

THE ARCHITECTS' JOURNAL



standard contents

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

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Wanted and Vacant

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

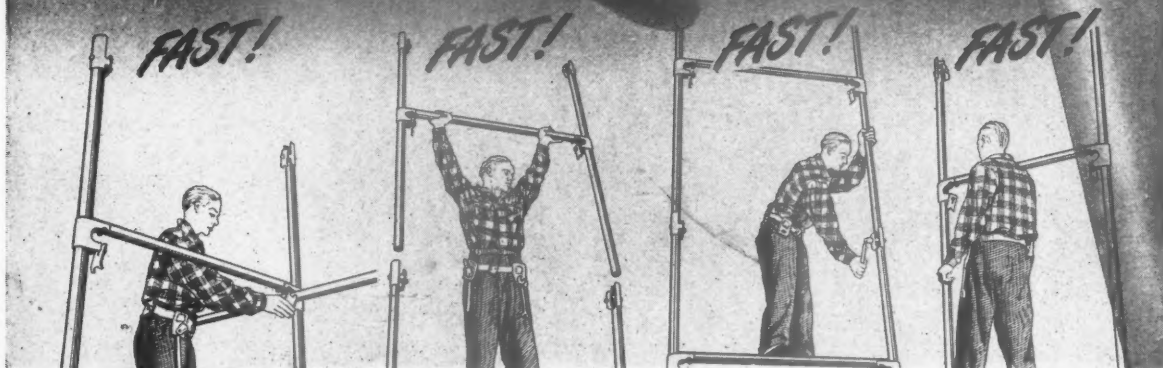
AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5721
ABT	Association of Building Technicians. 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
ArchSA	Architectural Students' Association. 34/36, Bedford Square, W.C.1.	
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 8738
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	
BC	Building Centre. 26, Store Street, Tottenham Court Road, W.C.1.	Reliance 7611, Ext. 1706
BCC	British Colour Council. 13, Portman Square, W.1.	Museum 5400
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Welbeck 4185
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Ealing 9621
BDA	British Door Association. 10, The Boltons, S.W.10.	Redditch 716
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Fremantle 8494
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Temple Bar 9434
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Glasgow Central 2891
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Chancery 7772
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Langham 2785
BRDB	British Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford	Mansion House 9383
BSA	Building Societies Association. 14, Park Street, W.1.	Garston 2246
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 0515
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Mayfair 9000
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon.	Holborn 8146/7
CAS	County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester.	Newport 65491
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Chichester 3001
CCP	Council for Codes of Practice. Lambeth Bridge House, S.E.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Reliance 7611
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderhof, 7, Zurich, Switzerland.	Radlett 5616
COID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Dolderhof, 7, Zurich, Switzerland.
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Abbey 7080
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 4280
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Sloane 9116
DGW	Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1.	Reading 72255
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Reliance 7611
DPT	Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Trafalgar 8855
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	Regent 4448
FAS	Faculty of Architects and Surveyors. (Temporary address) 96, Madrid Road, S.W.13.	Riverside 6437
FASS	Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1.	Abbey 7232
FBBDO	Fibre Building Board Development Organisation, Ltd. 47, Princes Gate, Kensington, S.W.7.	Kensington 4577
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.	Chancery 7583
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
GBPA	Gypsum Building Products Association, 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
GG	Georgian Group. C/o R. H. Davies, Esq., 44, Lowndes Street, S.W.1.	Belgravia 3081
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
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
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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John Borthwick won't keep in character

Architects who have never met John Borthwick, our North West Divisional Manager, are due for a surprise. Quite naturally this broad, chunky man was a second row forward. Equally in character is his passion for vintage cars. And then you get to know him and discover he was once an art student, and holds an industrial design diploma, and can discuss the work of Modigliani or Corbusier and cultivates chrysanthemums in his garden. Strange mixture. You grumble that Mr. Borthwick is one of those people who just won't keep in character. But then, after all, he is a Williams & Williams Divisional Manager!

* Mr. J. Borthwick supervises offices in Belfast (23762). Birmingham (Shirley 3064). Glasgow (Douglas 0003). Liverpool (Central 0325). Manchester (Blackfriars 9591).

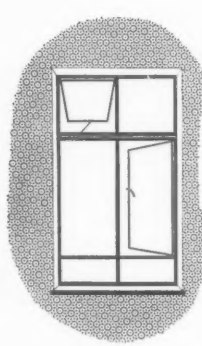
Other offices at: Bristol (38907). Bromley (Ravensbourne 6274). Cardiff (27092). Crawley (2200). Hertford (3969). Leeds (21208). London (Sloane 0323). Maidstone (51750). Newcastle-upon-Tyne (21353). Norwich (24393). Nottingham (52131). Reading (50291). Sheffield (51594). Southampton (26252).

