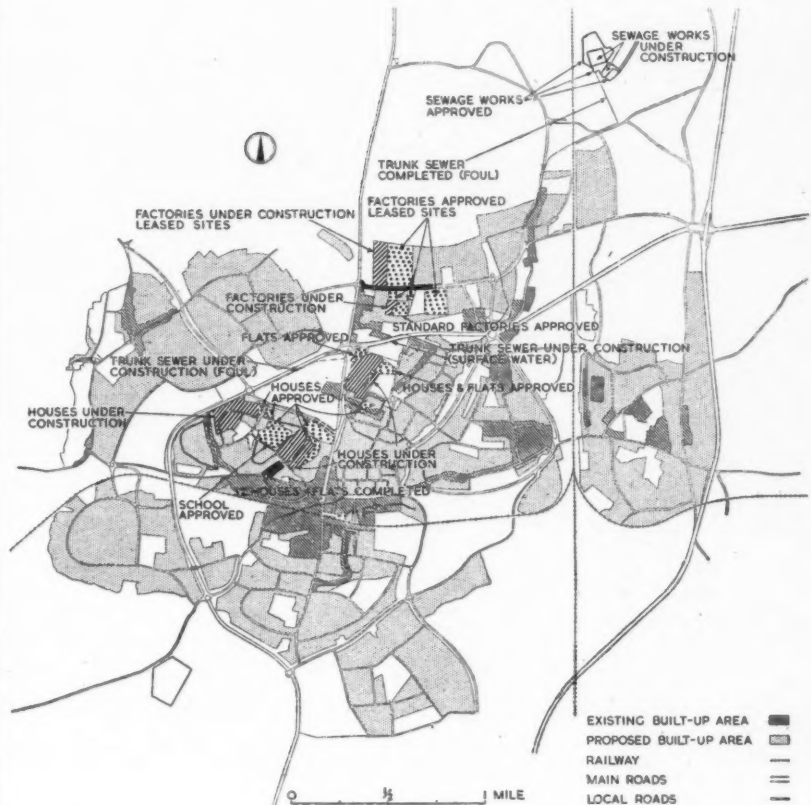
The topography is generally flat, rising to the south. The site is well provided with hedgerows and trees and is an area of mixed farming.

DEVELOPMENT CORPORATION

The Development Corporation is made up as follows: chairman, Sir Thomas P. Bennett; vice-chairman, L. E. Neal; chief executive officer, C. A. C. Turner; chief architect, A. G. Sheppard Fidler; chief engineer, A. J. W. McIntosh; planning consultant, Anthony Minoprio.

Outside architects engaged by the Development Corporation are: Godman & Kay; Graham Dawbarn & Partners; Johnson & Crabtree; A. W. Kenyon; Minoprio & Spenceley. All are engaged on either housing or flats.

A. E. Barnard is architect for the private factory that is being built on the industrial estate.



Plan of Crawley.

PROGRESS

1947: January. Designation Order made for approximately 5,920 acres.

August. Preliminary outline plan prepared.

December. Master plan prepared by the planning consultant.

1948: August. The first building contract let.

1949: June. Draft master plan submitted by the Development Corporation to the Minister of Town and Country Planning.

1950: February. Minister of Town and Country Planning gave general approval to the draft master plan. The master plan had not been published.

According to the master plan, about 4,000 acres will be developed or used as town lands as opposed to agriculture.

July. By this month 131½ acres of land and building and 17 shop properties had been acquired by the Development Corporation, which is also in the course of acquiring a further 632 acres of land and buildings and 76 shop properties.

By the end of this month 46 houses of all types and 4 flats had been completed.

The only other buildings to be completed are semi-permanent office buildings for the use of the Development Corporation.

The number of buildings under construction are: 458 houses of all types (by the end of July); 96 flats of all types (work just starting); six factories (standard factory units totalling 33,000 sq. ft. in area); one private factory (stage 1 construction, approximately 60,000 sq. ft. in area); one labour hostel for 450 men nearly completed.

The total expenditure on constructional works completed or in progress by the end of July was £1,458,166 (civil engineering, £615,371; building construction, £842,795).

The total labour force at work was 750 men, with 341 men on civil engineering and 409 men on building construction.

[N.B.—650 men were employed on Corporation work, 301 men on civil engineering, and 349 men on building construction. The other men were on non-corporation work—40 on civil engineering, including roads, and 60 on building construction.]

PROGRAMME

On the basis that the amount of factory, school and shop, etc., building will be in balance with the building of new dwellings, the aim for intake of new population during each of the next three years is as follows:—

1951, total number, 2,800 persons.

1952, further 3,200, to make total number of 6,000 persons.

1953, further 3,800 to make total number of 9,800 persons.

COMMENT

The Corporation has so far encountered no serious obstacles in starting the development of the new town. Great importance is attached to keeping the rate of building of factories and dwellings in balance. Owing to the time required to build a factory being about twice that required for building a house, the development of the first stage of the industrial estate has been pushed ahead vigorously.

The building of parts of two neighbourhoods is in progress in order to give variety and to keep the new growth evenly spread about the existing developments.

Over 30 different dwelling types, including houses and flats, are being produced in the form of one to five bedroom terrace, semi-detached and detached houses, bungalows and in three-storey flats in rectangular, L and star-shaped blocks. Brick is the basic building material.



Aerial view of Hemel Hempstead.

NEW TOWNS: No. 4

Progress report on Hemel Hempstead by D. Rigby Childs

One of the sites recommended in the Greater London Plan, 1944, for the building of a new town was one in north-west Hertfordshire in the relatively open land between the village of Redbourn and Hemel Hempstead. The site finally chosen for a new town in this area, after consideration by the MOTCP of the Inter-departmental Committee Report is one, however, which incorporates the borough of Hemel Hempstead. The population for the new town is to come from the London area, and special arrangements to this end exist between the Development Corporation and certain North London local authorities. The ultimate size is to be 60,000 persons.

The site is an area of mixed development. There is the old town of Hemel Hempstead in a pleasant valley setting, the communities of Apsley and Boxmoor, open parkland and farmland. A considerable industrial and commercial nucleus already exists. The present population is about 22,000 persons.

The topography is typical of the Chilterns. The site is bisected from north to south by the Gade valley. At Two Waters the Gade is joined by the Bolbourne stream, flowing from the west. The valleys are steep and narrow; plateaux between them rise to 400 ft. and are broken up by smaller valleys.

DEVELOPMENT CORPORATION

The Development Corporation is made up as follows:—Chairman, the Rt. Hon. Lord Reith; vice-chairman, R. H. Wilson; general manager, W. O. Hart; architect, H. Kellett Ablett; engineer, J. W. Henderson.

The consultant engaged by the Development Corporation for the preparation of the original outline plan was G. A. Jellicoe. Outside architects engaged include Dr. Thomas Sharp, Miss Judith Ledebor, Leslie Jones.

Miss Ledebor and Dr. Sharp are each designing neighbourhoods under the general direction of the chief architect. Mr. Jones is on factory work.

PROGRESS

1946: *September*. Designation Order made for approximately 5,910 acres.

Autumn. The consultant began work on the preliminary outline plan.

1947: *June*. Report published on the outline plan by Mr. Jellicoe.

1949: *April*. First building contract let.

August. Draft master plan submitted by the Development Corporation to the Minister of Town and Country Planning. The report on this plan has been published under the title of "Report accompanying the outline plan for Hemel Hempstead." Copies are obtainable from the Development Corporation. Report, 2s.; plan, 1s.; postage extra.

1950: *June*. Minister of Town and Country Planning gave his comments on the draft master plan. According to the draft master plan 4,313 acres will be developed or used as town lands as opposed to agriculture.

July. By this month 720 acres of land had been acquired.

The number of houses—all types—completed were 30.

Other buildings completed included one factory, area 38,000 sq. ft. (adaptation of existing premises); one residential hostel for building workers, capacity 200.

The number of buildings under construction are: 529 houses of all types; 36 flats of all types; one factory (area 16,000 sq. ft.); two schools (number of places 480); fourteen shops of all types, and one telephone exchange.

Current figures of total expenditure on constructional works are not available.

The total labour force at work was 595 men with 150 men on civil engineering and 445 men on building construction.

PROGRAMME

On the basis that the amount of factory, school and shop, etc., building will be in balance with the building of new dwellings, the aim for intake of new population by midsummer of the next three years is as follows:

1951, total number, 2,050 persons.

1952, further 2,750 to make total number of 4,800 persons.

1953, further 2,800 to make total number of 7,600 persons.

COMMENT

Hemel Hempstead Development Corporation was appointed in March, 1947, and for the remainder of that year the Corporation was engaged in litigation arising from the designation order.

The new town is being constructed around the existing nucleus of over 6,000 houses. The Corporation is anxious to avoid a clash between the character of its new buildings and that of the present development, in particular that of the old part of the town with its 16th-17th century High Street, Norman church and adjoining parkland. The Corporation considers that the relative density of new buildings to open spaces should be about the same as that which is to be found in the present town; the colour and form of new construction should be in keeping with the character of the present buildings.

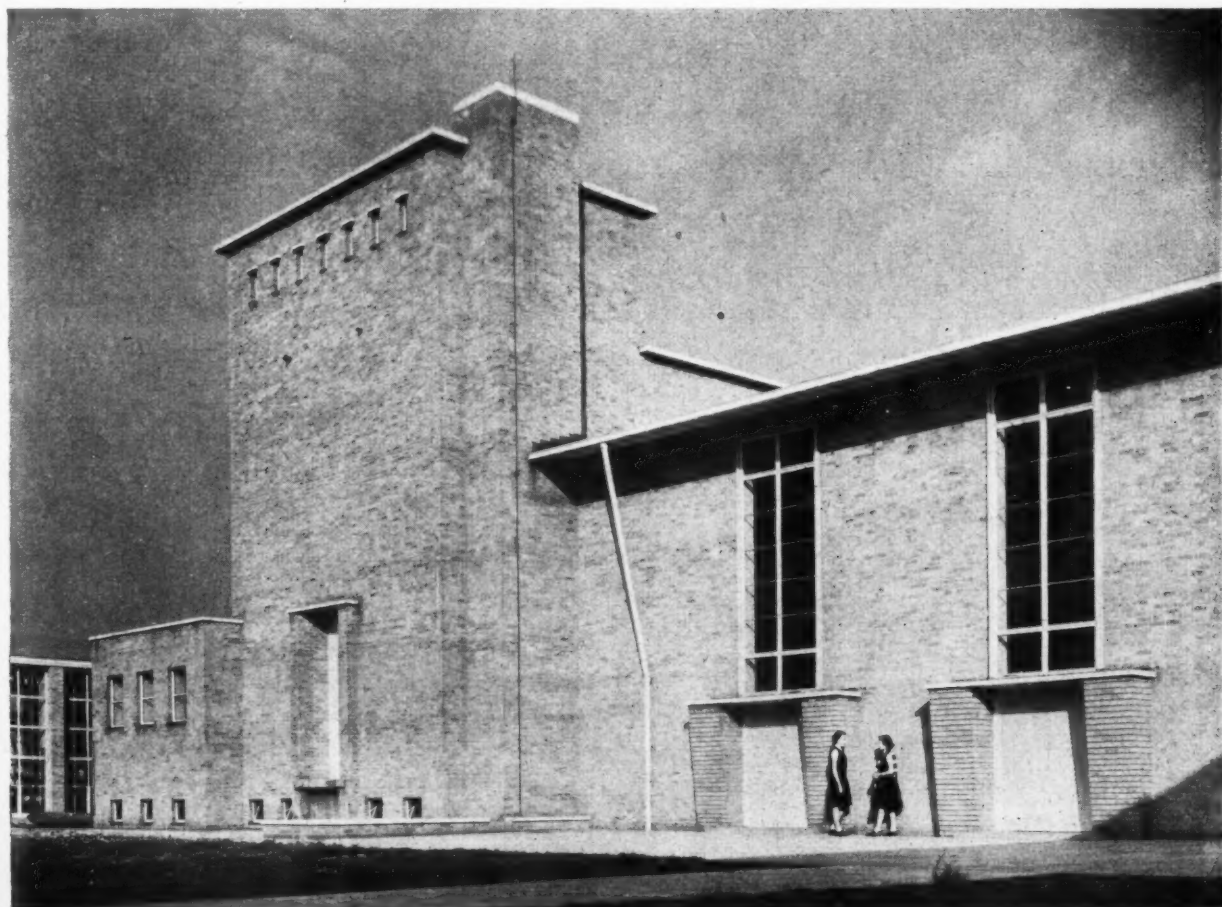
In adding the new town to the present large nucleus the Corporation is faced with problems of re-development which do not arise where the site is more open. On the other hand, it finds available existing services and amenities which help to keep down early heavy capital expenditure and to attract new population to the town.

SCHOOLS

in LANCASHIRE
designed by the LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT
G. NOEL HILL, COUNTY ARCHITECT

The three form entry secondary modern school for girls at Litherland was the first to be completed for the Lancashire County Council after the war. Work was started in March, 1947, and the buildings were completed in just under three years. The school has been designed to accommodate 510 pupils. A fixed form contract was adopted and the buildings were completed in two parts. The first part, with accommodation for 270 pupils, took thirteen months to build. It was necessary to build a temporary staff room, lavatories and a boiler house as these were not completed until the second stage.

The assembly hall.



SCHOOL

at STERRIX LANE, LITHERLAND
near LIVERPOOL
designed by THE LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT

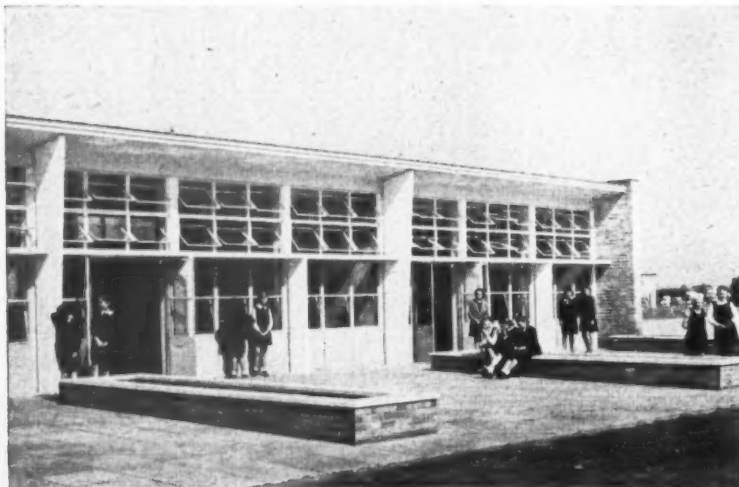
SITE.—The site is level and covers an area of 27·8 acres. It is situated on the fringe of a post-war housing scheme. Provision has been made for eight hockey pitches, eight hard tennis courts, a cricket pitch and a running track. Two acres of ground have been set aside for school gardens. A number of flowering and ornamental trees and shrubs have been planted.

PLAN.—The school is situated at the north corner of the site. All classrooms face south-east and are housed in one wing. The practical rooms are situated in two wings, in one wing at ground floor level, in the other at first floor level, over the cloak-rooms and lavatories. The gymnasium, dining



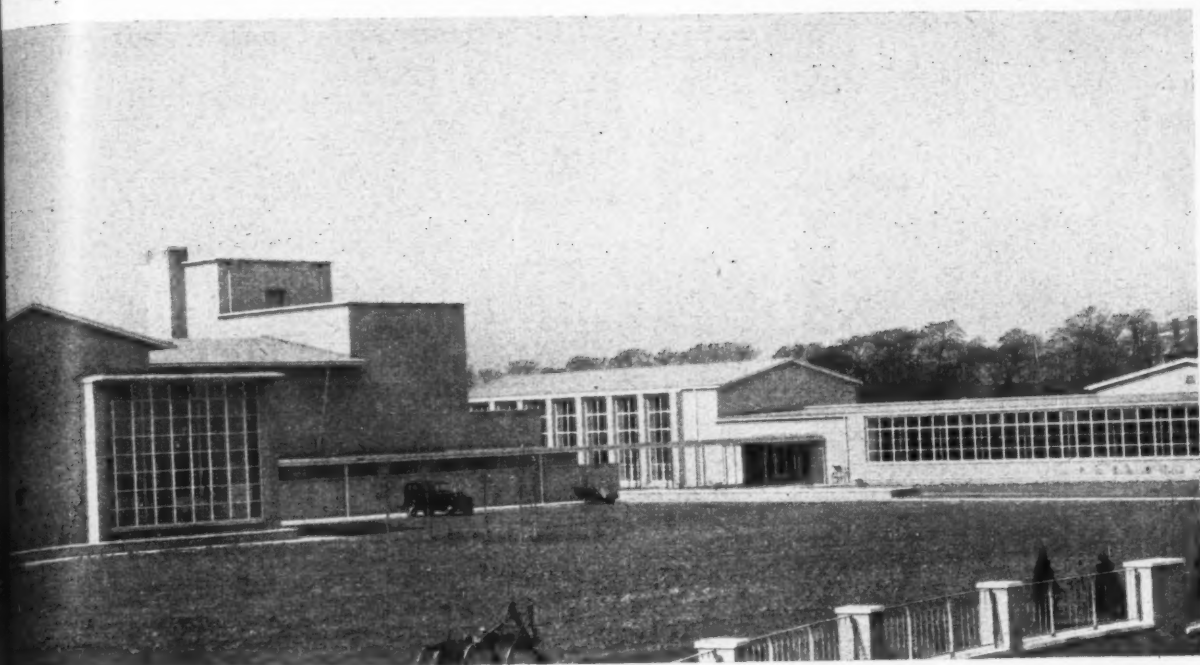
The school from the east.

Part of the classroom block.



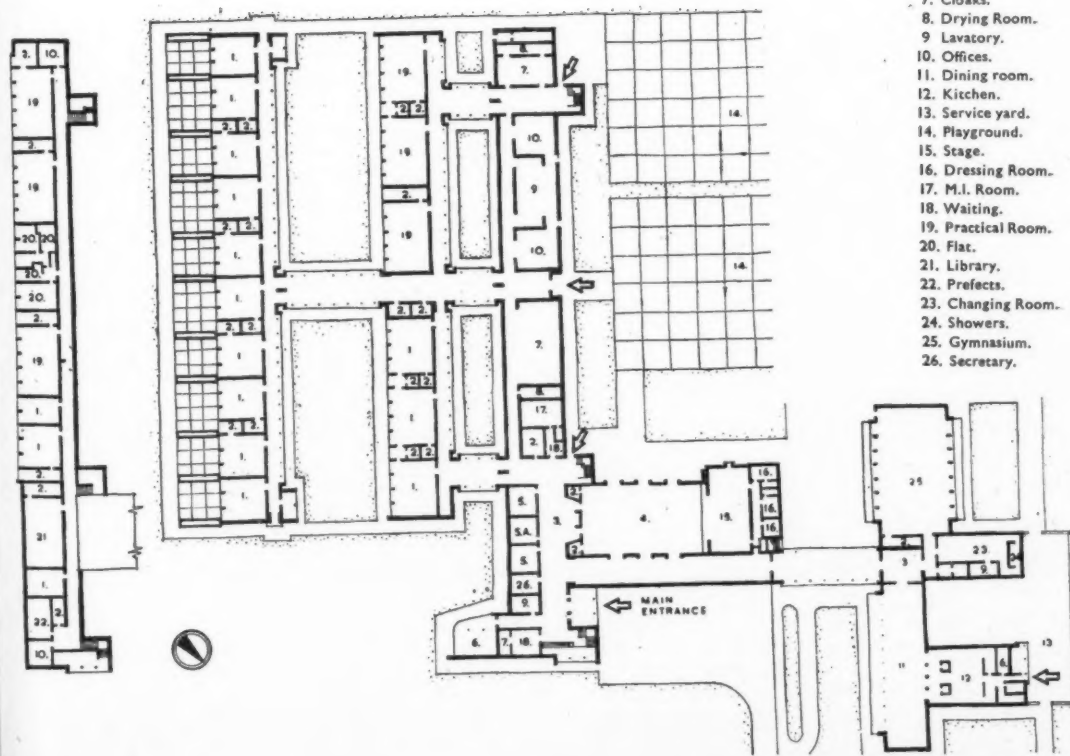
room and kitchen can be isolated and can be used for evening community activities. They are linked to the assembly hall by a covered way.

CONSTRUCTION.—Frame, steel. Walls; 4½-in. brick outer skin, cavity, 2½-in. hollow tile blocks. Suspended floors, generally precast concrete. Roofs; aluminium and steel decking, *in situ* reinforced concrete. Fascias, aluminium sheeting. Window frames, steel.



KEY :

1. Classroom.
2. Store.
3. Entrance Foyer.
4. Assembly hall.
5. Head.
6. Staff.
7. Cloaks.
8. Drying Room.
9. Lavatory.
10. Offices.
11. Dining room.
12. Kitchen.
13. Service yard.
14. Playground.
15. Stage.
16. Dressing Room.
17. M.I. Room.
18. Waiting.
19. Practical Room.
20. Flat.
21. Library.
22. Prefects.
23. Changing Room.
24. Showers.
25. Gymnasium.
26. Secretary.



First floor plan

Ground floor plan [Scale: $\frac{1}{16}'' = 1'-0''$]



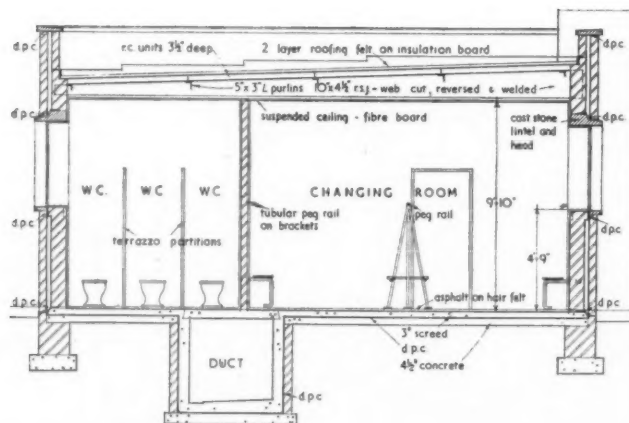
The library.

SCHOOL

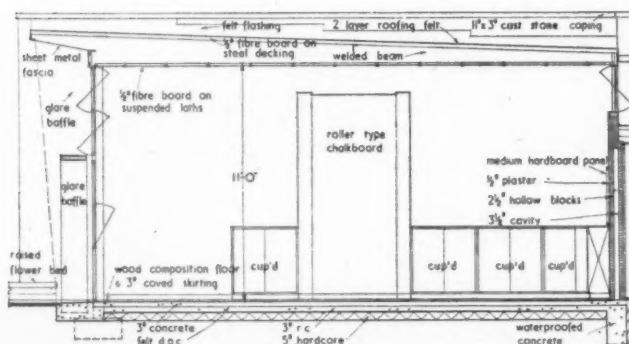
at STERRIX LANE, LITHERLAND
near LIVERPOOL
designed by THE LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT

EXTERNAL FINISHES.—Walls; 2½-in. sand-faced hand-made golden brown facing bricks. Sills, surrounds and copings, artificial stone.

INTERNAL FINISHES.—Floors: classrooms, ½-in. resin bonded aggregate; adjoining corridors, linoleum; practical rooms and adjoining corridors on the ground floor, kitchen and dining room, asphalt; practical rooms and adjoining corridors on the first floor, composition tiles; library, rubber tiles; entrance hall and lavatories, terrazzo tiles; assembly hall, wood block; gymnasium, wood strip. Walls; plastered, cement glazed dado to corridors, lavatories and cloakrooms.



Section through changing room

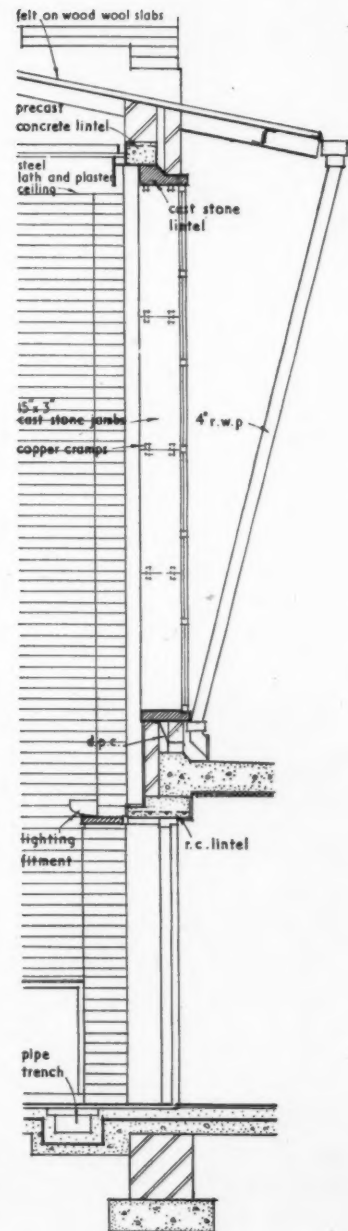
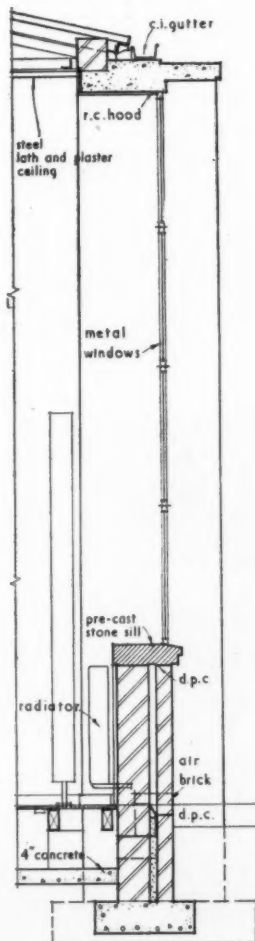


Section through a classroom [Scale: ¼"=1'0"]

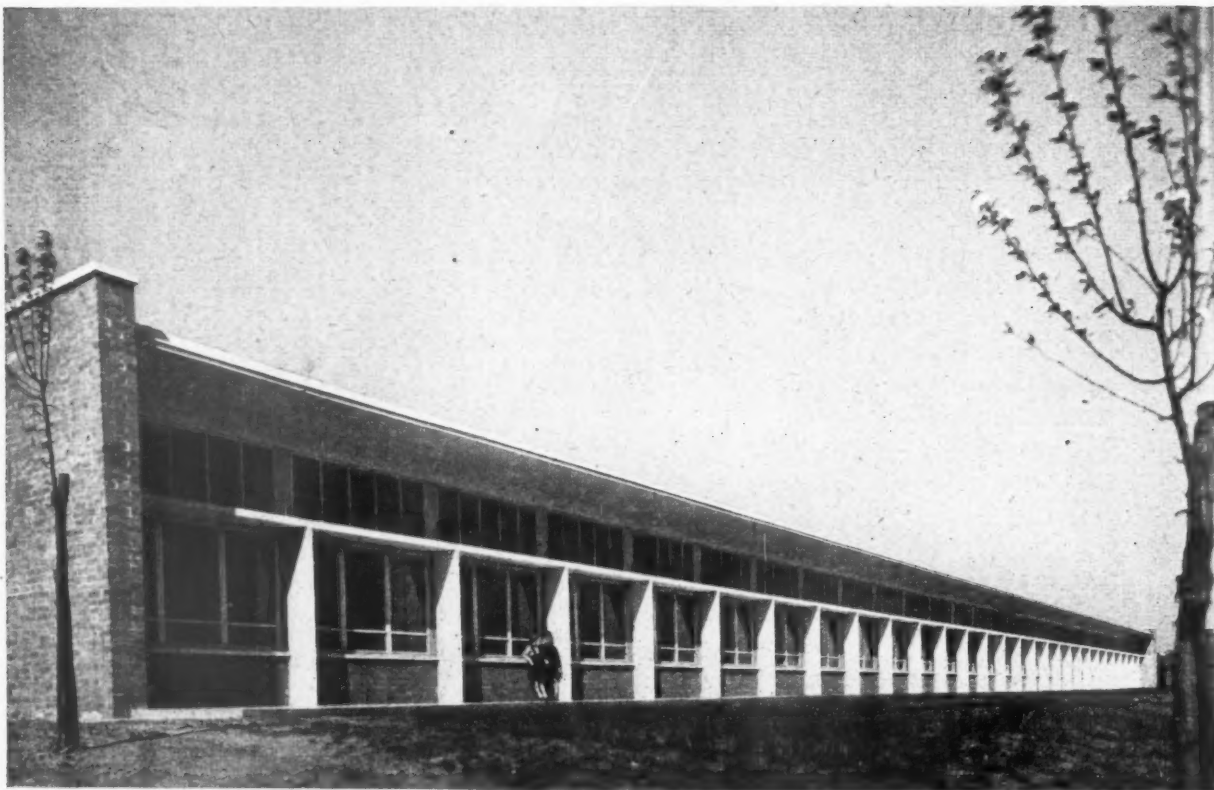
SERVICES.—Electrical. Tungsten lighting fittings have been installed. The stage is fitted with an independent lighting system. Radio diffusion, electric clocks, period changing bells and alarm bells have been provided. **Heating.** The boilers are oil fired and heating is by low pressure hot water. Service mains are carried in ducts under corridor floors. Recessed convectors are fitted in the foyer, assembly hall and dining rooms.

The general contractors were William Tomkinson and Sons Ltd. A list of sub-contractors appears on page 267.

Section (below) through gymnasium wall.
Section (right) through assembly hall
[Scale: $\frac{1}{4}" = 1'0"$]



A corner of the music room.



The classroom block from the south.

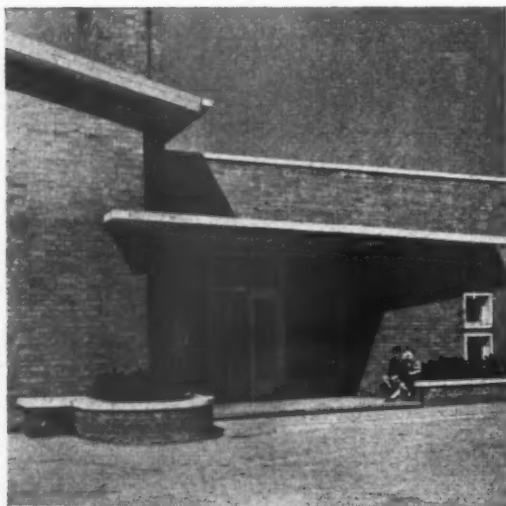
SCHOOL

at BUTTERSTILE LANE
PRESTWICH, near
MANCHESTER
designed by THE LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT

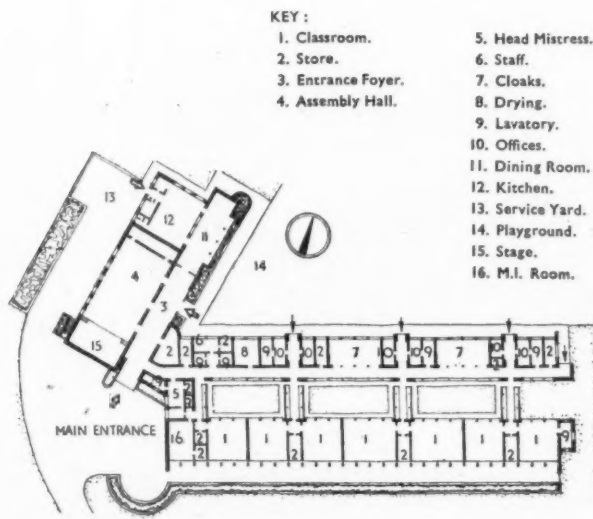
The one form entry junior and infants' school at Prestwich accommodates 160 juniors and 120 infants. *Site.*—Patches of peat and running water at a depth of 5 ft. The site slopes steeply to the south. 8,000 tons of soil had to be removed to form a level area for the school and playground.

Construction.—Foundations; reinforced wall beams

carried on mushroom based piles, terrace supported on reinforced concrete cantilever beams. Frame, rolled steel. Walls: 4½-in. facing brick outer skin, cavity, 2½-in. hollow tile inner skin; assembly hall, brick. Roof: aluminium decking, ½-in. fibreboard, bituminous felt finish. General contractors, J. Gerrard & Sons Ltd. Sub-contractors, page 267.



The main entrance.

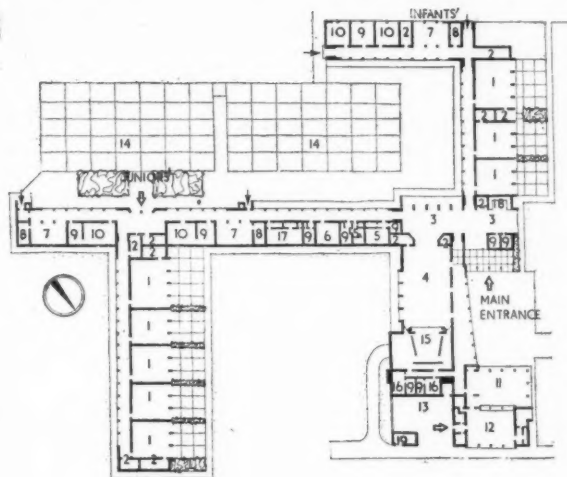


Ground floor plan [Scale: 1/8" = 1'0"]

Ground floor plan
(Scale: $\frac{1}{4}$ " = 1'0")

KEY

1. Classroom.
2. Store.
3. Entrance Foyer.
4. Assembly Hall.
5. Head.
- 5A. Senior Mistress.
6. Staff.
7. Cloaks.
8. Drying.
9. Lavatory.
10. Offices.
11. Dining.
12. Kitchen.
13. Service Yard.
14. Playground.
15. Stage.
16. Dressing Room.
17. M.I. Room
18. Waiting.
19. Workshop.



SCHOOL

at MOORHEY ROAD, MAGHULL
near LIVERPOOL

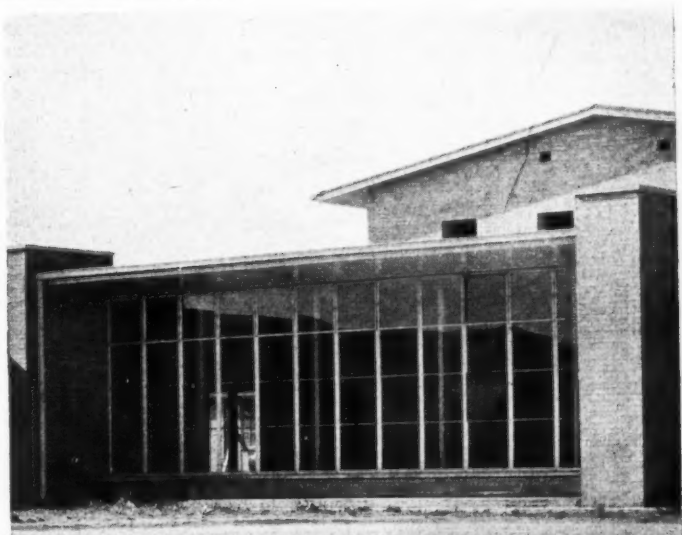
designed by THE LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT

*Below, the foyer with the
assembly hall behind. Bottom,
the interior of the foyer.*

The one form entry junior and infants' school at Maghull is designed to provide accommodation for 200 juniors and 120 infants. Work commenced on the site in January, 1948. The infants' wing was occupied in May, 1949, and the juniors' wing four months later.

Site.—The ground is level and the site covers an area of 8 acres. It is flanked on the south-east side by the Preston to Liverpool railway line and on the other sides by semi-detached houses. *Plan.*—The assembly hall, dining room and kitchen can be isolated from the remainder of the school and can be used for evening community activities. The assembly hall can be converted for use as a cinema. Lavatories are directly accessible from the playground and with the corridors form a barrier between noise from the playground and classrooms. *Construction.*—The frame is of rolled steel and the metal window frames are tapped and screwed to the stanchions. Walls: $4\frac{1}{2}$ -in. facing brick outer skin, cavity, $2\frac{1}{2}$ -in. hollow tile inner skin. Floors, reinforced concrete. Roofs: asbestos decking, except for the assembly hall roof which is covered with wood wool slabs and finished with bituminous felt.

The general contractors were Tysons (Contractors) Ltd. A list of sub-contractors appears on page 268.



Right, a classroom. Below, the main entrance and assembly hall from the west.

SCHOOL

at ORRELL LAMBERHEAD GREEN
near WIGAN

designed by THE LANCASHIRE
COUNTY ARCHITECT'S DEPARTMENT

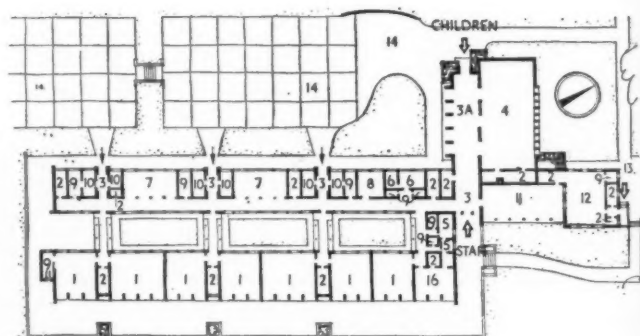


The two form entry infants' school at Orrell Lamberhead Green accommodates 280 children. Thirteen months were taken to complete the building. *Site.*—The ground is subject to subsidences due to mining activities. This has necessitated the use of heavily reinforced concrete foundations. The site covers an area of $4\frac{1}{2}$ acres and slopes to the south-east. *Construction.*—Floors, reinforced concrete. Walls: rolled steel frames, channel stanchions forming mullions to windows. Roofs: aluminium decking, insulated with $\frac{1}{2}$ in. fibreboard, covered with 2-ply felt, kitchen roof covered with asbestos decking. *Services.*—Lighting, tungsten. Heating: low-pressure hot water, oil-fired boilers; convectors in foyer, assembly and dining rooms.