METAL WINDOWS

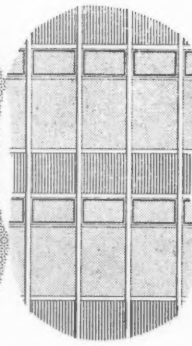
WILLIAMS & WILLIAMS



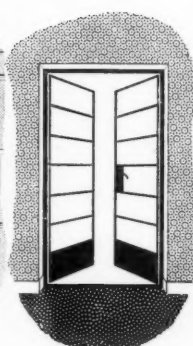
Member of the Metal Window Association



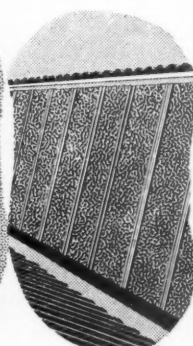
Metal Windows



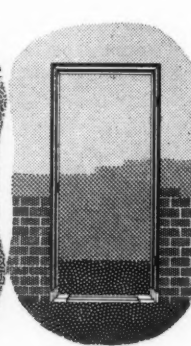
Wallspan Curtain Walling



Metal Doors



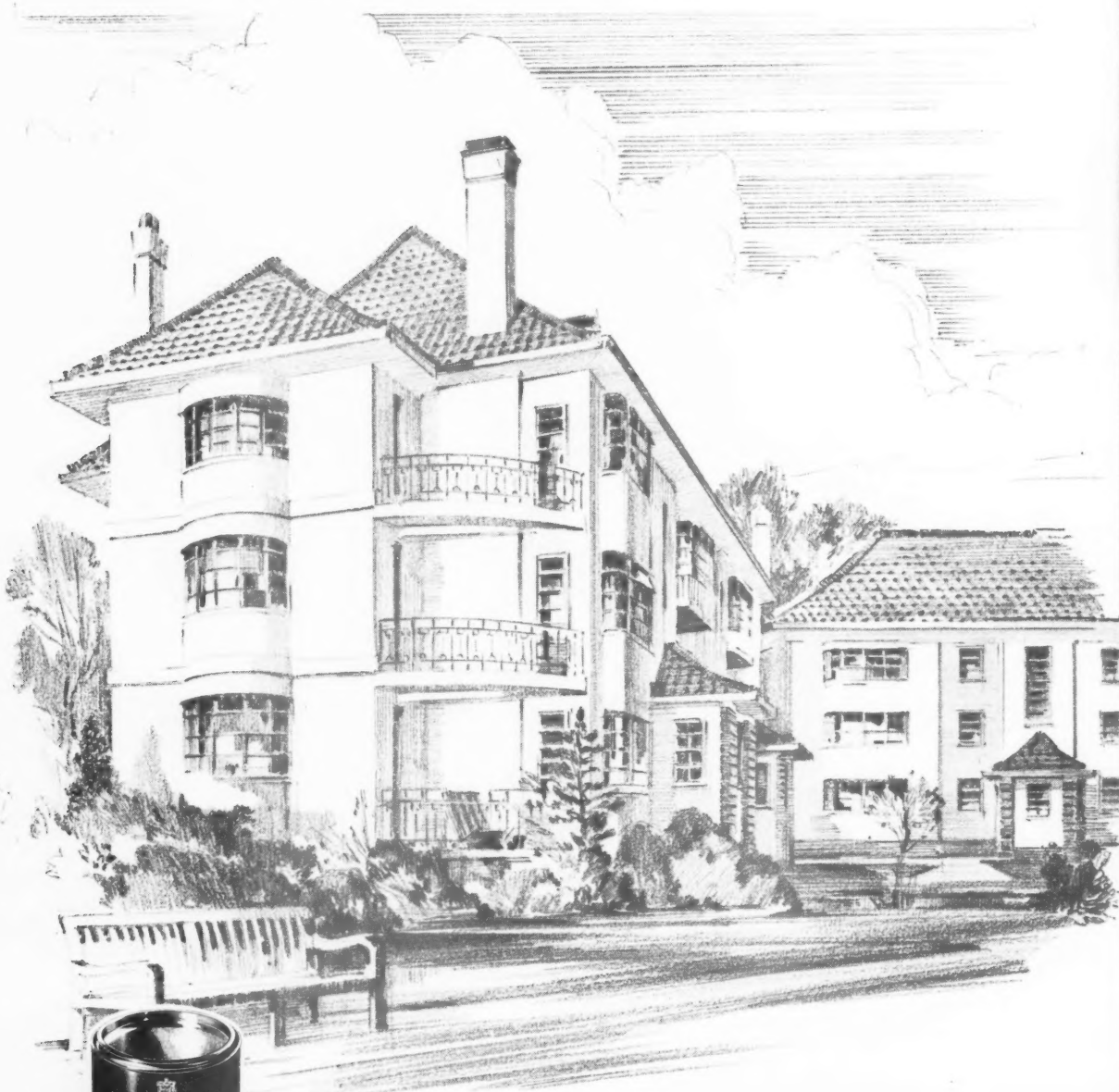
Aluminex



Metal Door Frames



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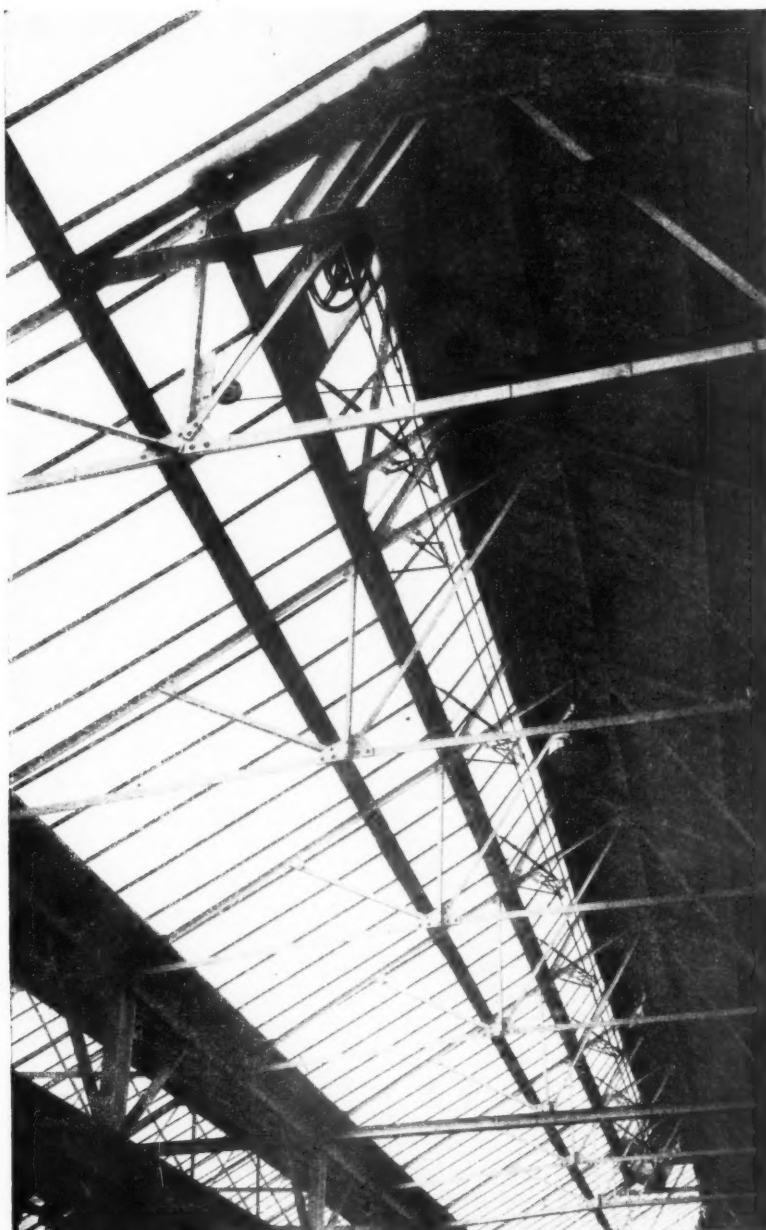
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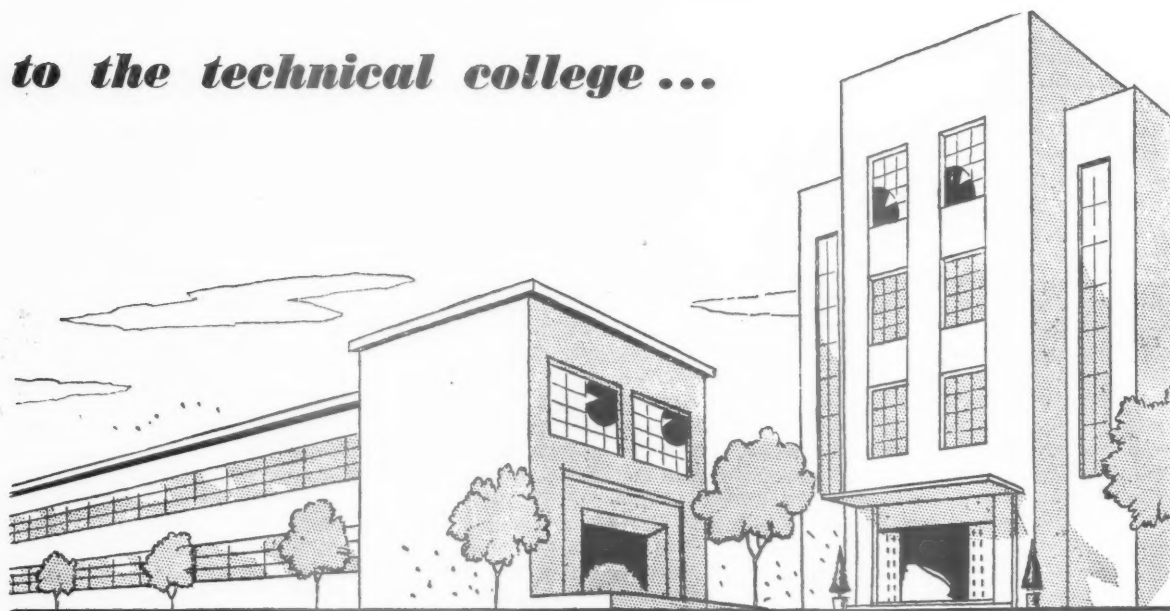
- OPENING OUTWARDS
- OPENING INWARDS
- TOP HUNG
- HORIZONTAL CENTRE HUNG
- BOTTOM HUNG
- VERTICAL PIVOT HUNG
- SIDE HUNG
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as the block of flats said to the technical college ...