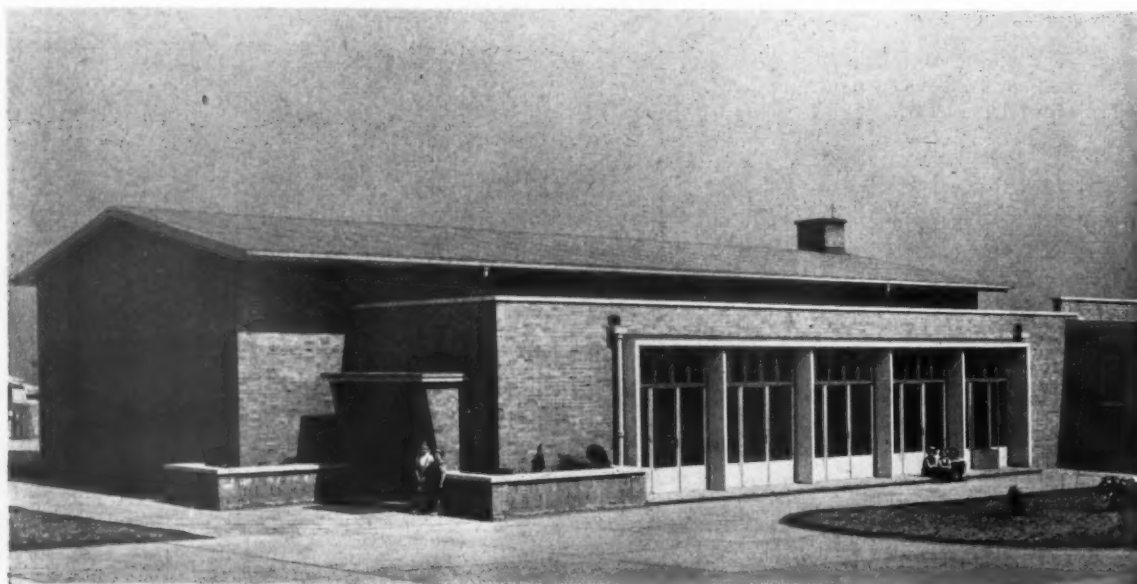
The general contractors were W. J. Bickerstaff and Sons. A list of sub-contractors appears on page 268.

KEY

- | | | |
|----------------------|------------------|-------------------|
| 1. Classroom. | 6. Staff. | 12. Kitchen. |
| 2. Store. | 7. Cloaks. | 13. Service Yard. |
| 3. Entrance Foyer. | 8. Drying. | 14. Playground. |
| 3A. Exhibition Hall. | 9. Lavatory. | 15. Waiting. |
| 4. Assembly Hall. | 10. Offices. | 16. M.I. Room. |
| 5. Head Mistress. | 11. Dining Room. | |



Ground floor plan [Scale: $\frac{1}{4}$ " = 1'0"]





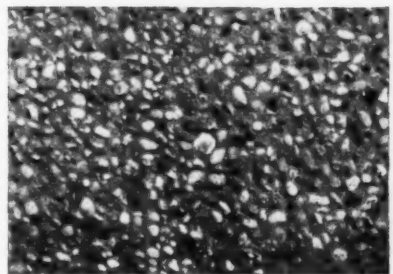
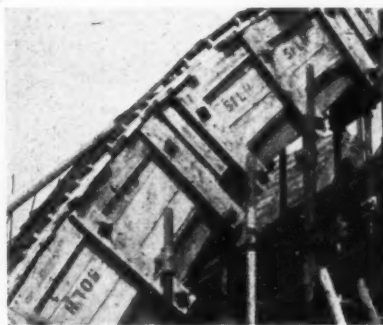
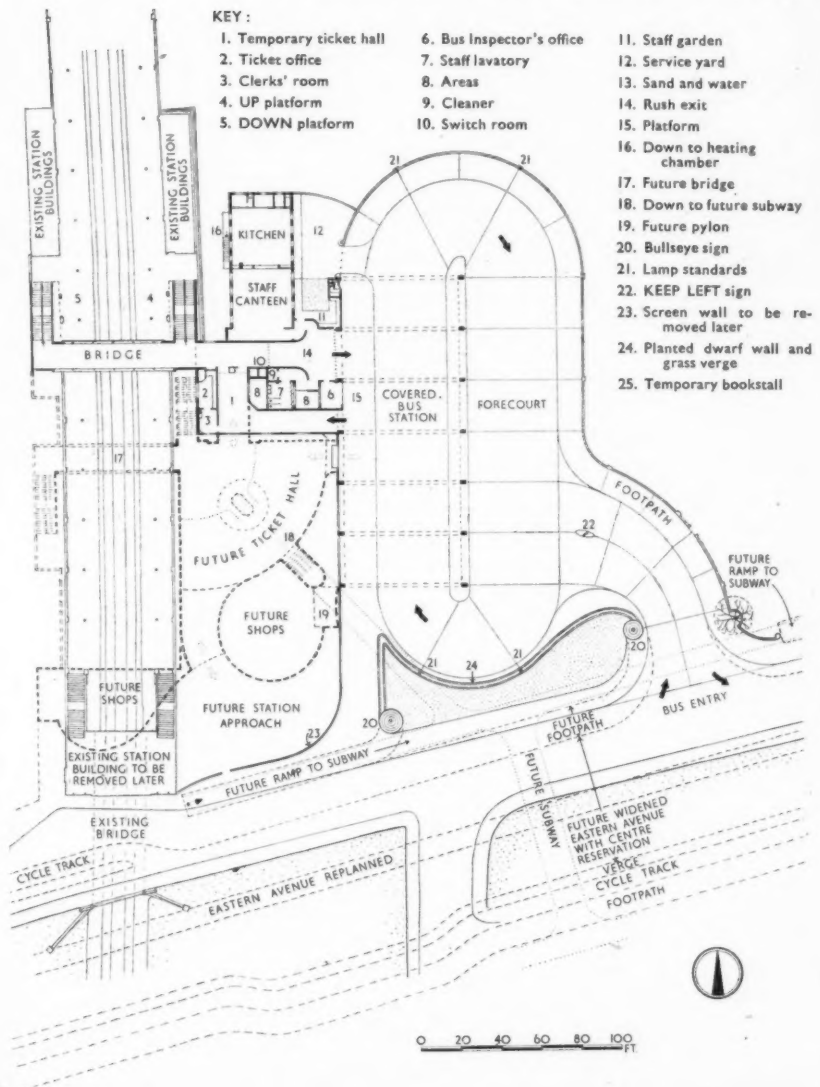
The recent completion of the canteen has concluded the short term part of the London Transport development designed by Oliver Hill (assistant architect, Edward Duley); the remainder must await improvements in the economic situation. We are now able to supplement our earlier review (AJ Dec. 22, 1949) by giving a full technical description of the Bus Station and the Footbridge. The structural design of the former has been criticized as extravagant, but it should be realized that it will eventually form an important part of this extensive scheme.

TRANSPORT BUILDINGS AT NEWBURY PARK

THE BUS STATION

Subsoil: good clay, with gravel 2 ft. down. Foundation: ordinary reinforced concrete (aggregate, $\frac{1}{4}$ in. to $\frac{1}{2}$ in. crushed ballast) 18 in. deep, average size 6 ft. by 5 ft., resting on mass concrete of varying depths. Materials for exposed aggregate work (see photograph): aggregate, $\frac{1}{4}$ in. uncrushed Chesil Beach pea gravel; sand, mixture of equal part silver sand and fine builders' sand; mixture, 1:2:4. Shuttering very carefully made, but not lined, resurfaced after each use. Shuttering for exposed work: generously treated with retarder. Arched roof double shuttered up to 20° slope. Main reinforcement for ribs: 12 $\frac{1}{4}$ -in. dia. mild steel bars. (N.B.—Size of ribs is greater than required by engineers, on aesthetic grounds.) Arched roof: normal continuous concrete slab, reinforced with $\frac{1}{4}$ -in. dia. rods at 8 in. centres and $\frac{1}{4}$ in. dia. distributing rods at 12 in. centres. Rainwater down pipes: 4-in. dia. copper, encased in alternate ribs. Roofing: 32 gauge copper sheets laid on felt in 1 ft. 6 in. widths, with upstand welt of 1 in. All sheets cut diagonally at 45° and fixed alternately with copper clips to small dovetailed wood blocks cast in concrete forming herringbone pattern (see photo on right).

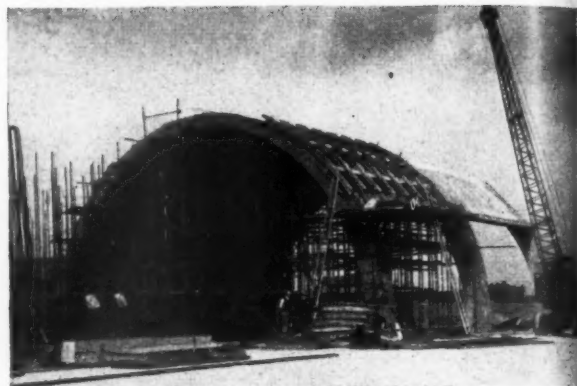
Consulting RC Engineers, Messrs. Considere Constructors Ltd. Quantity Surveyors, Messrs. Grimwade & Ainsley. General Contractors, Messrs. Higgs & Hill Ltd. Sub-contractors, see page 268.



Top, plan of entire scheme, future work shown with broken line; above, close-up of rib shuttering; above right, copper roofing; right, finish of exposed aggregate work.



First rib complete, shuttering erected for second rib.



First bay complete, shuttering being erected for second bay.

BUS SHELTER

The first operation was to erect two bays of tubular scaffolding to support the shuttering. When these were in position the soffit framework to rib 1 was erected, and reinforcing rods to the rib were set up, followed by side and top shutters, the latter up to a 20° slope only.

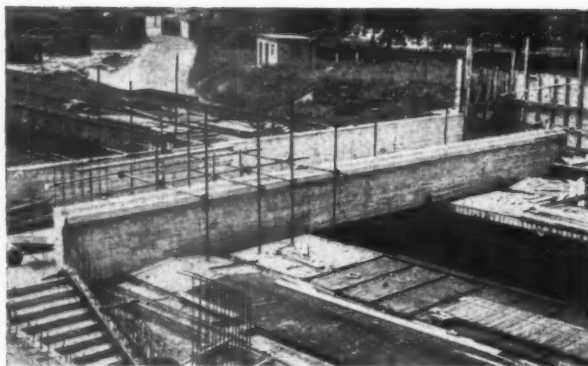
A series of traps was left in the outer face of the rib shutters to allow concrete to be poured. Each rib was concreted in one operation and completed in about 7 hours. Owing to the unusual shape of the building it was not convenient to use a fixed hoist, and a mobile crane with a 40-ft. jib was hired for this purpose, picking up the concrete in 4-yd. skips from the mixer and

hoisting wherever needed. To avoid uneven pressure during concreting, each rib was filled in 6-ft. stages to alternate sides. Great care had to be taken during concreting to keep concrete from being poured against the sides, as this would have rubbed the retarder from the shutters.

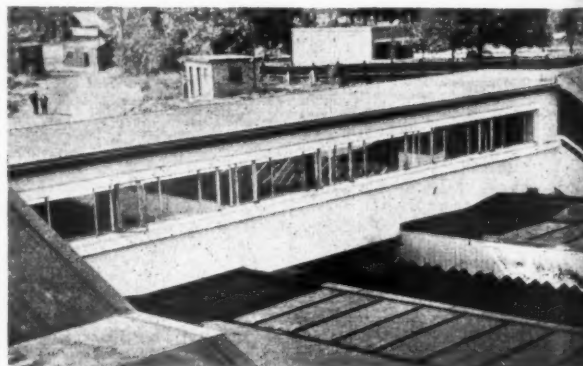
After the completion of rib 1 the period allowed by the consulting engineers for striking was revised, the foreman being allowed to use his own discretion, and it is interesting to note that each of the six remaining ribs were concreted one day and the side shutters taken off the next. This proved a great aid to brushing out cement from surfaces, the result of which can be seen in the photograph on page 263.

Owing to restriction on timber, only one set of shutters for one rib and one panel was available for the job, plus one rib soffit. This second soffit was erected to rib 2 and reinforcing rods were set up, thus being ready for side and top shutters as they were struck from rib 1. When rib 2 was concreted, shuttering was erected between the ribs for the 6-in. roof slab. This sequence of operations was repeated for each successive bay.

Concreting to the 6-in. slab in each bay was done in four stages, and was aided by the use of mechanical vibrators, up to the 20° slope. Shuttering to the bays was struck in 4 days.



The footbridge during construction.



The footbridge completed.

FOOTBRIDGE

The first operation was to excavate for and form normal concrete bases for the two columns on each platform 60 ft. apart. When this was complete, steel reinforcement was erected, over which 15-in. dia. spun concrete tubes, in 3-ft. lengths, were threaded to form permanent shuttering into which the concrete was poured, thus giving a smooth finish to the columns.

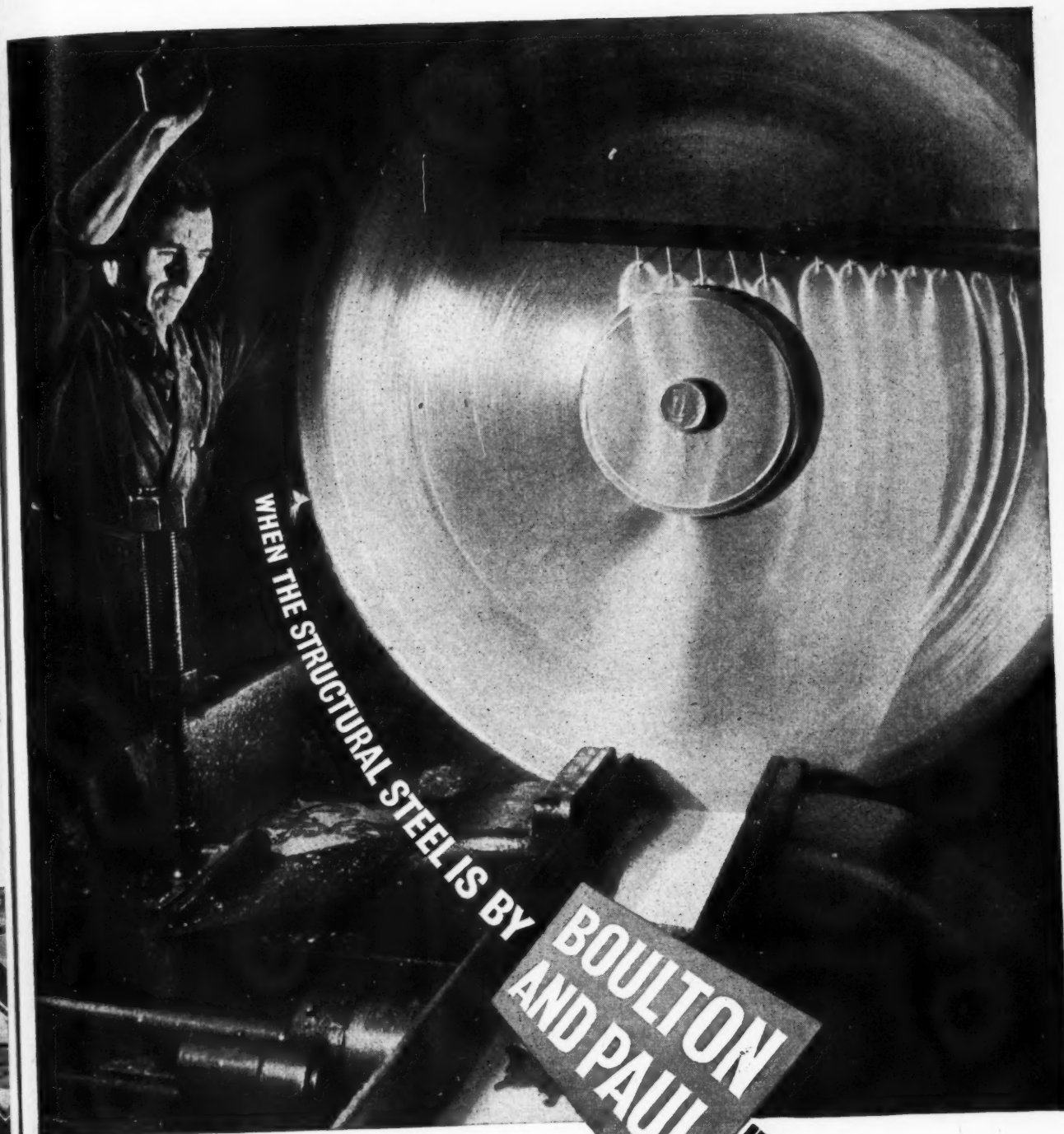
Into the top of each column were cast two 14-in. bolts to hold down the large rolled

steel girders which carry the footway. As the line was electrified and normal traffic had to be maintained, the girders could only be erected during the night after all traffic had stopped and electricity was cut off. The girders were delivered to Leyton goods yard and brought from there on a steam train, together with a mobile crane which was used to hoist them from the trucks into their position on the tops of the columns. The operation proved very successful. The train arrived at 2.10 a.m. and shunted into position; the girders were hoisted and bolted

down, and the train left the site at 3.35 a.m.

The next operation was to encase the girders in concrete, forming a seating on the inside at low level to carry pre-cast concrete units forming the footway.

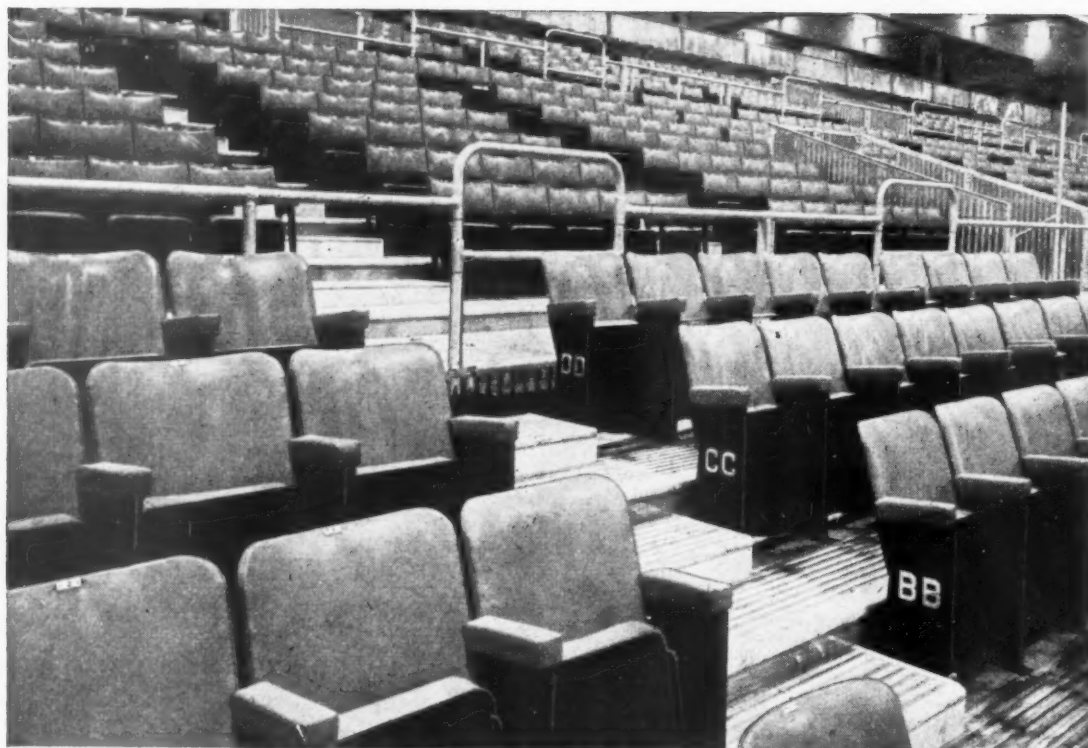
Simultaneously with the construction of the bridge, new concrete staircases were formed connecting to the up and down platforms. The roof was asphalted with copper flashings.