FLATS Don't look now, but do you know that the hospital up the road has leaky windows — and it hasn't been up three years!

TECH Is that a fact?

FLATS One of my tenants went to see a patient there, and she says there are stains and rust marks dribbling down the walls.

TECH My dear, how disgusting. And in a hospital, too! Didn't the builders know about Arbomast B.1? All my four hundred windows are bedded in Arbomast B.1 and glazed with Arbolite Metal Casement Putty, and I've never had a leak anywhere.

FLATS You talk as though glass and metal were the only glazing problem. What about buildings like me, where metal windows are set in beautiful wood frames? I tell you, I'd have had a packet of trouble if my windows were not bedded and caulked with Arbomast B.1.

TECH Oh, I grant you both are excellent. But surely every builder in the land uses one or the other, these days.

FLATS You'd be suprised how many still try and get by with ordinary putty. Well, look at the hospital.

TECH My architect would never have allowed that!

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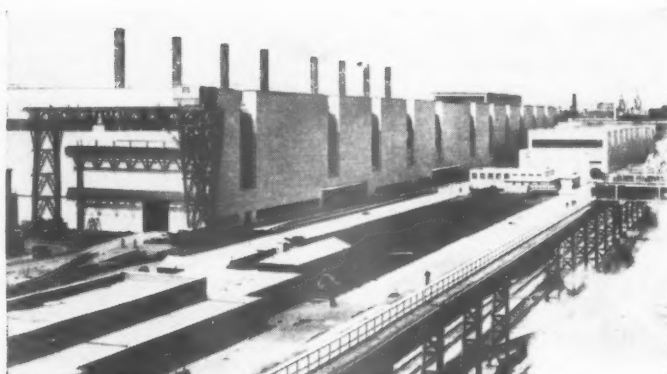
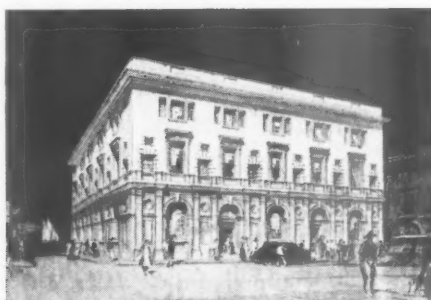
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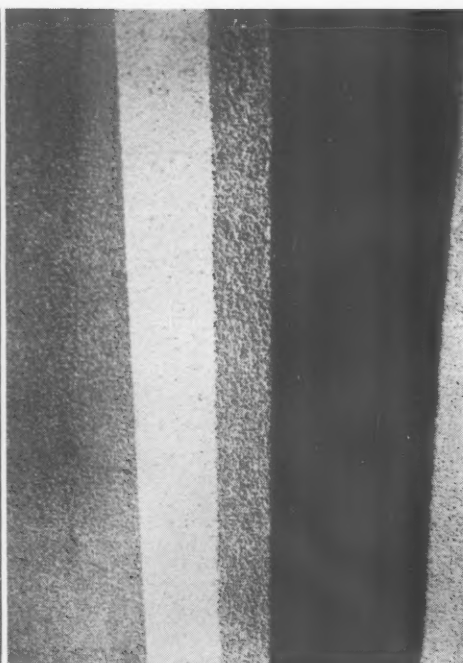
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On the Silcock Silo, steel reinforcement had corroded and disintegration of the concrete was taking place, as shown in the first illustration on the right. At the extreme right the same detail appears after Pyrok was used for protective and decorative treatment. Work was executed by C. & T. (Pyrok Contracts) Ltd. London

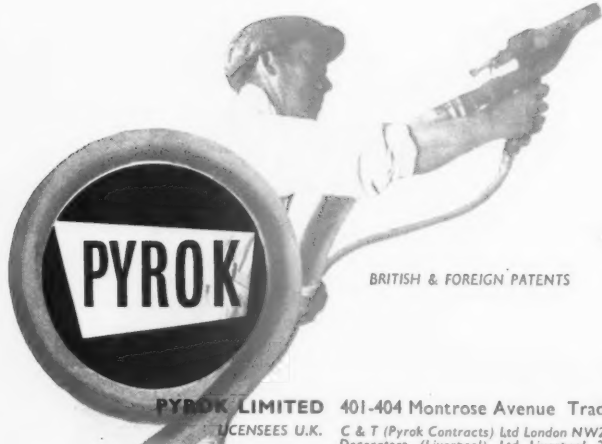


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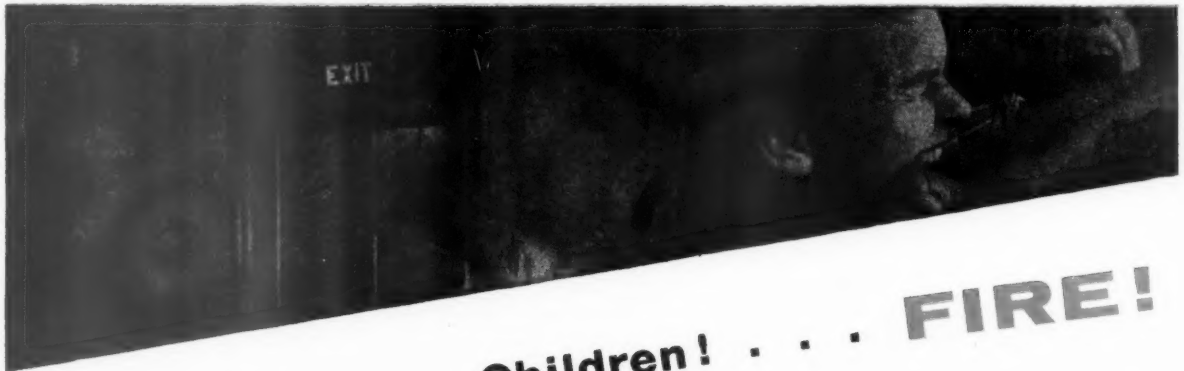
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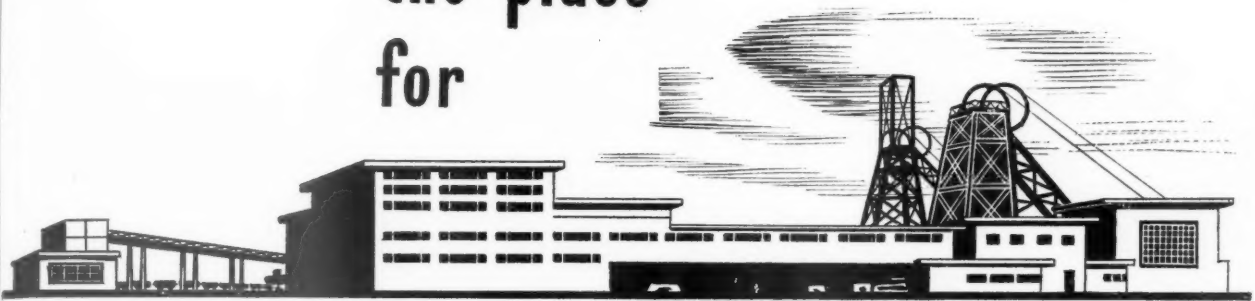