1,000 tons of steel was used in the construction of a storage shed for the West Norfolk Farmers Manure & Chemical Co. Ltd., at King's Lynn. The shed had to be built on a difficult site presenting some unusual constructional problems. Fabrication took place at the works of Boulton & Paul in Norwich and all erection was carried out on the site by the Company's own staff.

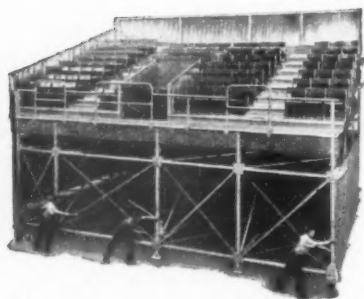
NORWICH • LONDON • BIRMINGHAM

IT'S A FIRST CLASS JOB



Consulting Engineer: Martin I. Addams, B.Sc.(Eng.), A.M.I.C.E., A.C.G.I., M.I. Struct.E.

EXTRA SEATING ACCOMMODATION TODAY- COMPLETELY CLEAR SPACE TOMORROW



The large increase in the seating accommodation at Earls Court Stadium is made possible by Mobile Units each capable of seating up to 150 people. These were designed to specification and constructed by Hills (West Bromwich)

Limited from T.I. Aluminium Alloy Sheet and Extrusions. Mounted on Castors the Units can be moved by only four men and the entire additional seating can be cleared away in less than 24 hours. This seating arrangement is typical of the almost limitless applications for which T.I. Aluminium is suitable and which are winning the approval of larger and larger audiences in all branches of industry.

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

TECHNICAL SECTION

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order, headings below.

INFORMATION CENTRE

19.102 construction: details SHELL CONCRETE

Concrete Shell and Barrel Roofs. (Cement & Concrete Association. 1950.)

Twenty-two examples of shell and barrel roofs. Each well illustrated with small scale plan, section and photographs. Very brief notes of main dimensions and features of the constructions illustrated.

This is an interesting publication in that it shows a good collection of recent British examples of this development in concrete design. Drawings are clear and photographs good. Unfortunately there is no general data and no guidance for architects about what can or cannot be done—except what can be inferred from a close study of all the examples. There is no information on costs—not even of a general nature. There is one very slight reference, in the half page introduction, to the use of standardised form-work. Surely this must be a vital consideration and one wonders whether something really big in the way of standardisation could be done here in order to reduce costs to a level which would put this useful form of construction within easy reach of many who at present reject it as too expensive. Surely some standardisation could be achieved while still leaving designers free enough to meet their varying needs. Special cases could still be met by special form-work where it could be justified.

An interesting publication but not as useful as it could have been.

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.

22.49 acoustics ADJUSTABLE REVERBERATION TIME

Rooms with Reverberation Time Adjustable Over a Wide Frequency Band. P. Arni. (J. of Acoustical Society [USA]. Vol. 22, No. 3. May, 1950. p. 353.)

Wall linings providing a quick change of acoustics. Useful.

The walls of a studio are lined with a sandwich of slag wool and perforated thin plywood, with an air-space behind. Half of the panels are hinged to the alternate halves, which are attached to the walls. The hinged halves can be closed over those which are fixed, and then present an unabsorbent face. The panels are linked and the room can be changed silently in 10 sec. from a reverberant to a non-reverberant room.

The system is much cheaper and simpler than most of the previous types, especially those which are mechanised. Although it is suggested for several types of rooms, it is likely that it has its best use in studios, where it can be controlled to known requirements.

23.135 heating and ventilation DOMESTIC HEATING

Solid Fuel Housecraft. Elspet Fraser-Stephen. (Crosby Lockwood & Son Ltd. 1950. Price 9s. 6d.)

Good up-to-date book intended for domestic teachers. Contains useful descriptions of domestic appliances.

For many years it has been regularly complained that the results of scientific research and experiment have not been applied

Readers requiring up-to-date information on building products and services may complete and post this form to *The Architects' Journal*, 9, 11 and 13, Queen Anne's Gate, S.W.1.

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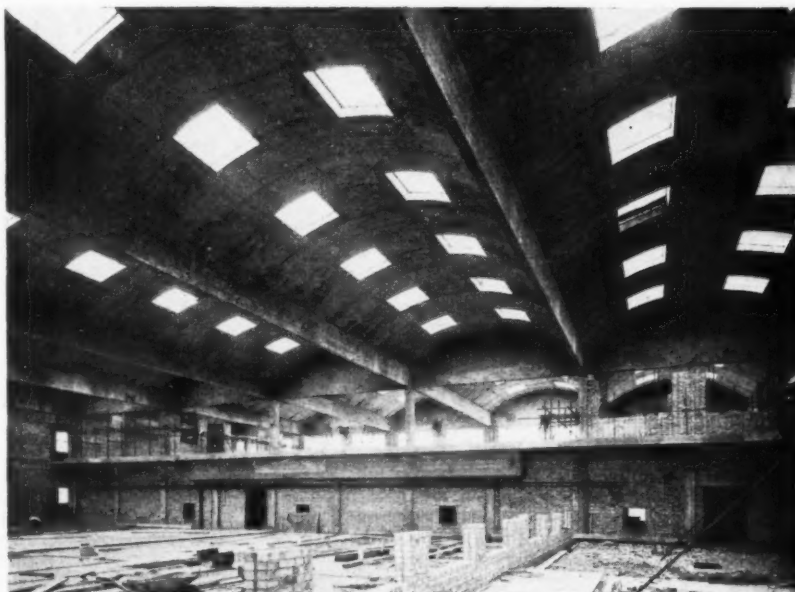
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A.J. 21.9.50

sufficiently quickly. It is generally recognized that the link between the research worker and the architect has not been sufficiently strong, but quite often the architect is hindered by a lack of appreciation on the part of his client of the value of recent developments. Anything, therefore, which helps to educate the layman is of interest, and especially so when the



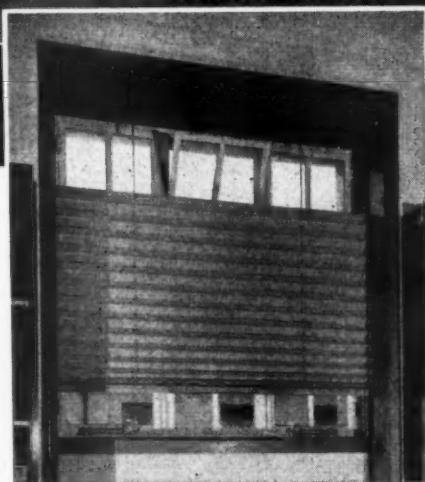
Dairy at Mansfield, five shell concrete barrel vaults. See 19.102.



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things concerned enter into the daily life of the people in the way that domestic heating appliances do. The very considerable developments of domestic heating appliances which have been made in recent years have been fairly well publicized at the architect's level, but the general public are still all too ignorant. The present book is a noble attempt made by the energetic Women's Advisory Council on Solid Fuel to remedy the situation by providing domestic science teachers with up-to-date and reliable information on domestic heating.

The book deals with the history of the domestic fire, the type of coal and methods of its distribution, and then goes on to give some very good descriptions of main types of domestic heating appliances with critical appreciations of their performance. This part of the book might well be a useful introduction to the subject for architectural

students. Hot water heating and home circulation are also dealt with briefly.

Not really a book for the architect, but one which architects might well recommend to their clients, especially to local authority housing committees.

25.77 water supply and sanitation

ENAMELLED PIPES

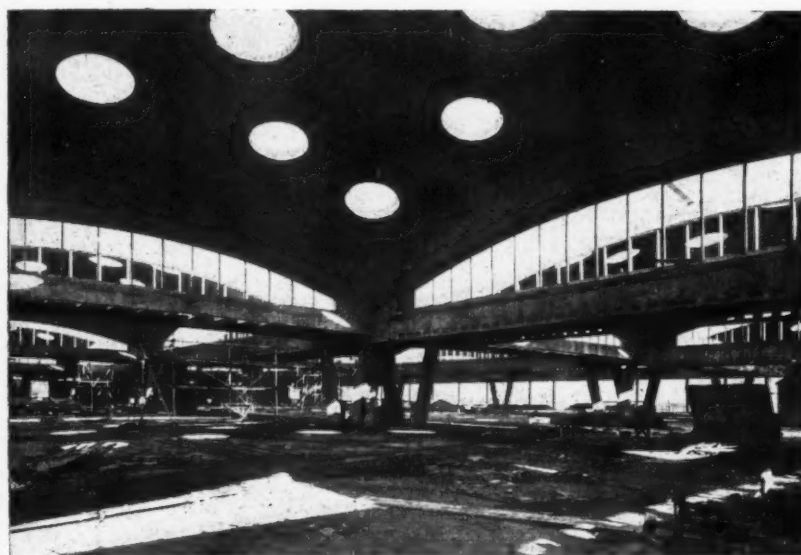
Factory Processes No. 1. From Steel Plate to Finished Pipe. (Architect and Building News, July 14, 1950.)

Brief description of manufacture of enamelled soil, waste and rainwater pipes. Photographs. Chief architectural points are permanence of colour, low maintenance cost, limited colour range which excludes cream. Good performance in wide range of climate.

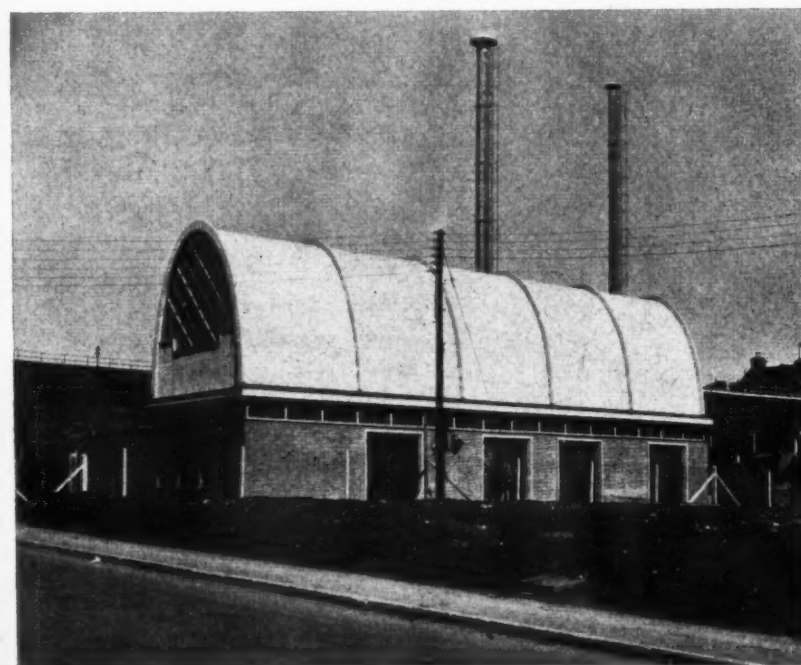
Buildings Illustrated

Three Form Entry Secondary Modern School for Girls at Sterrix Lane, Litherland, nr. Liverpool, Lancashire. (Pages 255-259.) Designed by the Lancashire County Architect's Department: G. Noel Hill, F.R.I.B.A., M.T.P.I., County Architect. General contractor: Wm. Tomkinson & Son Ltd. Sub-contractors: "Accotile" and wood block flooring, R. W. Brooke & Co. Ltd.; asphalt flooring, Highway Construction Ltd.; "Korkoid" linoleum, Rowan & Boden Ltd.; rubber flooring, Stevens & James; terrazzo tiles and w.c. partitions, Conways Ltd.; Semtex flooring, Semtex Ltd. Suspended ceilings, Sundeala Board Co. Ltd.; Tentest Fibre Board Co. Ltd.; G. E. Robinson & Co. Ltd. (Celotex); Gyproc Products Ltd.; Beaumonts (Manchester) Ltd. (Anderson's Suspended Ceilings); The Bracketing, Centreing & Lathing Co.; William Evans & Co. (Lloyd Talon Components). Artificial stonework, Pearson Bros. & Campbell Ltd.; balustrading to staircases, W. & R. Leggott Ltd.; bricks, Proctor & Lavender Ltd.; broadcast reception system, Communication Systems Ltd.; boilers, Ideal Boilers & Rads. Ltd.; cupboards and fittings, The Roachwood Co.; cloakroom fittings, Clarke Hunt & Co. Ltd.; electrical installation, H. J. Cash Co. Ltd.; egg-crate laylight, Carowe Electrical Co. Ltd.; classroom desks and chairs, Educational Supply Association Ltd.; heating installation, C. Seward & Co.; heating control panel, Rheostatic Co. Ltd.; ironmongery, Laidlaw & Thompson Ltd.; light fittings, Hailwood & Ackroyd Ltd.; paint, Leyland Paint & Varnish Co. Ltd.; roofing, Ruberoid Co. Ltd., Wm. Briggs & Son Ltd.; stage equipment and lighting, Watts & Corry Ltd., Strand Electric Co. Ltd.; lightning conductors, W. J. Furze & Co.; grounds laid out by Maxwell M. Hart.

One Form Entry Junior and Infants' School at Butterstile Lane, Prestwich, nr. Manchester, Lancashire. (Page 260.) Designed by the Lancashire County Architect's Department. General contractor: J. Gerrard & Sons Ltd. Sub-contractors: Rolled steel joists and angles, James E. Norris & Co. Ltd.; concrete reinforcement, Matthews & Mumby; structural steelwork, Robert Watson & Co. (Construction Engineers); steel fabric reinforcement, "Twistee" Reinforcement Ltd.; iron railings, William Gratrix & Sons Ltd.; reinforced decking units, Universal Asbestos Manufacturing Co. Ltd.; damp courses, Ruberoid Co. Ltd.; gas service appliances, Radcliffe, Farnworth & District Gas Co.; tubular railings, J. Gerrard & Sons Ltd.; terrazzo partitions, tile paving, Conways (Tile & Terrazzo) Ltd.; central heating and hot water service, Brightside Foundry & Engineering Co. Ltd.; cast stone, Pearson Bros. & Campbell Ltd.; plymax doors, Venesta Ltd.; steel door and frame, boundary railings, Thos. Blackburn & Sons Ltd.; electrical installation, Victoria Radio & Elec. Co.; steel door frames and swing doors, metal screens, Henry Hope & Sons Ltd.; glare baffles, Ferro-concrete (Lancashire) Ltd.; aluminium decking, D. Anderson & Son Ltd.; aluminium fascias, John Thompson Beacon Windows Ltd.; metal windows and doors, Rea Metal Casements (1932) Ltd.; suspended ceilings, Sundeala Board Co.; asphalt flooring, General Asphalt Co. Ltd.; korkoid flooring, Rowan & Boden Ltd.; floor springs, James Gibbon Ltd.; light fittings, Best & Lloyd Ltd., Hailwood & Ackroyd Ltd.; sanitary goods, Rowe Bros. & Co. Ltd.; ironmongery, Quiggin Bros.; fire-fighting equipment, S. Dixon & Sons Ltd.; cloakroom equipment, Cloakroom Equipment Ltd.; electric clocks, The Magneto



Factory at Brynmawr, South Wales. Above, Thin-Slab Concrete Dome; below, Boiler House, Parabolic Concrete Roof. See 19.102.



Time Co. Ltd.; electrical equipment, Merchant Adventurers Ltd.; radio and gramophone equipment, Audix B.B. Ltd.; lightning conductors, W. J. Furze & Co. Ltd.; grounds laid out by Maxwell M. Hart.

One Form Entry Junior and Infants School at Moorhey Road, Maghull, nr. Liverpool, Lancashire. (Page 261.) Designed by the County Architect's Department. General contractors: Tysons (Contractors) Ltd., Liverpool. Sub-contractors: Welded fabric, Ferrocon Engineering Co. Ltd.; structural steelwork, Robinson & Kershaw Ltd.; decking units, Universal Asbestos Manufacturing Co. Ltd.; precast concrete corridor, Matthews & Mumby Ltd.; roofing, Ruberoid Co. Ltd.; waterproof membrane, William Briggs & Sons Ltd.; electrical installation, Glyn Nuttall Ltd.; steel door frames, Joseph Sankey & Sons Ltd.; metal windows, Williams & Williams Ltd.; aluminium fascia, Carowe Electrical Co. Ltd.; stone dressings, Concrete Unit Co. Ltd.; central heating and hot water services, J. Brookes & Co.; steel doors and frames, John Booth & Sons (Bolton) Ltd.; fire resisting doors, Flexo Plywood Industries Ltd.; glare baffles, precast concrete partitions, Forticrete Ltd.; sanitary fittings, Associated Clay Industries Ltd.; washing fountains, W. E. Farrer Ltd.; ironmongery cloakroom fittings, James Gibbons Ltd.; terrazzo, Conways (Tiles & Terrazzo) Ltd.; glazed tiles, Shaw Glazed Brick Co. Ltd.; hose reels, Joseph & James Hall Ltd.; railings, Wm. Gratrix & Sons Ltd.; flooring, Neuchatel Asphalte Co. Ltd.; "Aranbee" & "Accotile" flooring, Rowan & Boden Ltd.; Granwood block flooring, Granwood Flooring Co. Ltd.; suspended ceilings, Eastwoods Specialist Ltd.; steel rolling shutters, Heskins Rolling Shutters Ltd.; trough corridor fittings & roof lights, Falk, Stadelmann & Co. Ltd.; suspended ceilings, Sundeala Board Co. Ltd.; W. J. Holloway & Bros. Ltd.; decorative lighting fittings, General Electric Co. Ltd.

Two Form Entry Infants School at Orrell Lamberhead Green, near Wigan, Lancashire. (Page 262.) Designed by the Lancashire County Architects' Department. General contractors: W. J. Bickerstaff & Sons Wigan. Sub-contractors: Steelwork, boundary railings, Thomas Blackburn & Sons, Ltd.; high tensile welded fabric, Ferrocon Engineering Co. Ltd.; precast channel units, Matthews & Mumby Ltd.; cement decking units, Universal Asbestos Manufacturing Co. Ltd.; sanitary goods, Rowe Bros. & Co. Ltd.; aluminium roofing, D. Anderson & Son Ltd.; electrical installation, Potter, Towler & Co. Ltd.; terrazzo partitions, Conways (Tiles & Terrazzo) Ltd.; precast concrete baffles, Forticrete Ltd.; aluminium fascias, John Thompson Beacon Windows Ltd.; metal screens, Gardiner Bros. & Co. Ltd.; steel doors and frames, Crittall Manufacturing Co. Ltd.; asphalt flooring, Highways Construction Ltd.; cast stone, Pearson Bros. & Campbell Ltd.; heating and hot water apparatus, E. A. Sprigg (Engineering Construction) Ltd.; cloakroom equipment, Cloakroom Equipment Ltd.; aluminium windows, Gardiner Sons & Co. Ltd.; wood block flooring, R. W. Brooke & Co. Ltd.; "Korkoid" flooring, Rowan & Boden Ltd.; "Flexicrete" flooring, Standard Pavements Co. Ltd.; door furniture, James Gibbons Ltd.; ironmongery, N. F. Ramsay & Co. Ltd.; fire lighting equipment, S. Dixon & Sons Ltd.; electrical installation, Corlett Electrical Engineering Co. (1933) Ltd.; electrical equipment, Merchant Adventurers Ltd.; wireless and gramophone equipment, Audix B.B. Ltd.; entrance gates, Hill & Smith Ltd.; electric clock system, The Magneto Time Co. Ltd.