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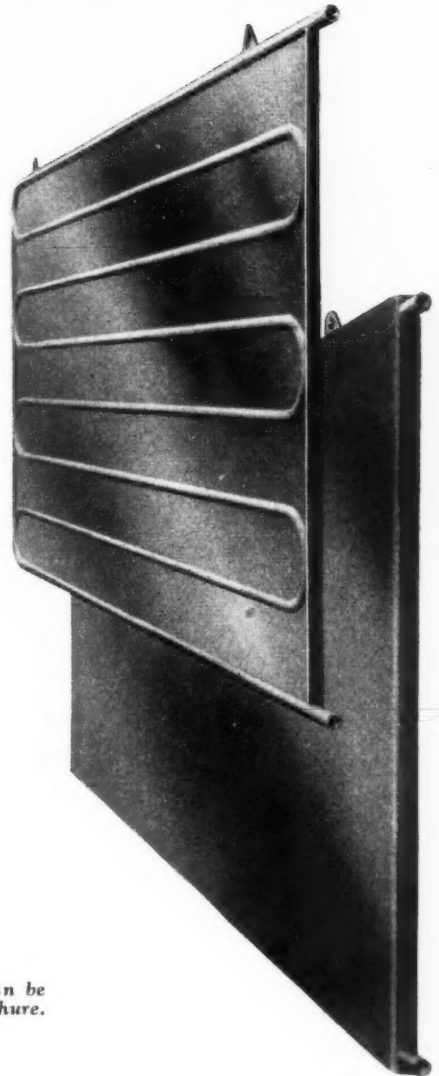


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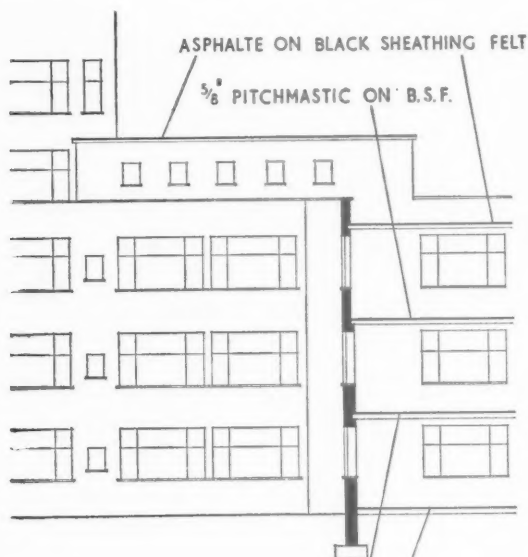
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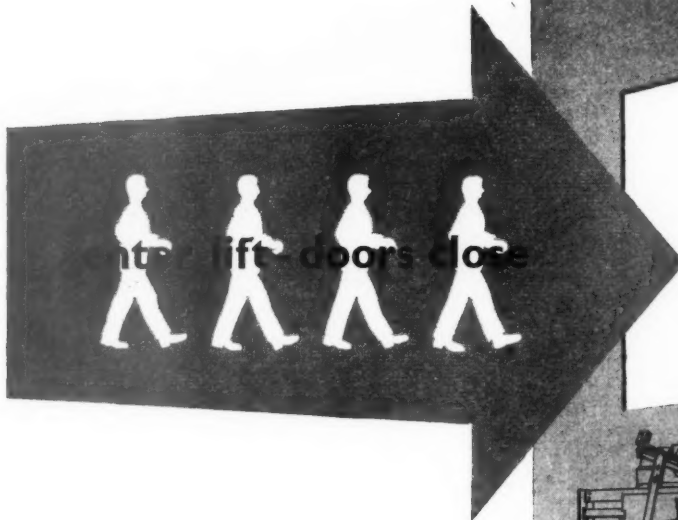
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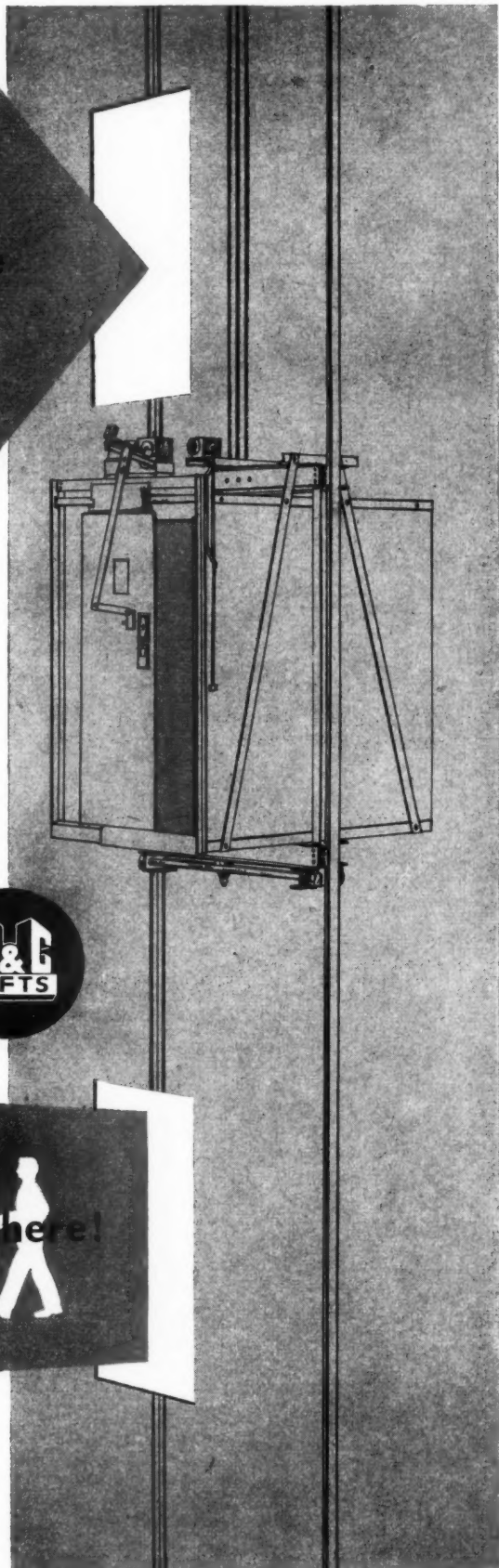
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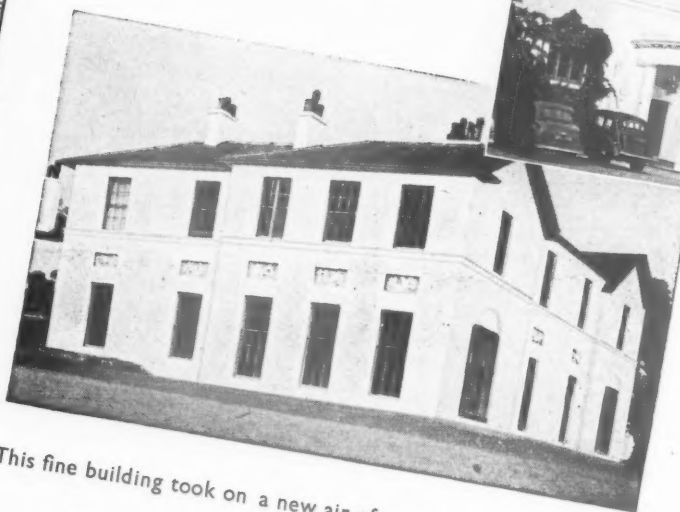
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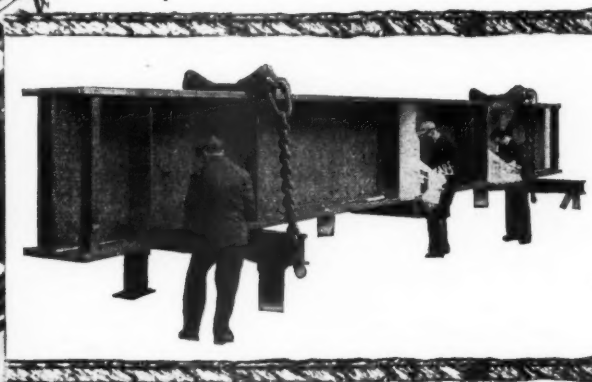
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PATENT GLAZING S