Agricultural Cottages, Newton Harcourt, Leicester. (Page 212 A.J. for August 31, 1950). Architect: Henry G. Goddard, D.S.O., D.F.C., A.F.C., M.A., F.R.I.B.A. General Contractors: H. V. Batchelor & Co. Ltd. Sub-contractors: Plumbing and hot water

supply, Walter Allen & Son Ltd.; electrical work, Messrs. H. Reeve; bricks, The London Brick Company Ltd.; combination grate, The Grangetown Foundry Ltd.; calorifier, The Rolyat Tank Co. Ltd.; sanitary fittings, John Bolding & Sons Ltd.; door and window furniture, Adrian Stokes Ltd.; paint, Imperial Chemical Industries Ltd.; radiators, Habin Ltd.

Newbury Park Bus Station, Eastern Avenue, Newbury Park, Ilford (pages 263-264). Architect: Oliver Hill, F.R.I.B.A. Assistant Architect: Edward Duley, L.R.I.B.A., A.I.A.A. London Transport Executive Liaison Architect: G. C. Manly, L.R.I.B.A. General contractor (inc. reinforced concrete): Higgs & Hill Ltd. Sub-contractors: asphalt, Excel Asphalte Co.; concrete blocks, Emerson & Norris; facing bricks, Daneshill Brick & Tile, S. & E. Colliers; stocks and flettons, Hall & Co.; slate, J. W. Jenkins & Co.; structural steel, Matthew T. Shaw; special roofings, copper, L. Carter & Son; ruberoid, felt, Ruberoid Co.; glass, Aygees; patent glazing, dome light, Pilkingtons; patent flooring and art pavements, Semtex; central heating, gas-fitting, boilers, Gusterson; stoves, John Wright & Co.; electric wiring, heating, ventilation, bells, shrubs and trees, LTE (Signals) and LTE Garden & Horticultural Section; plumbing, water supply, W. H. Gascoyne; sanitary fittings, Shanks; door furniture, Nettlefolds; casements, window furniture, Wiggins Sankey; folding gates, rolling shutters, Haywards; handrails, barriers and staircases, Light Steelwork; plaster, Plastering Ltd.; decorative plaster, Tyrolean finish, Cement Marketing; metalwork, fittings (anti-flu sash), Sage; general joinery, joinery fittings, Barkle, Wiggins Sankey; canteen shelving, George Fife; kitchen equipment, R. Crittall & Co., Jackson; refrigerator, Pressed Steel Co.; signs, reflex, Gowshalls Ltd.; decorations, Cementone, Stic B, Fields Ltd.



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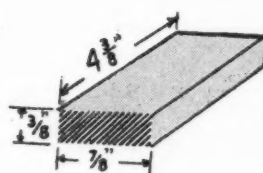
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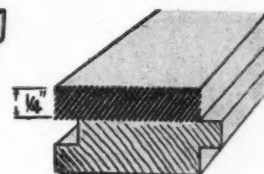
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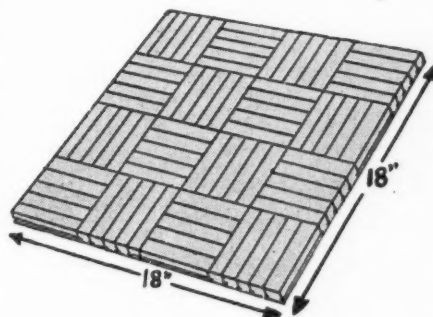


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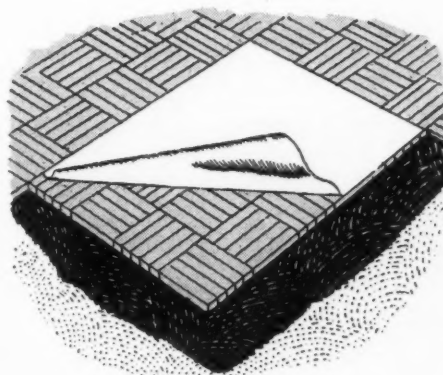


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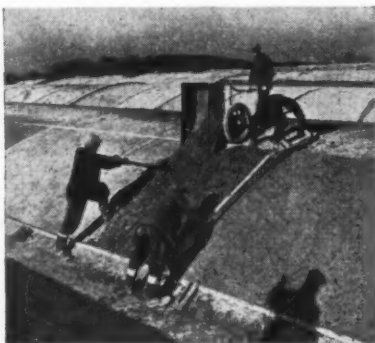
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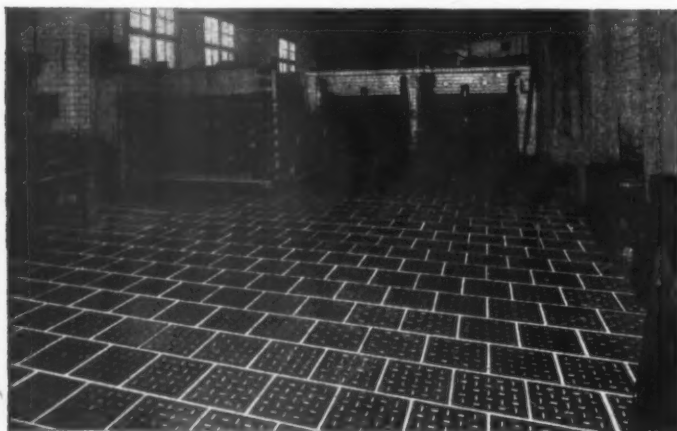
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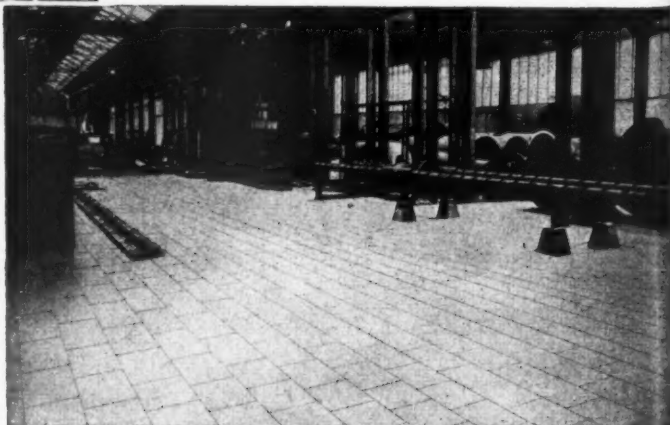
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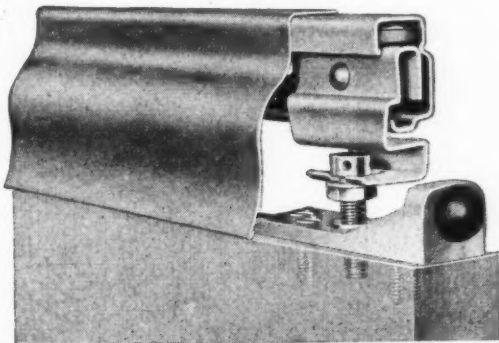
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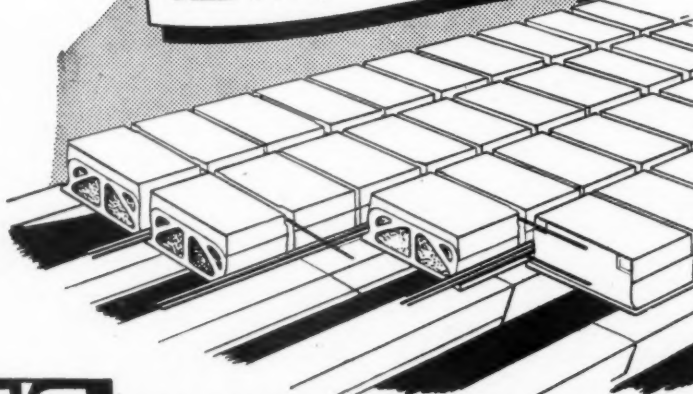
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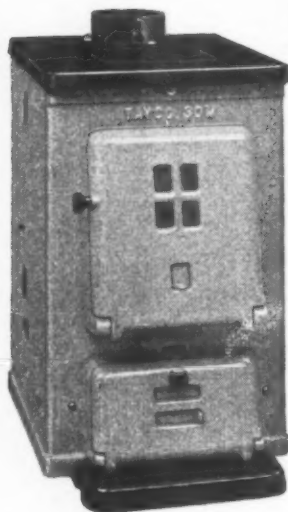
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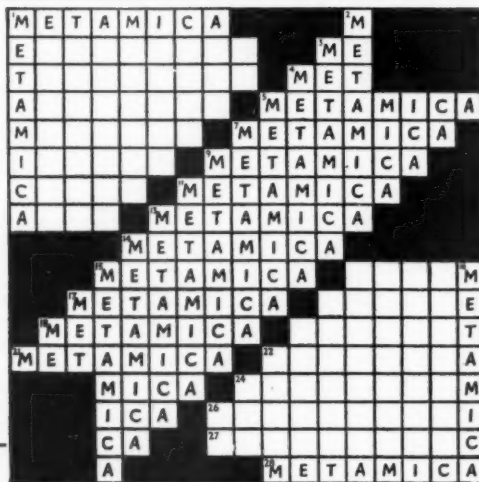
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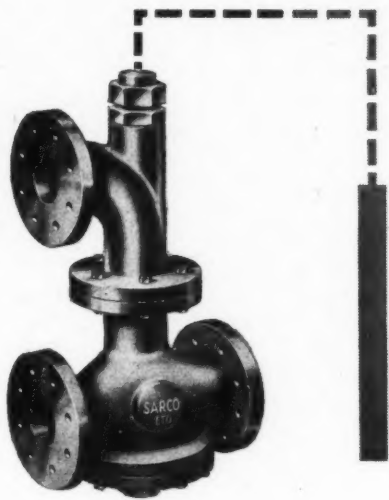
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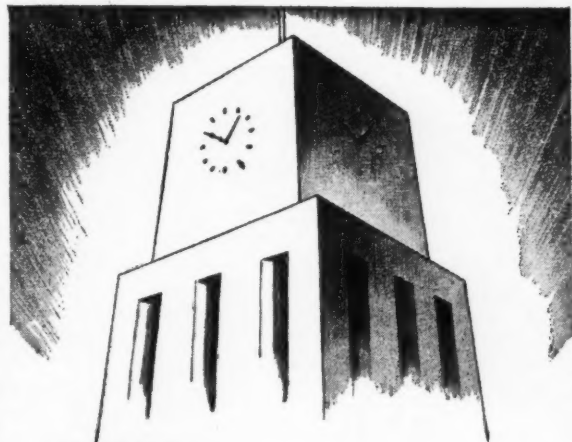


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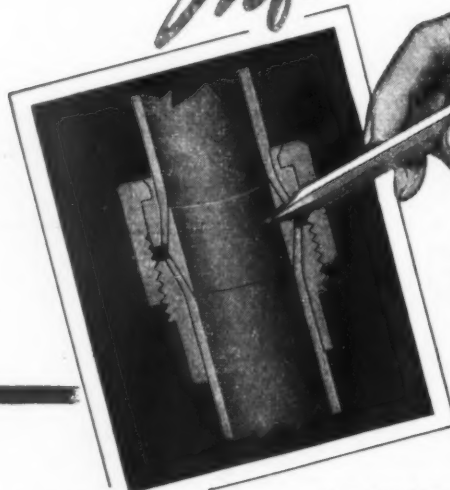
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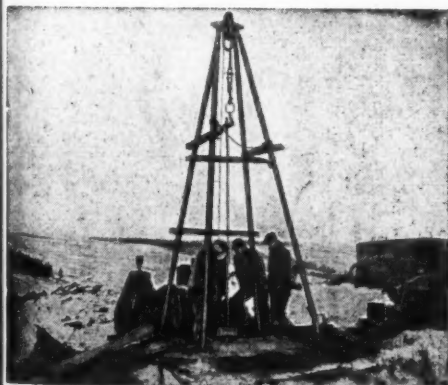
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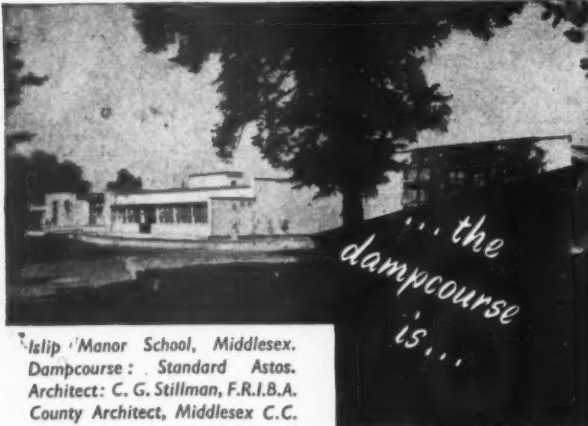
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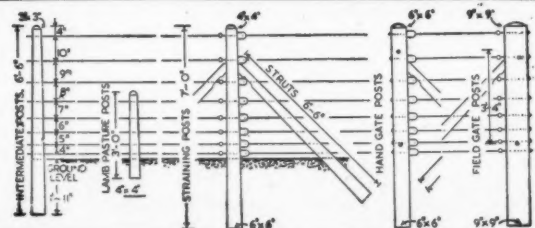
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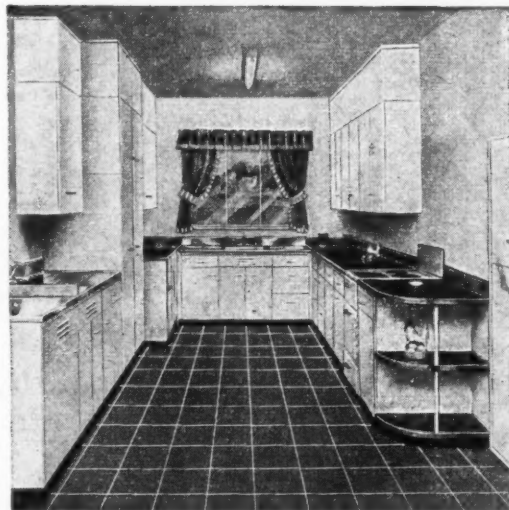
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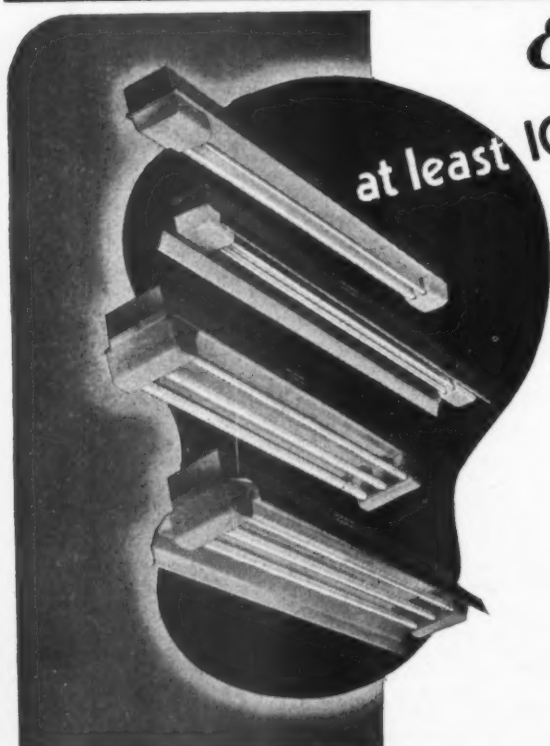
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Replies to Box Numbers should be addressed care of 'The Architects' Journal,' at the address given above.

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WYTHELEAF, Tel.: Uplands 0935. 991

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £650 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference '67'. 4341

LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £500 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, 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 assist in 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.

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 reference A.A.) Canvassing disqualifies. (816) 4558

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT. Applications are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT (up to £580) for work on new housing, schools, and other public buildings. The positions are superannuable. Candidates for Grade III positions should possess professional qualifications. Application forms from the Architect (A.R.P./S), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (384) 3914

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ARCHITECT'S DEPARTMENT. Applications are invited for the following appointments:—

SENIOR ASSISTANT ARCHITECT. Established post. Salary Grade A.P.T., VII, £635-£710 per annum.

The position is Section Head in charge of housing, and applicants must be experienced in this type of work under Local Authorities, must be Registered Architects, and should be Members of the R.I.B.A.

TWO-THIRD ARCHITECTURAL ASSISTANTS. Established posts. Salary Grade A.P.T., II, £420-£465 per annum.

Applicants must have passed R.I.B.A. Intermediate Examination and have had subsequent experience in an architectural office.

CLERK OF WORKS. Unestablished post. Salary £360 per annum, rising after one year's satisfactory service to Grade A.P.T., I, £390-£435 per annum.

The successful candidates for the architectural positions will be appointed at their present salary if such salary is within the incremental scale of the advertised posts.

The above appointments will be terminable by one month's notice in writing on either side, and subject to the provisions of the Local Government Superannuation Act, 1937, also to the conditions of service in accordance with the National Scheme.

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

No assistance can be offered regarding housing accommodation.

Applications, on forms to be obtained from the Borough Architect, Town Hall, Bournemouth, accompanied by copies of three recent testimonials, to be returned to the undersigned in envelopes endorsed "Staff Architectural," not later than 9 a.m. Saturday, 30th September, 1950. A. LINDSAY CLEGG, Town Clerk. 824

THE ROAD HAULAGE EXECUTIVE invite applications for the following posts at Headquarters:—

ARCHITECT (S.89). Applicants must be fully qualified members of the Royal Institute of British Architects; have had considerable experience in the design and erection of all classes of buildings, particularly those of a light industrial character; possess administrative experience, and be able to control a technical staff. Salary within the range £1,250-£1,500.

ARCHITECTURAL ASSISTANT (S.90). Applicants should possess considerable experience in the preparation of preliminary and working drawings for large projects, preferably industrial, be competent to take charge of contracts with slight supervision, and Members of the R.I.B.A. or hold equivalent qualifications. Salary range £650-£700.

ARCHITECTURAL DRAUGHTSMAN (S.91). Applicants must be able to prepare working drawings and details, be neat and accurate draughtsmen, have had a minimum of five years' experience in drawing offices. School training will be considered an advantage, and they must have passed the Intermediate examination of the R.I.B.A. Salary within the range £505-£555 or £580-£630, according to qualifications and experience.

QUANTITY SURVEYOR (S.92). Applicants must have had good experience in offices of surveyors in private practice or contractors of standing, and be capable of the complete preparation of approximate estimates from preliminary drawings. The work will include specification writing, dealing with sub-contractor's estimates and the settlement of accounts. R.I.C.S. qualifications an advantage. Salary range £650-£825.