Roof of new assembly shop at Daimler Radford Works. Architects: Wood & Kendrick & Williams, F.F.R.I.B.A. Chartered Architects.

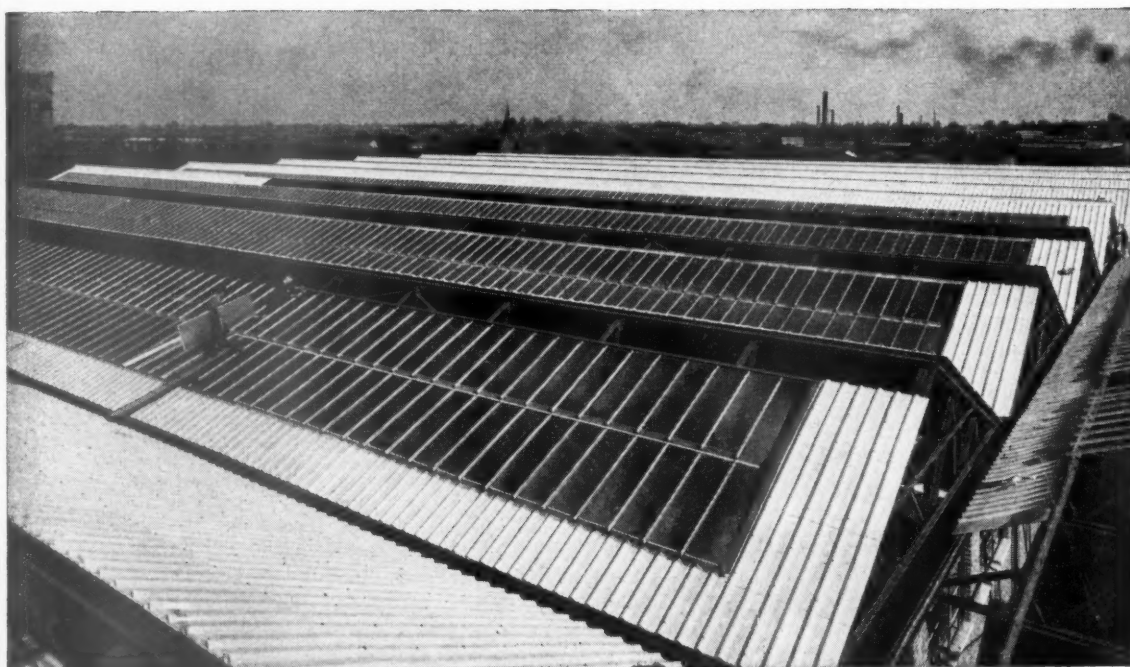
To provide the large amount of daylight essential to these two workshops was a major problem of design and construction. In both cases, however, difficulties were overcome by the effective use of patent glazing.

For the assembly shop at the Radford Works, 120,000 feet super of aluminium patent glazing was used to provide the roof

lighting, and ventilation was provided by 50 continuous opening lights operated by electrically controlled double tension gearing; while 50,000 feet super of aluminium patent glazing was used for the roof of the assembly shop at the Waverly Works. Both workshops are fine examples of the use of patent glazing in the construction of large industrial buildings.

G SPECIFICATIONS

**LARGE RUNS OF PATENT GLAZING IN THE
ASSEMBLY SHOPS AT THE DAIMLER RADFORD
WORKS AND THE B.S.A. WAVERLY WORKS**



Roof of new assembly shop at B.S.A. Waverly Works. Architect: Holland W. Hobbies, F.R.I.B.A.

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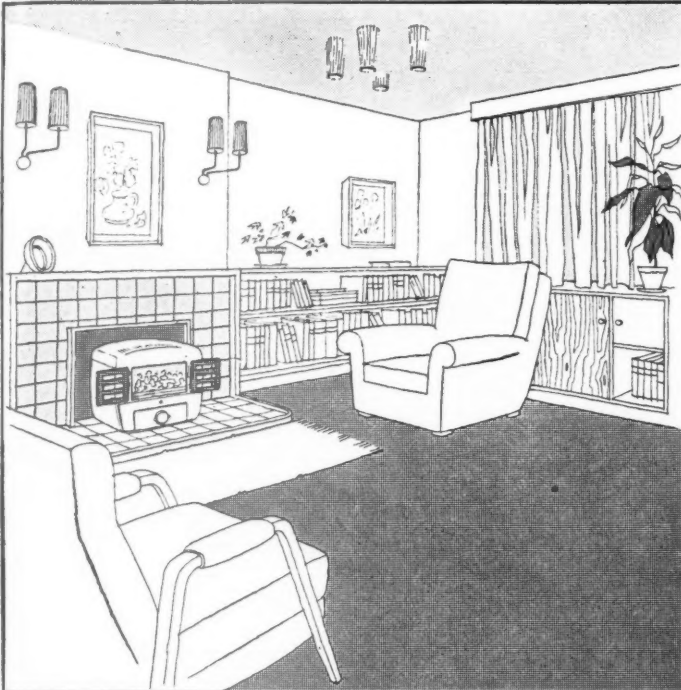
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SPECIFICATION Vitreous enamel cast iron outer casing. Two side hinged fire doors with mica panels. Cast iron lining to firebox. Externally operated shaking bottom grate and removable front bar. Spinwheel air control. Mild steel ashpan. Operating tool.

COLOURS Beige mottle, fawn mottle or black, Alisheen black, bramble, copper, bronze or green.