Applications, in duplicate, quoting the appropriate reference, should give date of birth, qualifications, experience, present post and salary, together with any other relevant information, and be sent to the Chief Staff and Welfare Officer, 222, Marylebone Road, London, N.W.1. Selected candidates will, if 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. 791

COUNTY BOROUGH OF NEWPORT.

PLANNING ASSISTANT. Salary A.P. and T. Grade IV, £480-£525 p.a. Applicants must have had experience in the control of development and the general routine of a Planning Department. Details of duties and forms of applications to be obtained from me, must be received by the 12th October, 1950.

H. F. ALSTON,

Borough Planning Officer.

Corn Exchange Chambers, Thomas Street, Newport, Mon. 790

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LOCAL GOVERNMENT ACT, 1948. Applications are invited for the following appointments:—

(1) TEMPORARY ESTIMATORS (RATING). Salary £400-£750 p.a., according to age, experience and qualifications. Estimators are required to assist in the survey and costing of post-1918 dwelling-houses. Some experience of building construction is essential, and a knowledge of building trade pricings will be an advantage.

(2) REFERENCERS (RATING). Salary £200-£450 p.a., according to age and experience. Referencers are required to measure land and buildings, compute areas and cubic contents of buildings, etc. Previous experience of similar work is necessary.

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Write (quoting J 241.B/50 and appropriate post No.) to Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, for application form. 789

APPOINTMENT OF ARCHITECT AND TOWN PLANNER.

MUNICIPALITY OF PENANG, MALAYA.

Applications are invited for the post of Architect and Town Planner on the permanent staff of the Municipal Engineer's Department. Qualifications: A.R.I.B.A., with experience in Town Planning. Preferably with A.M.T.P.I. and unmarried.

Basic salary scale \$430-\$900 per month. Starting point according to qualifications and experience. Graduated scale of allowances, e.g., present allowances on basic salary of \$610 p.m. are: Expatriation \$150 p.m., plus cost-of-living \$150 p.m. for single man or \$300 p.m. for married man, or \$305 p.m. for married man with family. One Malayan dollar equals 2s. 4d. Thus a married man with family on a basic salary of \$610 p.m. would draw equivalent of £1,491 per annum.

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Applications in duplicate, with full personal and technical information, and copies of three testimonials, to Messrs. Peirce & Williams (Agents to the Municipal Commissioners), 1, Victoria Street, London, S.W.1, before Friday, the 6th October, 1950. 809

BOROUGH OF CHIPPENHAM. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Borough Surveyor and Water Engineer's Department, at a salary in accordance with the National Scheme of Conditions of Service for Local Government Officers, that is A.P.T., Grades III to V, according to professional qualifications. The appointment will be subject to the above conditions and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Candidates with experience in connection with Municipal Housing Works and other Public Buildings will be given preference.

Applications, in envelopes endorsed "Architectural Assistant," stating age, qualifications, experience, and accompanied by the names of three persons to whom reference can be made, must be received by C. R. Phillips, Borough Surveyor and Water Engineer, not later than Saturday, 30th September, 1950.

S. F. A. CLARKE,

Town Clerk.

The Old Palace, 10, Market Place, Chippenham, Wilts.

7th September, 1950. 825

COUNTY BOROUGH OF DUDLEY. ARCHITECTS.

Applications are invited from qualified Architects for the following posts on the established staff of the Borough Architect's Department, subject to conditions usual to local authorities.

(a) TWO ASSISTANT ARCHITECTS. Grade V, £520-£570.

(b) ONE JUNIOR ARCHITECTURAL ASSISTANT. Grade II, £420-£465.

Applications for (a) must have a good general experience of design and construction, and must be capable of preparing sketch plans, working drawings and details for schools, housing schemes, and public buildings of contemporary design.

Applications, giving the names of three referees, are to reach me not later than Saturday, the 7th October, 1950.

P. D. WADSWORTH,

Town Clerk.

The Council House, Dudley, Worcs.

5th September, 1950. 810

BOROUGH OF HORNSEY. ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the following temporary appointment:—

ARCHITECTURAL ASSISTANT, Grade V (A.P.T. Division of the National Scale), at a salary of £520-£570 per annum, or Grade VI (A.P.T. Division of the National Scale), at a salary of £595-£660 per annum, plus London weighting allowance of £30 per annum in both instances. Grade according to experience.

Candidates should preferably be Associate Members of the Royal Institute of British Architects.

Applications, stating age, present and previous appointments, technical training, qualifications, experience, etc., together with the names of three referees, must be delivered to Mr. J. H. Melville Richards, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Hornsey Town Hall, N.8, not later than the 2nd October, 1950.

Candidates must disclose in writing whether, to their knowledge, they are related to any member or officer of the Council.

Canvassing, either directly or indirectly, will disqualify.

H. BEDALE,

Town Clerk.

Town Hall, Hornsey, N.8.

28th August, 1950. 812

BOROUGH OF SLOUGH.

Applications are invited for the permanent appointment of an ASSISTANT ARCHITECT, within Grade A.P.T., III, of the National Scale, at a commencing salary of £450 p.m. annum, rising, on satisfactory service, by annual increments of £15 to a maximum of £495 per annum.

Applicants must have passed the R.I.B.A. Intermediate Examination or its equivalent, and must give details of experience in housing, municipal building design and general building construction, and state age, marital state, qualifications, technical training, present and previous appointments with dates, together with the names of two architects to whom reference can be made, and disclose whether, to their knowledge, they are related to any member or senior officer of the Council.

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

Applications in sealed envelopes, endorsed "Assistant Architect, Grade A.P.T., III," must reach the undersigned not later than noon on Monday, 9th October, 1950.

The Borough Council is unable to assist the successful candidate with housing accommodation.

Canvassing, directly or indirectly, will disqualify.

NORMAN T. BERRY,

Town Clerk.

Town Hall, Slough.

8th September, 1950. 813

HIS MAJESTY'S COLONIAL RESEARCH SERVICE.

Applications are invited for the post of DIRECTOR (SENIOR PRINCIPAL SCIENTIFIC OFFICER) of the West African Building Research Organisation, which is to be established to serve the needs of the four British West African Territories (Nigeria, Gold Coast, Sierra Leone and the Gambia). The Organisation, which will cover all fields of building research, will probably have its Headquarters in the Takoradi area, Gold Coast, and its scope will, in the first instance, be confined to building questions (as opposed to engineering). The first duty of the Director, on appointment, will be to draw up, in consultation with the four Governments concerned, a scheme for the establishment and future work of the Organisation, including estimates on which future expenditure will be based.

Candidates, who must hold a good honours degree in science or civil engineering, or equivalent qualification, must possess considerable experience in research and have held a post which would qualify them to initiate, direct and supervise investigations into building problems with which the Organisation will be called upon to deal.

The salary will be in the scale of Senior Principal Scientific Officer, £1,320 × £50—£1,520 per annum, plus overseas research allowance at the rate of £235 a year. In addition a temporary cost-of-living allowance is at present payable to officers serving in West Africa. The allowance in the Gold Coast is 15 per cent. of basic salary. If furnished Government quarters are provided a rent of 10 per cent. of basic salary (maximum charge of £150) will be charged. Outfit allowance of £40. Free passages on appointment and on leave for selected candidate and his wife and children under 13 years. Superannuation will be provided in due course under a Colonial Superannuation Scheme, but in the meantime existing F.S.S.U. policies will, where possible, be maintained on usual basis or a gratuity will be payable. Forms of application may be obtained from the Under-Secretary of State, Colonial Office, Research Department, Sanctuary Buildings, Great Smith Street, Westminster, S.W.1. 795

RICKMANSWORTH URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT. Applications are invited for the above permanent appointment in the Engineer and Surveyor's Department. Salary A.P.T., III (£450-£495). Applicants must be experienced in the preparation of plans, specifications and quantities, with particular reference to design of Council houses. Preference will be given to holders of a recognised examination qualification. Applicants must state whether they wish the Council to provide housing accommodation, and any such request will be considered. Applications, endorsed "Architectural Assistant," giving the names and addresses of two referees, to be delivered to the undersigned by 30th September, 1950.

C. G. RANSOME WILLIAMS, Clerk of the Council.

Council Offices, Rickmansworth, 12th August, 1950. 794

METROPOLITAN BOROUGH OF SHOREDITCH.

SENIOR ASSISTANT ARCHITECT. Applications are invited for the appointment of Senior Assistant Architect on the permanent staff of the Council, at a salary in accordance with Grade VII of the National Scale of Salaries, £665-£740 per annum, consolidated.

Applicants should have had a recognised architectural training and be competent to undertake the design and construction of municipal buildings, including multi-storey flats.

Preference will be given to candidates with a recognised architectural qualification.

The appointment will be subject to medical examination, the Council's Superannuation Scheme and General Conditions of Service.

Applications, stating age, training and experience, together with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Tuesday, 26th September, 1950, and endorsed "Senior Assistant Architect."

C. A. JAMES, Town Clerk.

Town Hall, Old Street, E.C.1. 5th September, 1950. 808

BOROUGH OF ILKESTON. APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Department of the Borough Surveyor, at a salary ranging from General Division to Grade III of the National Scale of Salaries, according to training, experience and qualifications.

Applicants should preferably have passed the Intermediate Examination of the Royal Institute of British Architects, and previous local government service will be an advantage.

Applicants must disclose in writing whether or not to their knowledge they are related to any member or senior officer of the Council. Canvassing will disqualify.

Forms of application, conditions of appointment and any other information can be obtained from the undersigned, to whom the applications are to be submitted by 4th October, 1950.

A. O. MARSHALL, M.I.Mun.E., M.I.Struct.E., F.I.A.A.

Borough Surveyor and Water Engineer, Town Hall, Ilkeston. 12th September, 1950. 816

NATIONAL COAL BOARD—WEST MIDLANDS DIVISION.

Applications are invited for the following appointments, with headquarters at Himley Hall, near Dudley, Worcs.

ONE ARCHITECT, Grade II. Salary scale £450 × £25—£700.

Candidates must be Associate Members of the R.I.B.A. or equivalent, and should have experience in the preparation of Survey Sketch Plans, Contract Drawings, Specifications, Site Supervision, etc.

ONE QUANTITY SURVEYOR, Grade II. Salary scale £450 × £25—£700.

Applicants should preferably be Corporate Members of the R.I.C.S. (Quantities Division), and have experience in the preparation of bills of quantities, estimates, measuring up, and settlement of final accounts.

Commencing salary according to experience and qualifications.

Posts are eligible for the Board's Superannuation Scheme.

Applications, giving age, qualifications, experience, etc., should be made as soon as possible to THE ESTABLISHMENT OFFICER, National Coal Board, Himley Hall, Dudley, Worcs. 782

BRACKNELL DEVELOPMENT CORPORATION, FARLEY HALL, BINFIELD, BERKSHIRE.

This Authority would be pleased to receive trade literature in duplicate.

E. A. FERRIBY,

Chief Architect. 783

HARLOW DEVELOPMENT CORPORATION. Applications are invited for the following posts in the Department of the Architect/Planner (Frederick Gibberd, F.R.I.B.A., M.T.P.I.):—

(a) ASSISTANT ARCHITECT. Salary £650 × £25—£750 per annum (Grade IV(b)).

(b) JUNIOR ASSISTANT ARCHITECT. Salary £450 × £25—£550 per annum (Grade V(b)).

Candidates for appointment (a) should be Associate Members of the R.I.B.A., and for appointment (b) should have received appropriate training and have experience in the preparation of working drawings and details for large scale building projects.

The appointments will be subject to the Corporation's Staff Rules and Conditions of Service (which are similar to the National Joint Council's Conditions of Service for Local Authorities' Administrative, etc., Staffs), and will in particular involve a contribution to a Superannuation Fund either in accordance with the Local Government Superannuation Act, 1937, or an Assurance Scheme.

The Corporation is prepared to assist the successful candidates in obtaining housing accommodation.

Applications, giving full details and names of two referees, should be addressed to the undersigned, to reach him not later than 14 days after the publication of this advertisement.

W. ERIC ADAMS, General Manager. 792

Terlings, Gilston, Harlow, Essex.

SOUTHERN COLLEGE OF ART, PORTSMOUTH.

Principal: W. J. L. GAYDON, A.R.C.A. Head of School of Architecture: A. C. TOWNSEND, Dipl. Arch. (L'pool), F.R.I.B.A.

Required as soon as possible a full-time ASSISTANT STUDIO MASTER AND LECTURER in Architectural Design.

Applicants should hold the A.R.I.B.A., and preferably a Degree or Diploma of a Recognised School.

Salary in accordance with the Burnham Scale—£300 × £15—£555 per annum—with additional allowances for training qualifications and experience, plus a Special Responsibility allowance of £100 per annum.

Full particulars of the appointment and application form from the Registrar, College of Art, Guildhall Square, Portsmouth.

E. G. BARNARD, M.A., Chief Education Officer. 811

CITY OF PLYMOUTH.

Applications are invited for the appointment of a PLANNING ASSISTANT, Grade A.P.T., Va (£550-£610), in the City Engineer's Department.

Candidates should be suitably qualified, and must have a good knowledge of and extensive practical experience in modern planning technique, including the making and recording of planning surveys and the preparation of development plans. Some Architectural experience and a first-class knowledge of building construction are desirable.

Age limit 40 years, or, if serving with another Local Authority, 45 years. The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Service will be terminated by one month's notice on either side.

The Corporation will make housing accommodation available to the successful candidate if married.

Applications on the form to be obtained from the undersigned, together with copies of not more than three recent testimonials, should be returned by 14th October.

J. PATON WATSON, C.B.E., M.I.C.E., City Engineer and Surveyor.

The Guildhall, Plymouth. 852

GOVERNMENT OF NORTHERN IRELAND. MINISTRY OF FINANCE.

CHIEF ARCHITECT'S BRANCH.

Applications are invited for ASSISTANT ARCHITECT posts in the Ministry of Finance. Subject to a probationary period of two years, the posts are permanent and pensionable.

Remuneration: The scale is £500 × £25—£750. The entry point to this scale depends on age, viz., £520 at age 25, plus £25 for each year above that age. The upper entry point is, however, subject to a limit of £650 per annum.

Qualifications: Candidates must be Registered Architects by examination. In addition, they must have had at least two years' experience in an Architect's office or department in the preparation of working drawings for new buildings.

Preference will be given to candidates who have served in H.M. Forces in wartime, provided that such candidates can, or within a reasonable time will be able to, fill the posts efficiently.

Closing date for receipt of applications: Application forms may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, to whom they must be returned with copies of two recent testimonials, so as to reach him not later than the 2nd October, 1950. 787

CITY OF MANCHESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECT. Salary A.P.T., Grade VII, £635 to £710 per annum.

(b) ASSISTANT ARCHITECT. Salary A.P.T., Grade V, £520 to £570 per annum.

Candidates for both posts must be Registered Architects; preference will be given to applicants who are Associates of the Royal Institute of British Architects and/or hold a Degree or Diploma of a recognised School of Architecture.

Additionally, candidates for (a) must have high ability in design, be capable of taking charge of large contracts, and controlling a group of assistant architects, and have had wide experience in the design of school buildings.

Persons who have the qualifications named above, but are not yet registered architects, are eligible to apply for (b), the salary in such case would be A.P.T., Grade IV, commencing at £480 per annum, until registered.

Forms of application may be obtained from Leonard C. Howitt, B.Arch., F.R.I.B.A., City Architect, Town Hall, Manchester, 2, and should be returned to the same address by 29th September, 1950. Canvassing is prohibited.

PHILIP B. DINGLE, Town Clerk. 807

Town Hall, Manchester, 2, September, 1950.

BRITISH ELECTRICITY AUTHORITY.

SOUTH WALES DIVISION.

Applications are invited for the following appointments at the Uskmouth Generating Station Site, near Newport:—

(a) ASSISTANT QUANTITY SURVEYOR, at a salary within the range £500 to £600 per annum.

(b) SITE MEASURING CLERK, at a salary within the range £390 to £450 per annum.

Both appointments will be temporary for a period of approximately two years, and the salaries, which are provisional and subject to negotiation through the appropriate national machinery, will be in accordance with the candidate's age and experience.

Applicants for (a) should be capable of checking interim and final measurements in accordance with the priced Bill of Quantities for inclusion in the Contractor's statement, and preference will be given to those who have passed the Intermediate Examination of an appropriate Professional Institute.

Applicants for (b) should be capable of dealing with measurements of large contracts by standard methods.

Forms of application may be obtained from the Divisional Secretary at the address below, to whom completed applications should be returned not later than 25th September, 1950, in sealed envelope endorsed with the appointment sought.

H. V. PUGH,

Divisional Controller.

Cardiff (Pangam Moors) Airport, Cardiff. 815

29th August, 1950.

SOUTH-EAST METROPOLITAN REGIONAL HOSPITAL BOARD. REGIONAL ARCHITECT.

In the vacancy caused by the resignation of the present incumbent (taking effect on 30th September, 1950) applications are invited for the post of Regional Architect to the South-East Metropolitan Regional Hospital Board at an annual salary of £1,350 × £50—£1,550, plus £50 London weighting allowance. The post is superannuable under the National Health Service (Superannuation) Regulations, 1947-9, and is terminable by three months' notice on either side.

Preference will be given to candidates of proved administrative ability; and the officer will be responsible for the organisation and administration of the Board's architectural department, and for the Board's dealings with consultants. Hospital experience is desirable.

Applications, which should include a brief statement of qualifications and experience, together with the names of three referees, should reach the Secretary to the Board at 11, Portland Place, London, W.1, not later than 3rd October, 1950. 814

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments:—
(a) SENIOR ASSISTANT ARCHITECT. Salary £635 per annum, rising to £710 per annum (A.P.T., Grade VII).

(b) SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).

(c) ASSISTANT ARCHITECTS. Salary £480 per annum, rising to £525 per annum (A.P.T., Grade IV).

Applicants for appointments (a) and (b) should be Associates of the Royal Institute of British Architects, and must have had experience in General Architectural work and/or Educational buildings.

Applicants for appointment (c) should have passed the Intermediate Examination of the Royal Institute of British Architects.

The appointments will be subject to the National Conditions of Service as adopted by the City Council; to the provisions of the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, particulars of training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials and the names and addresses of two persons to whom reference may be made, should be addressed to the City Architect, 18, Cloth Market, Newcastle-upon-Tyne, 1.

JOHN ATKINSON,

Town Clerk.

Town Hall, Newcastle-upon-Tyne, 1.
23rd August, 1950. 788

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.
SENIOR TOWN PLANNING ASSISTANT
(GRADE A.P.T., VII).

Applications are invited for the above position in Grade A.P.T., VII, i.e., £635-£710. Candidates should possess the qualification A.M.I.C.E. or A.R.I.B.A., be Associate Members of the Town Planning Institute, and have had good experience of Development Plan work.

The successful candidate will be required to pass a medical examination and contribute to the Corporation's Superannuation Fund.

Applications to be made on forms to be obtained from R. M. Finch, Esq., O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than Saturday, 7th October, 1950.

J. E. RICHARDS,

Town Clerk.

Guildhall, Nottingham. 828

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, subject to the Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services, the Local Government Superannuation Act, 1937, and one month's notice on either side for termination.