FLUE CONNECTION Height to top of flue outlet .. $15\frac{7}{8}$ ins.
Outside diameter $4\frac{3}{4}$ ins.

The design and construction of the Panda are to a very high standard. Accurate control over the rate of combustion is a feature which ensures fuel economy.

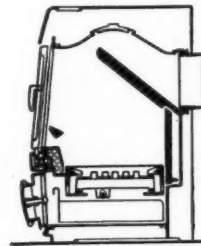
NOTES

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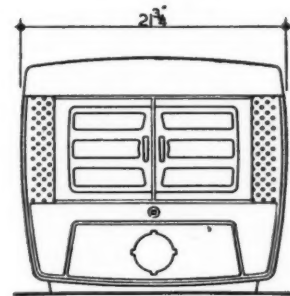
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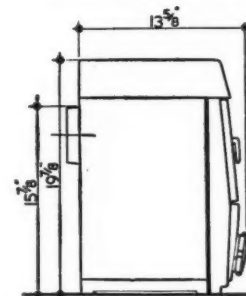
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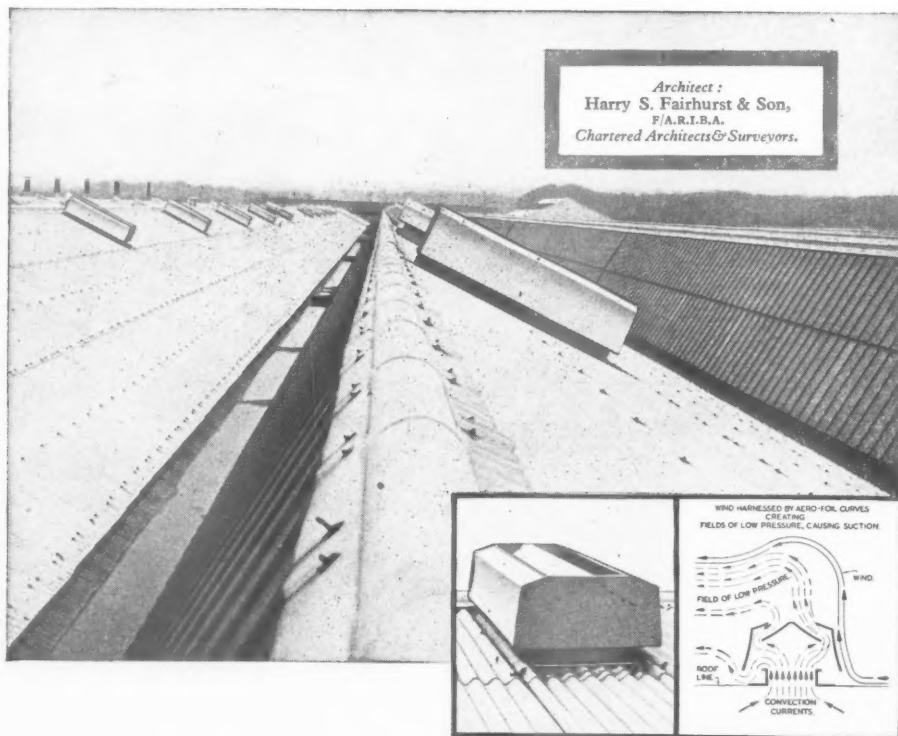