(a) ONE PRINCIPAL ASSISTANT ARCHITECT (Housing). Grade VIII (£685 to £760). Applicants for this appointment must be experienced in the design and construction of Municipal Housing and Flats, administration, and capable of supervising the staff of the Housing Section.

(b) SENIOR ASSISTANT ARCHITECTS. Grade VII (£635 to £710).

(c) SENIOR ASSISTANT ARCHITECTS. Grade VI (£595 to £660).

(d) ASSISTANT ARCHITECT. Grade III (£450 to £495).

(e) ASSISTANT ARCHITECT. Grade I (£390 to £435).

Candidates for appointments in (b), (c) and (d) should be experienced in the design and construction of schools and municipal housing.

(f) SENIOR QUANTITY SURVEYOR. Grade V (£520 to £570).

(g) QUANTITY SURVEYOR. Grade III (£450 to £495).

(h) QUANTITY SURVEYOR. Grade II (£420 to £465).

Candidates for appointments (a), (b) and (c) must be Registered Architects, and preference will be given to Members of the R.I.B.A.

In the case of appointment (d) preference will be given to candidates who have passed the Intermediate Examination of the R.I.B.A.

For the appointment (f) preference will be given to candidates who are Corporate Members of the Royal Institution of Chartered Surveyors (Sub Division III, Quantities), and for appointment (g) preference will be given to candidates who have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors.

Successful candidates will be required to pass a medical examination.

Applications on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials or names of persons to whom reference may be made, should be received at my office not later than 13th October, 1950.

The Corporation may make housing accommodation available to the successful married candidates if required.

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

City Architect.

Seymour Road, Plymouth. 826

BURGH OF PAISLEY.

Applications are invited for appointments as ARCHITECTURAL ASSISTANTS in the Burgh Engineer and Master of Works Department.

Applicants must be Associate Members of the Royal Institute of British Architects, and should have had several years' experience of design and construction of Local Authority housing.

The appointments are on a permanent basis. Successful applicants will be required to pass the prescribed medical examination and contribute to the Council's Superannuation Fund. Appointments may be determined by one month's notice on either side. The salary will be in accordance with A.P.T., V, of the J.I.C. Conditions of Service and Salary Grading.

Applications, accompanied by the names of two referees, should be sent to the undersigned, to reach him on or before Wednesday, 4th October, 1950.

JOHN A. MCGREGOR,

Burgh Engineer.

14, Gilmour Street, Paisley.
13th September, 1950. 841

NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for:—
(a) ASSISTANT ARCHITECT. A.P.T., Grade VII (£635-£710).

(b) ASSISTANT ARCHITECT. A.P.T., Grade IV (£480-£525).

(c) JUNIOR ARCHITECTURAL DRAUGHTSMAN (General Division). Salary according to age, up to £385 (men), £308 (women).

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a satisfactory medical examination. Appointment (a) and (b) will be terminable by two months' notice in writing on either side, and (c) by one month's notice.

Forms of application are not being issued, but further information may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than Monday, the 2nd October, 1950.

Canvassing will disqualify, and a candidate who is related to a member of, or senior officer under, the Council must disclose the fact when applying.

H. G. THORNLEY,

Clerk of the County Council.

County Hall, Northallerton.
6th September, 1950. 839

URBAN DISTRICT OF FELTHAM.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, on the unestablished staff of the Engineer and Surveyor's Department, at a salary in accordance with Grade V(a) of the Administrative, Professional and Technical Division of the National Scales, commencing at £550 per annum, rising by annual increments of £20 to a maximum of £610 per annum, plus "London weighting," or in Grade VI, commencing at £595 per annum, rising by two annual increments of £20 and one of £25 to a maximum of £660 per annum, plus "London weighting." The Grade will depend upon the qualifications and experience of the successful applicant.

Preference will be given to Registered Architects who have had previous experience in the Department of an Engineer and Surveyor to a local authority. The appointment will be subject to (i) the National Scheme of Conditions of Service, (ii) the successful candidate passing a medical examination, and (iii) 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 6th October, 1950.

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. 840

CAMBRIDGESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.

Applications are invited for the appointment of a CHIEF DRAUGHTSMAN, on Grade A.P.T., V, of the National Joint Council's Scales (salary £520-£570 per annum).

Candidates must be capable surveyors and levellers, and have considerable knowledge and experience of the preparation of Town Planning maps of all kinds, including mapping from air photography, map reproduction by photoprinting methods, and map and plan filing systems, and will be required to supervise staff in these and other duties.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, the Council's Conditions of Service, and to the successful candidate satisfactorily passing a medical examination.

Applications, stating age, past and present appointments (with dates), experience, qualifications, present salary, and the names of two referees, should be received by the undersigned not later than 9th October, 1950.

CHARLES PHYTHIAN,

Clerk to the County Council.

Shire Hall, Castle Hill, Cambridge. 837

EASTERN GAS BOARD.

BUILDING SURVEYOR.

Applications are invited for the appointment of Building Surveyor, to take charge of property maintenance. Applicants should be qualified, capable of drawing up specifications, supervising decorations and repairs to showrooms, offices and dwelling houses. Salary Grade A.P.T., X, £600-£700 per annum. Applications, stating age, qualifications and particulars of training and experience, should be addressed to the Divisional Engineer, Eastern Gas Board, Watford Division, Radiant House, Clarendon Road, Watford, Herts. 843

SUDAN GOVERNMENT.

The Public Works Department requires a SENIOR LECTURER in the Building School (Lecturer in Building Construction, and allied subjects) for service in the Sudan. The duties consist of assisting in the setting up of a School of Building, which may later be incorporated in the Khartoum Technical Institute, and to lecture in Building Construction, Theory of Structures, Technical Drawing, Quantity Surveying and allied subjects. Candidates should hold professional qualifications in Architecture or Civil Engineering, or equivalent qualifications appropriate to the post, and have had adequate teaching experience up to the Higher National Diploma standard at a recognised Technical College.

Appointment will be either on Long Term Contract on a salary scale of £E759 to £E1,316, with special post-service gratuity; or on Provident Fund Contract or Short Term Contract, at slightly higher rates of pay and different post-service benefits.

Cost-of-living allowance, varying between £E142 and £E352 per annum, according to the number of dependents, is at present payable, and, subject to certain limitations, an outfit allowance of £E60 is payable on appointment. There is at present no income tax in the Sudan. Free passage on appointment. Full particulars and application form may be obtained on application to: Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1. Please mark envelopes "Lecturer (Building) P.W.D." 845

BOROUGH OF WORTHING.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, on the permanent establishment of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., III, commencing salary £450, rising by annual increments of £15 to £495 per annum.

Applicants should preferably have passed the Intermediate Examination of the Royal Institute of British Architects, and should have had a sound experience in the preparation of drawings and specifications for general architectural work, including housing.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination.

Applications, endorsed "Architectural Assistant," stating age, qualifications, present and past appointments and experience, with dates, and accompanied by copies of two recent testimonials, should be forwarded to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than 12 noon on Friday, the 6th October, 1950.

ERNEST G. TOWNSEND,

Town Clerk.

Town Hall, Worthing.
12th September, 1950. 850

METROPOLITAN BOROUGH OF HAMPSTEAD.
APPOINTMENT OF TECHNICAL OFFICER
(MAINTENANCE).

Applications are invited for the permanent appointment of a Technical Officer (Maintenance) on the Housing Architect's Staff in the Borough Engineer's Department; Grade V of A.P.T. Division (£520-£570 per annum), plus London area weighting of £30 per annum.

Candidates for the appointment should have a good knowledge of all aspects of building work, be able to prepare specifications, estimates and reports for all maintenance works to requisitioned and Council dwellings, and be able to supervise works in progress and certify final accounts, and should have ability to supervise assistant technical staff. Preference will be given to members of a professional Institution.

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

Applications, giving details as follows:—(a) age, (b) qualifications, (c) present and past appointments, (d) particulars of training and experience, and accompanied by three recent testimonials, must be delivered to me in a sealed envelope endorsed "Technical Officer (Maintenance)," not later than Thursday, 5th October, 1950.

Applicants must disclose in writing whether they are, to their knowledge, related to any member or senior officer of the Council.

The Council are unable to provide housing accommodation.

Canvassing will disqualify.

P. H. HARROLD,

Town Clerk.

Town Hall, Haverstock Hill, N.W.3.
September, 1950. 844

**BOROUGH OF WEMBLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
APPOINTMENT OF SENIOR ASSISTANT
ARCHITECT.**

Applications are invited for the above established appointment.

Applicants must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and have had considerable experience in the design and construction of houses, flats and municipal buildings.

Salary: Grade VI of the National Scales (£596 × £20 (2) × £25 to £660 per annum), plus appropriate London "weighting" allowance.

The appointment is subject to the National Conditions, to the Council's Standing Orders and Staff Regulations, to the Local Government Superannuation Acts, and to the successful applicant passing a medical examination.

Applications in envelopes endorsed "Appointment of Senior Assistant Architect, stating age, qualifications, experience, present and previous appointments, whether related to any member or senior officer of the Council, and giving the names and addresses of three referees, must reach the Borough Engineer and Surveyor by the 30th September, 1950.

Canvassing in any form will disqualify.

The Council will be unable to provide the successful applicant with housing accommodation.

KENNETH TANSLEY,
Town Clerk.

Town Hall, Wembley.
1st September, 1950. 806

**CAMBRIDGESHIRE COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.**

Applications are invited for the appointment of a Planning Assistant, on Grade A.P.T., V, of the National Joint Council's Scales (salary £520-£570 per annum).

The successful candidate will be initially engaged on control of development. Applicants should have previous experience in this work and have passed the Intermediate Examination of the Town Planning Institute or similar qualification.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, the Council's Conditions of Service, and to the successful candidate satisfactorily passing a medical examination.

Applications, stating age, past and present appointments (with dates), experience, qualifications, present salary, and the names of two referees, should be received by the undersigned not later than 9th October, 1950.

CHARLES PRYTHIAN,
Clerk of the County Council.

Shire Hall, Castle Hill, Cambridge. 836

**CROWN AGENTS FOR THE COLONIES.
ARCHITECTURAL DRAUGHTSMAN (male or female)**

required by the Government of Tanganyika for the Public Works Department for one tour of two or three years in the first instance. The appointment will be on probation for permanent and pensionable employment. Commencing salary according to qualifications and experience in scale (male) £670 a year, rising to £840 a year; (female) £536 a year, rising to £672 a year. Outfit allowance up to £45. Free passages. Liberal leave on full salary. Candidates, not over 40, must be expert draughtsmen, with considerable experience in a large drawing office, preferably architectural, and must be able to prepare finished architectural plans, working drawings and tracings from original designs. They should be fully conversant with normal building and architectural details, and have a knowledge of plan registration and print manufacture. Female candidates must be SINGLE.

Apply at once by letter, stating age, full names in block letters, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/25364/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 847

**BOROUGH OF DOUGLAS.
ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Architectural Assistant, in the Borough Engineer and Surveyor's office, at a salary of £475 per annum, plus cost-of-living bonus, at present £50 per annum.

Applicants must be Associates of the R.I.B.A. and experienced in the preparation of working drawings, specifications and quantities for public buildings, housing schemes, and other Municipal buildings.

The appointment will be terminable by one month's notice on either side, and will be subject to the provisions of the Council's Superannuation Scheme. Reciprocal arrangements regarding Superannuation as between Great Britain and the Isle of Man will apply.

The successful candidate will be required to pass a medical examination and to contribute towards the Superannuation Fund.

Applications, endorsed "Architectural Assistant," giving particulars of age, qualifications and experience, together with copies of not more than three recent testimonials, should be addressed to the undersigned not later than 3rd October, 1950.

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

PERCY M. SHIMMIN,
Town Clerk.

Town Hall, Douglas.

13th September, 1950. 842

**CRAWLEY DEVELOPMENT CORPORATION
invites applications for the appointment of
DRAUGHTSMAN, within the salary Grade V,
£400 × £25-£525 p.a. Contributory superannua-
tion.**

Applicants must be capable draughtsmen, with good structural knowledge and experience in presentation technique. They must have had experience in an Architectural office.

Form of application can be obtained from the Chief Architect, Broadfield, Crawley, Sussex, and should be returned to him not later than the 5th October, 1950.

C. A. C. TURNER,
Chief Executive.

**MINISTRY OF WORKS-DIRECTORATE
GENERAL OF WORKS.**

Applications are invited for filling vacancies in the South-Eastern Regional Office at Tunbridge Wells.

ARCHITECTURAL ASSISTANTS, having had a full period of recognised training and experience in the preparation of drawings for good class building work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualifications, and experience within a scale rising to £495 per annum.

Applications, stating age, present and previous appointments, training qualifications, etc., should be sent to the Assistant Regional Director (Administration), Ministry of Works, Government Buildings, Hawkenbury, Tunbridge Wells. 786

BUCKS COUNTY COUNCIL.

The County Architect invites applications from qualified ASSISTANT ARCHITECTS who possess a keen and energetic enthusiasm for their profession.

Candidates should preferably have been trained at a recognised School of Architecture. Salary Grade V, £520-£570 per annum.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom they must be delivered by 9th October, 1950. 827

**BOROUGH OF ACTON.
ARCHITECTURAL ASSISTANT.**

Applications are invited for this permanent appointment, at a salary in accordance with Grade A.P.T., V/Va of the National Scale (£520-£564 p.a.), plus London "weighting."

The commencing salary may be fixed within the Grades according to the qualifications and experience of the person appointed.

Applicants must be registered Architects, experienced in the design, erection and maintenance of houses, flats and public buildings.

If necessary, housing accommodation will be made available to the person appointed.

An application form and a copy of the conditions of appointment may be obtained from the Borough Engineer, Town Hall, Acton, W.3, to whom applications must be delivered by 2nd October, 1950.

Canvassing will disqualify.

H. C. LOCKYER,
Town Clerk.

Town Hall, Acton, W.3. 823

**RHYMNEY URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECT.**

Applications are invited for the permanent appointment of an Architect to the above Council. The salary will be Grade V of the A.P.T. scales, but commencing at £550 per annum.

Applicants will be expected to prepare plans, specifications, bills of quantities, etc., for the Council's Housing Schemes, and supervise the housing contracts.

Applicants should preferably be Members of the Royal Institute of British Architects.

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

Applications, stating age, qualifications, experience, etc., with the names of two persons to whom reference may be made, should reach the undersigned not later than Monday, the 2nd October, 1950.

R. T. LEWIS,
Clerk of the Council.

Council Offices, Rhymney, Mon. 793

**HAMBLEDON RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the above appointment in the Department of the Engineer and Surveyor, at a salary in accordance with Grade V of the National Scales (£550-£610).

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects and should have had experience of local authority housing estates, their design and construction, and should be capable of making surveys, preparing plans, specifications, bills of quantities, etc., in connection with new estate development.

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.

Applications, in candidates' own handwriting, stating age, qualifications, present and past appointments, with full details of experience, and accompanied by copies of not more than three recent testimonials, must be delivered to me not later than the first post on Friday, the 6th day of October, 1950.

Dated this 14th day of September, 1950.

ROBIN J. GARLAND,
Clerk of the Council.

Council Offices, Bury Fields, Guildford. 838

WAR DEPARTMENT.

Applications are invited from suitably qualified persons for civilian posts of Clerks of Works (E. or M.), Clerks of Works (Con.) and Quantity Surveying Assistants, in Royal Engineer Works Services in the Far East (Malaya, Singapore and Hong Kong). Appointments are temporary and for period of two years, with possibility of extension. Minimum qualifications required:—

CLERKS OF WORKS (ELECTRICAL) OR MECHANICAL: Reference No. F.A.323. Ordinary National Certificate in Electrical and/or Mechanical Engineering of equivalent qualifications. After apprenticeship, at least three years with an Engineering firm giving good comprehensive experience, or not less than three years as a supervisor of labour chargehand or technical officer in the industry.

CLERKS OF WORKS (CONSTRUCTION): Reference No. F.A.324. Ordinary National Certificate or equivalent qualifications. Apprenticeship as craftsman with three years' experience as Foreman of Trade, General Foreman or Clerk of Works. General office experience in estimating, costing and management.

QUANTITY SURVEYING ASSISTANTS: Reference No. F.A.325. City and Guilds 3rd Year Certificate in quantities and building construction, or equivalent qualifications. Five years' training and experience with a Quantity Surveyor, or Building Contractor (or Government Department, or Local Authority).

Salary range: £400 to £525 (free of United Kingdom income tax). Commencing salary according to age, qualifications and experience. Yearly increments. In addition foreign service allowance is payable, which is not liable to United Kingdom income tax, present rates:—

Single (with free food and accommodation), Malaya and Singapore, £75; Hong Kong, £55.

Married (unaccompanied (with free food and accommodation), Malaya and Singapore, £240; Hong Kong, £220.

Married, accompanied (accommodated), Malaya and Singapore, £775; Hong Kong, £525.

Married, accompanied (unaccommodated), Malaya and Singapore, £1,000; Hong Kong, £825.

An initial outfit grant of £30 is also payable.

Successful married applicants will be expected to proceed unaccompanied, but may apply or arrival for passage for family at public expense if accommodation is found.

Candidates for all posts should be under 35 years of age.

Applications, stating age, qualifications and experience, and quoting reference numbers as shown above, should be forwarded to London Appointments Office, Ministry of Labour and National Service, 1-6, Tavistock Square, London, W.C.1, within 14 days of the appearance of this advertisement. In no circumstances should originating testimonials be forwarded. Only candidates selected for interview will be advised. 961

**BOROUGH OF WEDNESBURY.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the appointment of an Architectural Assistant in the Borough Engineer and Surveyor's Department, at a salary in accordance with A.P.T. Grade VII (£635 to £710 per annum).

Applicants must be Associate Members of the Royal Institute of British Architects and have experience in the design, erection and maintenance of houses, flats, and public buildings.

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

Applications, stating age, qualifications and experience, and enclosing copies of two recent testimonials, are to be received by the Borough Engineer and Surveyor, Mr. C. G. Morrish, not later than 11th October, 1950.

G. F. THOMPSON,
Town Clerk.

Town Hall, Wednesbury, Staffs. 856

WAR DEPARTMENT.

There are vacancies on Works Services for **ARCHITECTURAL ASSISTANTS**, with recognised training and fair experience. Successful candidates will be employed on a wide variety of work, including Camp Structures, Barrack Accommodation, Housing, Surveys, and must be able to use level.

Salary: Architectural Assistants £270 × £20 to £495 per annum, plus overtime, if any. Starting pay will be assessed according to age, qualifications and experience, at a maximum of £440.

Although these are not established posts, some of them have long-term possibilities.

Apply in writing, stating age, nationality, full details of experience, to C. R. E. Catterick, Catterick Camp, Yorkshire. 835

**NORTHERN IRELAND HOUSING TRUST.
APPOINTMENT OF ASSISTANT
ARCHITECTS.**

Applications are invited for Assistant Architect Grade III, salary scale £400 × £20-£600 per annum, from Fellows or Associates of the R.I.B.A. The point of entry on the scale will be in accordance with ability and experience.

The Northern Ireland Housing Trust was established by the Housing Act (Northern Ireland), 1945, to build and manage houses for workers, and the Trust is developing housing estates throughout Northern Ireland.

Preference will be given to ex-service applicants.