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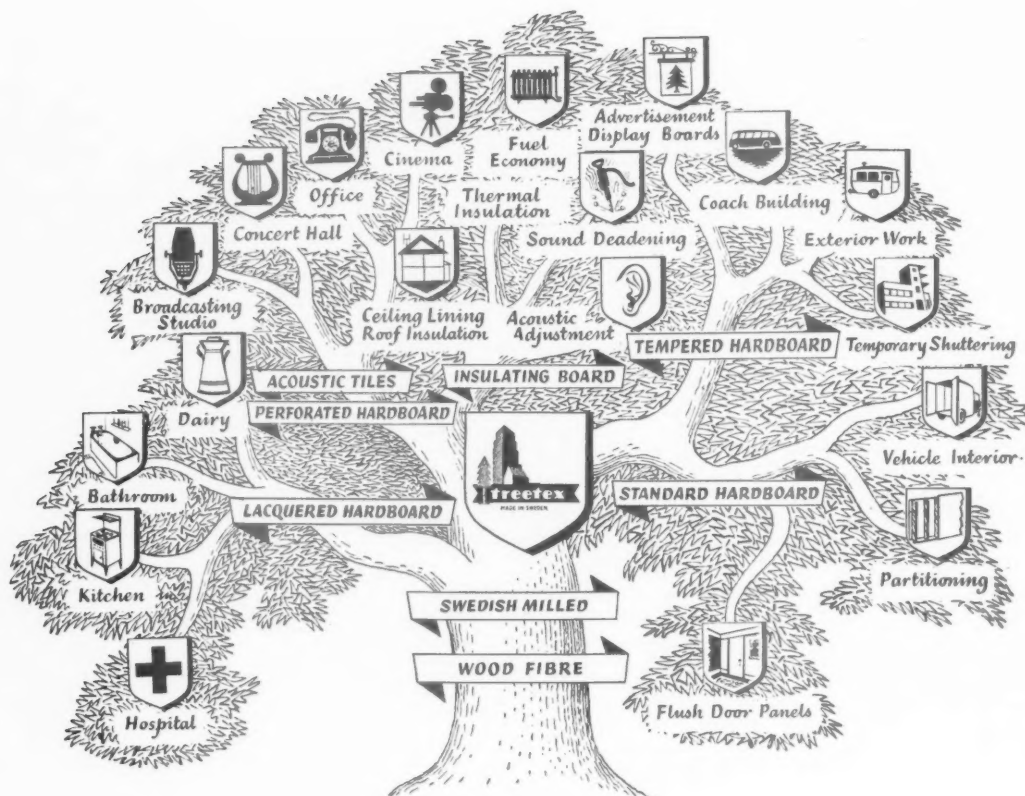
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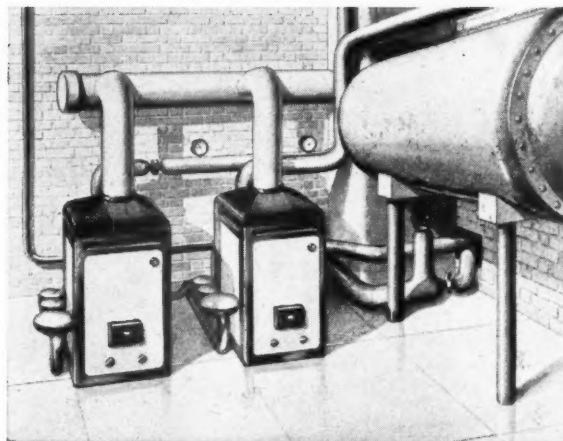
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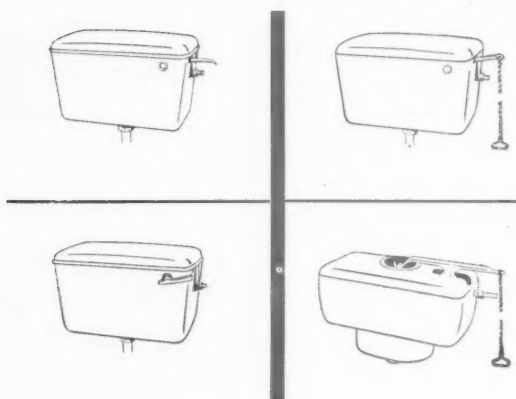
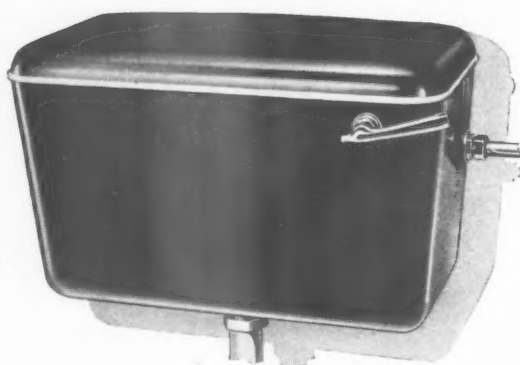
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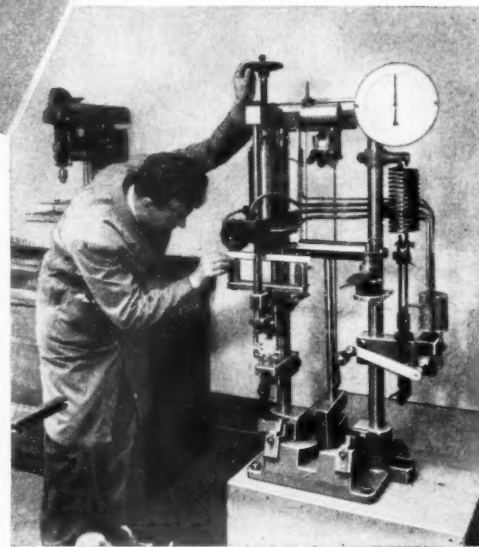
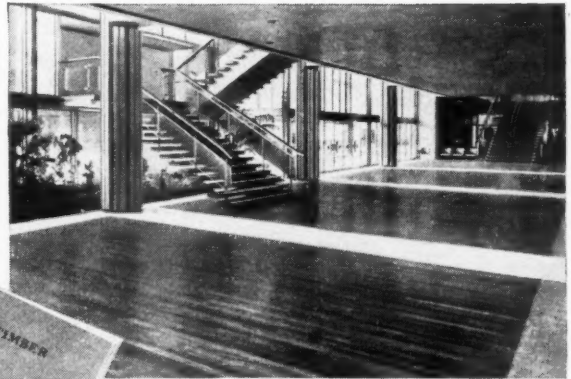
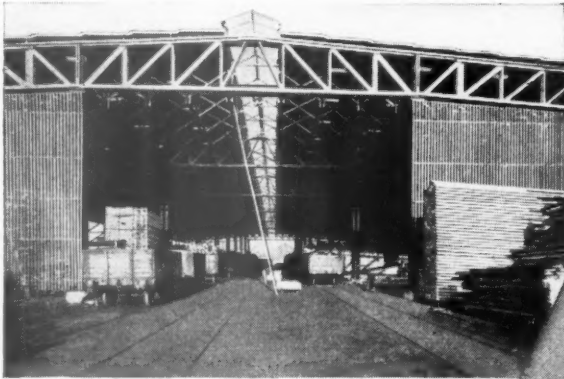