Applications should be lodged not later than 12th October on forms which may be obtained from the General Manager, Northern Ireland Housing Trust, 12, Hope Street, Belfast. 833

WAR DEPARTMENT.

Applications are invited from suitably qualified persons for the following civilian posts in Royal Engineer Works Services in the Far East (Malaya, Singapore and Hong Kong). Appointments are temporary and for a period of two years, with possibility of extension. Minimum qualifications required:—

(1) ARCHITECTS (Reference J.235/50): Must be A.R.I.B.A. or Registered Architect by examination, and should in addition have considerable experience.

(2) ASSISTANT ARCHITECTS (Reference J.236/50): As for post 1, but with less experience.

(3) ASSISTANT SUPERINTENDENT OF WORKS (Reference J.237/50). Must have obtained Corporate Membership of the Institution of either Civil, Structural or Municipal Engineers or of Royal Institution of Chartered Surveyors (Building Section) or of Royal Institution of British Architects or hold equivalent qualifications.

(4) CIVILIAN GARRISON ENGINEERS (MAINTENANCE SURVEYORS) (Reference J.238/50): Preference will be given to Registered Architects by examination or Corporate Members of Royal Institution of Chartered Surveyors (Building Section), or equivalent qualifications, but consideration will be given to applicants possessing Ordinary National or Higher National Certificate and good experience in comparable posts.

(5) CIVILIAN QUANTITY SURVEYORS (Reference J.62/50). Must be Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Section) or have passed a degree or other examination necessary for obtaining Corporate Membership, and should in addition have considerable experience.

(6) ASSISTANT QUANTITY SURVEYORS (Reference J.239/50): Must have obtained Corporate Membership of Royal Institution of Chartered Surveyors (Quantities Section) or in the case of those whose experience has been with a builder or contractor (in addition to any whole time study in a recognised school) have passed a written examination in Quantity Surveying. Applicants with comparable military experience will be considered. Salary ranges for the posts are:—

Post 1, 3, 4, 5—£750 to £1,000 p.a.
Posts 2, 4, 6—£500 to £750 p.a.
(Salaries are subject to U.K. income tax.)
Commencing salary according to age, qualifications and experience. Yearly increments. In addition foreign service allowance is payable which is not liable to U.K. income tax. Present rates:—

Single (with free food and accommodation), Malaya and Singapore, £75; Hong Kong, £55.

Married, unaccompanied (with free food and accommodation), Malaya and Singapore, £240; Hong Kong, £220.

Married, accompanied (accommodated), Malaya and Singapore, £275; Hong Kong, £255.

Married, accompanied (unaccommodated), Malaya and Singapore, £1,000; Hong Kong, £825.

An initial outfit grant of £30 is also payable. Successful married applicants will be expected to proceed unaccompanied, but arrangements would be made for families to join them at public expense when they have found suitable accommodation.

Forms of application obtainable from "K" Section, Technical and Scientific Register, York House, Kingsway, London, W.C.2. The appropriate reference number should be quoted. 859

QUANTITY SURVEYORS AND ASSISTANT QUANTITY SURVEYORS

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

Salaries for these professional posts in London for officers over 25 years of age range up to £750 per annum, they are slightly lower in the provinces. Salary on entry will be in accordance with age, qualifications and experience.

Vacancies also exist for QUANTITY SURVEYING ASSISTANTS and others having some experience in a quantity surveyor's office, at salaries ranging from £300 p.a. upwards.

Applicants should write, quoting Ref. J.Q.S. to Room 368, Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, London, W.C.2. 860

WEST SUFFOLK COUNTY COUNCIL. PLANNING ASSISTANT.

Applications are invited for the appointment of Planning Assistant in the above Department at Bury St. Edmunds, at a salary in accordance with A.P.T., Grade II, of the National Scale of Salaries (£420-£465 per annum).

Candidates should have had experience of all aspects of Town and Country Planning, Development Control, and the preparation of factual surveys.

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

Applications in own handwriting, stating age, education, experience, present position and salary, together with the names of two referees, should reach the undersigned within 14 days from the appearance of this advertisement.

L. G. H. MUNSEY,
Clerk of the County Council.
Shire Hall, Bury St. Edmunds. 857

CUMBERLAND COUNTY COUNCIL.

Applications are invited for the appointment of TWO BUILDING INSPECTORS, on the permanent establishment of the County Architect's Department, at a salary in accordance with A.P.T., Grade IV (£480 to £525 per annum). One appointment is for the Whitehaven district, and the other for the Workington district, and the successful candidates will be required to live in or near these towns.

Applicants must have had practical experience of buildings, supervision of building work, and maintenance of property, and should be able to prepare reports. Previous experience with a Local Authority is desirable. The persons appointed will be required to provide motor cars, and a car allowance will be payable for County Council duties, in accordance with the Council's scale.

Forms of applications, together with further particulars and conditions of appointment, may be obtained from John H. Haughan, F.R.I.B.A., County Architect, 15, Portland Square, Carlisle, not later than Wednesday, 4th October, 1950.

G. N. C. SWIFT,
Clerk of the County Council. 853

September, 1950.

WAR DEPARTMENT.

Applications are invited for the following vacancies in the Fortification and Works Directorate at Chessington, Surrey:—

ASSISTANT CIVIL ENGINEER: Must be Corporate Member of Institution of Civil or Structural Engineers, have specialised experience in design and construction of Steel Framed Buildings, and must be fully conversant with B.S.449 (1948) and British Standard Codes of Practice for steelwork design. A knowledge of reinforced concrete construction would be an advantage.

LEADING DRAUGHTSMAN (CIVIL ENGINEERING): Applicants should have reached a technical standard of not less than Ordinary National Certificate and have practical experience in design and detailing of reinforced concrete structures, and be capable of preparing calculations, bending schedules, etc.

DRAUGHTSMAN (MECHANICAL). Must have reached a technical standard of not less than Ordinary National Certificate in Mechanical Engineering and have practical experience in this field.

Candidates for all posts should be under 50 years of age.

Salaries for the posts are:—
Assistant Civil Engineer, £448-£720 per annum.
Leading Draughtsman, £240-£595 per annum.
Draughtsman, £283-£495 per annum.

Starting salary will be fixed according to age, qualifications and experience. Annual increases are payable, subject to satisfactory service.

The posts are temporary, but most of them have long-term possibilities, and open competitions are held periodically to fill established posts.

The work is varied and interesting, and good canteen facilities exist.

Apply in writing, stating age, nationality and full details of qualifications and experience, to the War Office (C.5(A)), Room 504, Hotel Victoria, Northumberland Avenue, London, W.C.2. 858

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

Applications are invited for the following appointments:—

(a) SENIOR PLANNING ASSISTANT, Grade VI (£595-£660 per annum).

(b) SENIOR ARCHITECTURAL ASSISTANT, Grade VI (£595-£660 per annum).

(c) ARCHITECTURAL ASSISTANT, Grade IV (£490-£525 per annum).

(d) ARCHITECTURAL ASSISTANT, Grade II (£420-£465 per annum).

Applicants for appointment (a) should be Associate Members of the Town Planning Institute and the holding of other qualifications will be an advantage. Experience in a similar capacity in a planning office is essential.

Applicants for appointment (b) must be Associates of the Royal Institute of British Architects and the holding of additional qualifications will be an advantage. Considerable experience in architectural design and construction of general Municipal work is essential.

Applicants for appointment (c) should have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent, and have had good general experience in an architectural office.

Applicants for appointment (d) should preferably have had appropriate training at a recognised school of architecture and have had some experience in an architectural office.

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.

Forms of application may be obtained from the Borough Engineer and Surveyor, 22-24, Nicholas Street, Burnley, to whom applications should be returned in the envelope provided not later than 9 a.m. on Saturday, the 7th October, 1950.

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 applications.

C. V. THORNLEY,
Town Clerk. 855

Town Hall, Burnley.
September, 1950.

CITY AND ROYAL BURGH OF EDINBURGH. TOWN PLANNING DEPARTMENT ESTABLISHMENT.

Applications are invited for the following permanent appointments:—

(a) ONE AREA PLANNING OFFICER (salary scale £750-£850).

(b) ONE PLANNING ASSISTANT, A.P.T., Grade V (salary scale £520-£570).

(c) ONE MODEL DESIGNER (salary scale £520-£610).

Qualifications and experience of candidates should be as below:—

Appointment (a): Corporate Membership of the Town Planning Institute is essential, together with an additional qualification in Architecture. Duties include examination of planning applications under the Act, preparation of detailed layout plans, street elevations, and contributing advice upon architectural developments.

Appointment (b): Corporate Membership of the Town Planning Institute desirable, together with an additional qualification in Architecture, Engineering or Surveying. Intermediate Examination certificate of a recognised school essential, and Final Examination standard desirable. Experience in a town planning office desirable, but not essential. Duties include preparation of detailed layout plans, site inspection, etc.

Appointment (c): The successful applicant will be responsible for the construction of Architectural and Town Planning Models for general and detailed development schemes. Successful applicants will be required to pass a medical examination, and will be subject to the Corporation's Superannuation Scheme.

Applications, stating age, present and previous appointments and present salary, qualifications and experience, should be forwarded to the Town Planning Officer, City Chambers, Edinburgh, 1, not later than Monday, 9th October, 1950.

J. STORRAR,
Town Clerk. 854

City Chambers, Edinburgh.
16th September, 1950.

ARMAGH COUNTY COUNCIL.

ARCHITECT-PLANNER required temporarily for a period of at least three months from 1st November, 1950. Candidate should hold Associate-ship R.I.B.A. and, preferably, A.M.T.P.I. Salary to be in general accordance with National Salary Scale, and commensurate with qualifications and experience. Full particulars, with photograph, drawings, and three testimonials, to:—

J. D. GORDON, B.Sc., A.R.I.B.A.,
M.T.P.I., M.I.Mun.E.,
County Planning Officer.

10, Abbey Street, Armagh, Northern Ireland. 854

CROWN AGENTS FOR THE COLONIES.

BUILDING SURVEYOR required by Hong Kong Government Public Works Department for three years, with prospect of permanency. Salary, including expatriation pay, payable in local currency, equivalent at the present Government rate of exchange to £784 a year, rising to £1,365 a year, plus cost-of-living allowance, at present equivalent to between £274 and £637 a year, according to salary and dependants. Commencing salary according to qualifications and experience. Free passages. Liberal leave on full salary. Candidates not over 45 years of age, must be Chartered Surveyors, and have had at least five years' experience in a City Engineer's or similar office dealing with the approval of plans for the construction of buildings, including reinforced concrete framed structures. Apply at once by letter, stating age, full names in block letters and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/23704/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 846

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

BOROUGH OF BEXLEY.

ERECTION OF PERMANENT HOUSES AND FLATS.

Tenders are invited for the erection of 62 Traditional Houses and 12 Flats on the Royal Park Estate, Bexley.

Bills of Quantities, Specification, and Form of Tender may be obtained from Messrs. Ley, Colbeck & Partners, F.R.I.B.A., Palmerston House, Bishopsgate, E.C.2.

Contractors wishing to tender for this scheme should submit their names and addresses not later than 25th September, 1950, together with a deposit of £5 ss. (by crossed cheque made payable to Messrs. Ley, Colbeck and Partners), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Drawings and General Conditions of Contract (R.I.B.A. form) may be inspected at the above-mentioned architects' office.

Tenders on the prescribed form must be delivered to the Town Clerk, Council Offices, Broadway, Bexleyheath, in the special envelope provided, and without any name or other distinguishing mark, not later than the 20th October, 1950.

The Council do not bind themselves to accept the lowest or any Tender.

W. WOODWARD,
Town Clerk. 784

Architectural Appointments Vacant

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

YOUNG ASSISTANT, interested in Ecclesiastical work required in private East Midlands office; student considered. Full particulars to Box 4167.

SENIOR ARCHITECTURAL ASSISTANT required by United Dairies, Ltd. Applicants to state age and experience in the preparation of surveys, sketch plans and working drawings, and be able to supervise work in progress. Apply in writing, stating qualifications and salary required, to Chief Architect, 31, St. Petersburg Place, London, W.2. 674

APPLICATIONS are invited for following appointments in office of Architect, Eastern Region, British Railways, at King's Cross, London, N.1.—

(a) **SENIOR ARCHITECTURAL ASSISTANT**. Applicants should be Registered Architects and Associates of R.I.B.A. They should be good contemporary designers and able to take responsibility for day-to-day conduct of major contracts. Salary range £600 to £630, according to qualifications and experience.

(b) **ARCHITECTURAL ASSISTANT**. Applicants should be qualified Architects or, if not qualified, should be of Intermediate R.I.B.A. standard, with some years' experience. Good contemporary design ability is required and an up-to-date knowledge of building technique. Salary range £510 to £575, according to qualifications and experience.

The Department is engaged on design and construction of industrial, commercial and domestic buildings, and offers varied and interesting work.

Apply to: Civil Engineer, Staff Section, Eastern Region, British Railways, King's Cross Station, N.1. 830

CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECT'S DEPARTMENT, LONDON.

APPLICATIONS are invited for the following:—

ASSISTANT ARCHITECTS. Salary £490-£555 per annum. Applicants should have a sound knowledge of building construction and Architectural design, capable of preparing working drawings and details under supervision. Experience in shopping premises and light industrial work would be an advantage.

The appointments are permanent and offer prospects of up-grading.

Successful candidates will be required to undergo medical examination for a compulsory Superannuation Scheme.

Applications, stating age, experience and qualifications, to the Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 831

TWO ARCHITECTURAL ASSISTANTS of Intermediate R.I.B.A. standard required immediately for Architects' Office of a large Industrial Concern in the Bristol area. The salary offered is £350-£400 p.a., according to qualifications and experience. Please reply, stating age, experience, etc., to Box 801.

ARCHITECTURAL ASSISTANT required in busy and varied practice in Chancery Lane. Must be good draughtsman and experienced in surveying existing buildings prior to alteration, and able to take complete charge of small jobs. Please send details of age, experience, and salary required to Box 800.

ARCHITECTURAL ASSISTANTS, with experience in steel framed buildings, required to work on large Government office building. Senior and lower graded assistants will be selected on ability and experience rather than salary required. Write, stating age, experience, and salary, to Louis de Soissons, A.R.A., & Partners, 3, Park Square Mews, London, N.W.1. 797

EXPERIENCED SENIOR ASSISTANTS required by Architect to London Brewery; must be practical draughtsmen, with good knowledge of construction; commencing salary £550-£600. Apply in writing, stating age, training and experience, to Box 822.

ARCHITECTURAL ASSISTANT required; Inter. standard or above; E. London office engaged in a variety of Industrial Commercial Projects in and around London. Also **QUANTITY SURVEYOR**, to work with Architect's Department on the above projects; experienced in the preparation of specifications and builders' quantities. Box 863.

SENIOR ARCHITECT and ASSISTANT ARCHITECTS required for Prefabricated Housing Division of Firm of Consulting Engineers in London. Senior experience must include sound practical knowledge of timber structures, procurement of materials and fittings, administrative ability to take charge of London office staff and factory staffs, Britain and the Continent, in the capacity of Manager. Assistant Architects must possess sound knowledge of prefabricated construction, and to work on new designs, prototypes, and some administrative work. Qualified men preferred. Write, stating experience, age, and salary required, Box No. 87, c/o Dawsons, 129, Cannon Street, E.C.4. 817

JUNIOR ARCHITECTURAL ASSISTANT required, up to R.I.B.A. Intermediate standard, for London office, capable of executing working drawings, etc., to start immediately. Interesting work and scope for applicant showing initiative. Apply in writing, stating age, training, experience, and salary required, to Elie Mayorcas, F.R.I.B.A., 13, David Mews, Baker Street, W.1. 818

RONALD WARD & PARTNERS require **TWO ARCHITECTURAL ASSISTANTS** (Intermediate standard). Apply 17, Lowndes Street, S.W.1. Telephone Sloane 8291. 821

ASSISTANTS required in Architect's Department in London. Permanency offered to men from 25/35 years of age. Preference given to Associates R.I.B.A. for the senior posts. Previous experience in design, supervision, specifications and maintenance of good class buildings essential. Suitable applicants will be eligible for allowance following retirement. Write, giving age and details of past work, Box 851.

Architectural Appointments Wanted

ASSISTANT (27), married, 6-7 years' good general office experience, over year as Sen. or (London), preparing Final this year, seeks post in Devon or Cornwall office-country practice. Box 885.

JUNIOR ARCHITECTURAL ASSISTANT requires position, Birmingham office; experienced industrial and small amount domestic work, surveying and setting out; good draughtsman on all working drawings. Box 589.

ARCHITECTURAL ASSISTANT (29) seeks appointment in progressive Provincial office; 9 years' office experience; capable of preparing working drawings, surveys, detailing, site supervision, etc.; experience includes factories, schools, agricultural buildings, hotels, etc., and housing; studying for Special Final Exam. R.I.B.A. Box 586.

ARCHITECTURAL DRAUGHTSMAN (age 22), probationer R.I.B.A., with over 4 years' office experience, wishes to obtain a progressive position in London Architect's office. Box 587.

OFFICE-TRAINED ASSISTANT, passed Finals, 8 years' varied experience, wants position with responsibility in office in South. Box 588.

ARCHITECTURAL ASSISTANT, Inter. standard, requires position in a progressive private office in London. Box 581.

DIPLOMA ARCHITECT, qualified 1949, requires responsible position with progressive Architect, in London or Surrey. Box 591.

JUNIOR ASSISTANT (24), Inter. next May, requires post in Architect's office; City or West End. Box 590.

Other Appointments Vacant

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

ARCHITECTURAL Metalworkers require a **DESIGNER-DRAUGHTSMAN** of considerable merit; top salary position for skilled man. Apply to the Morris Singer Company, Hope House, 61, Peter Street, Westminster, S.W.1. 3584

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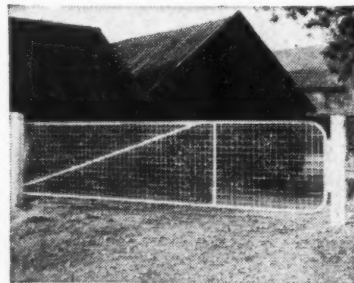
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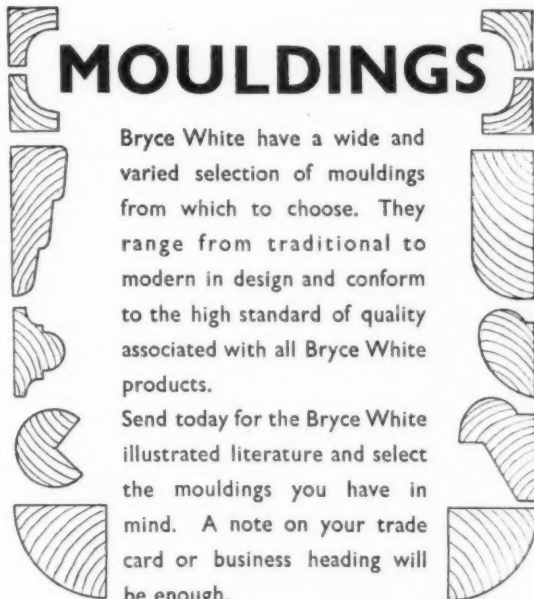
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