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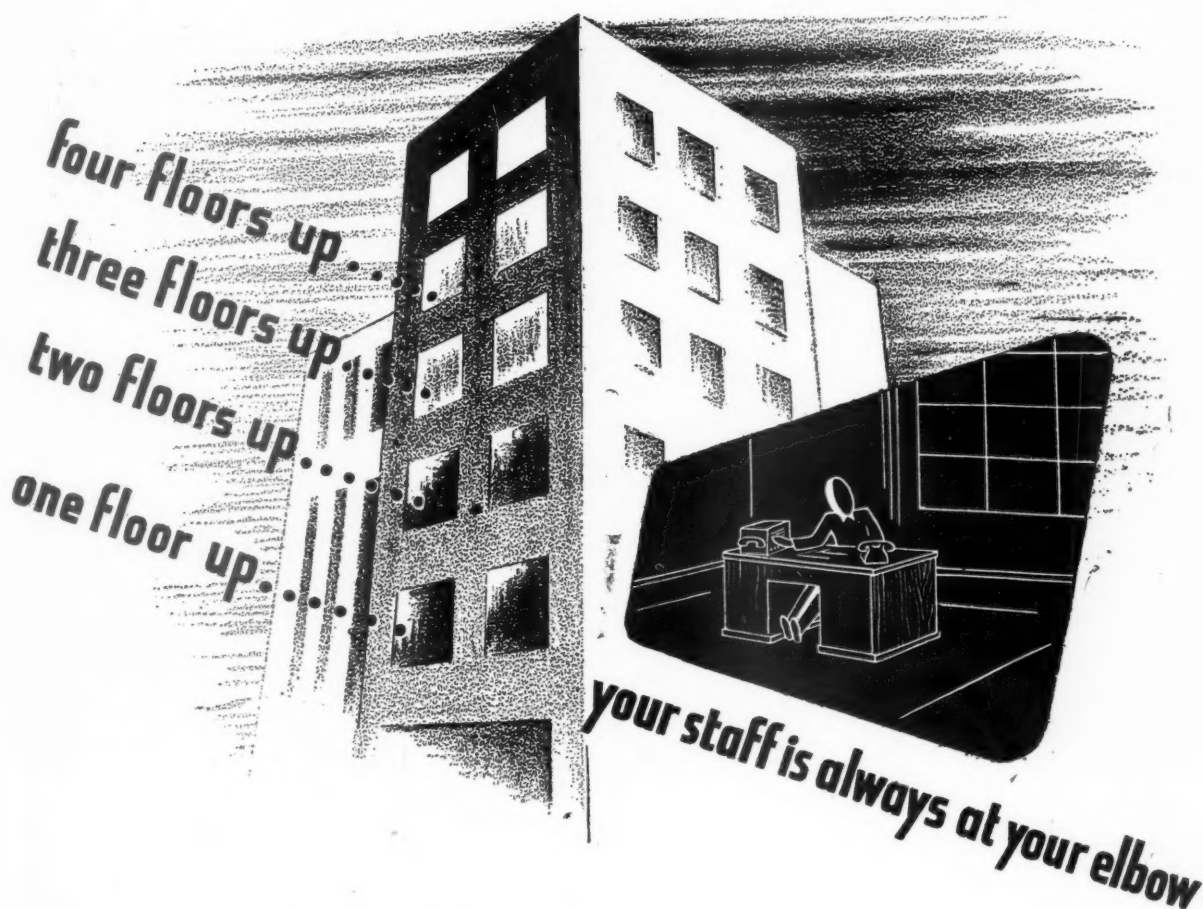
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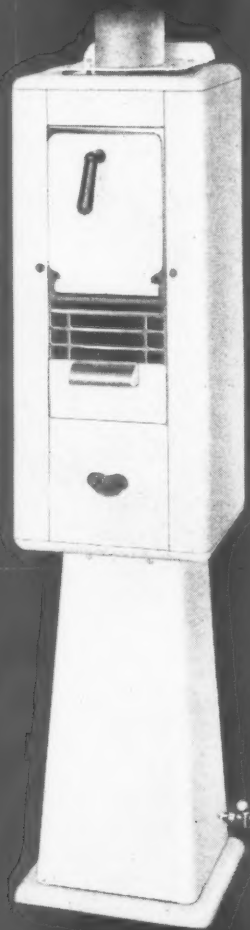
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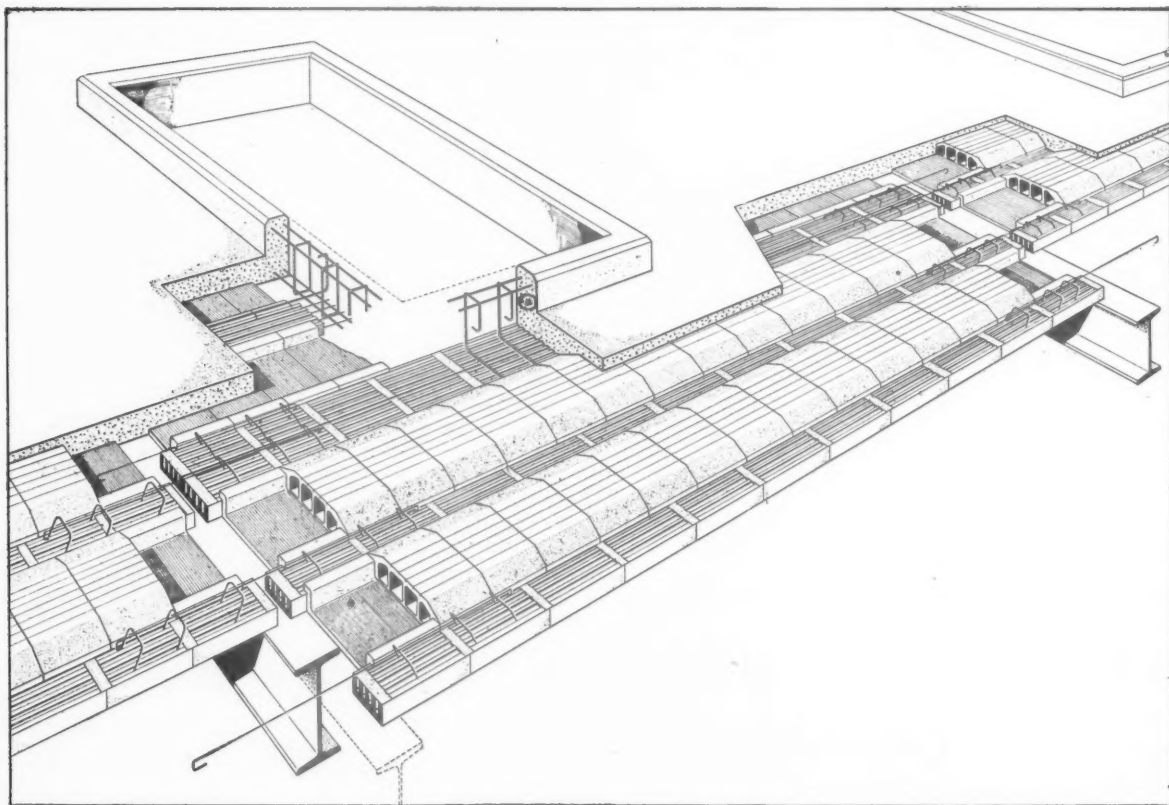
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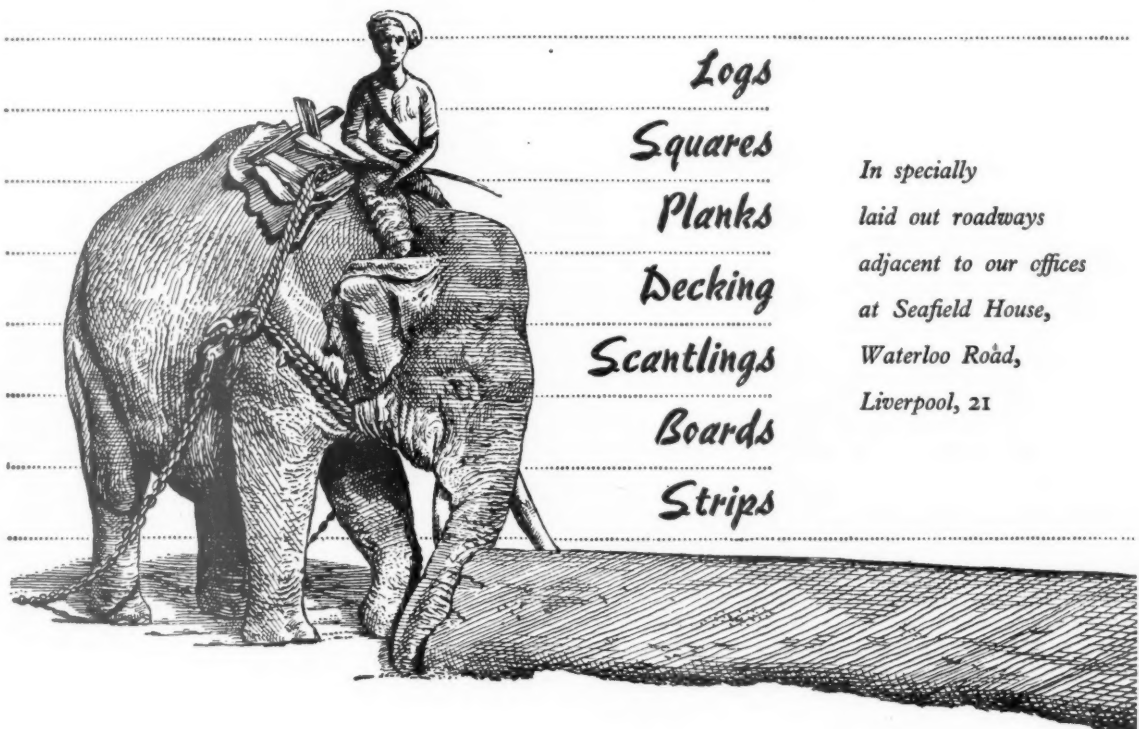
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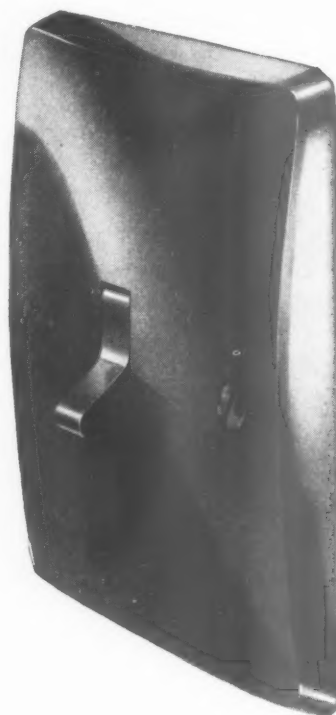
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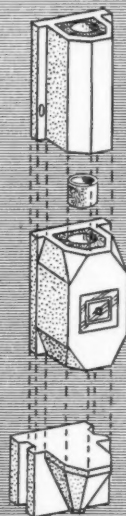
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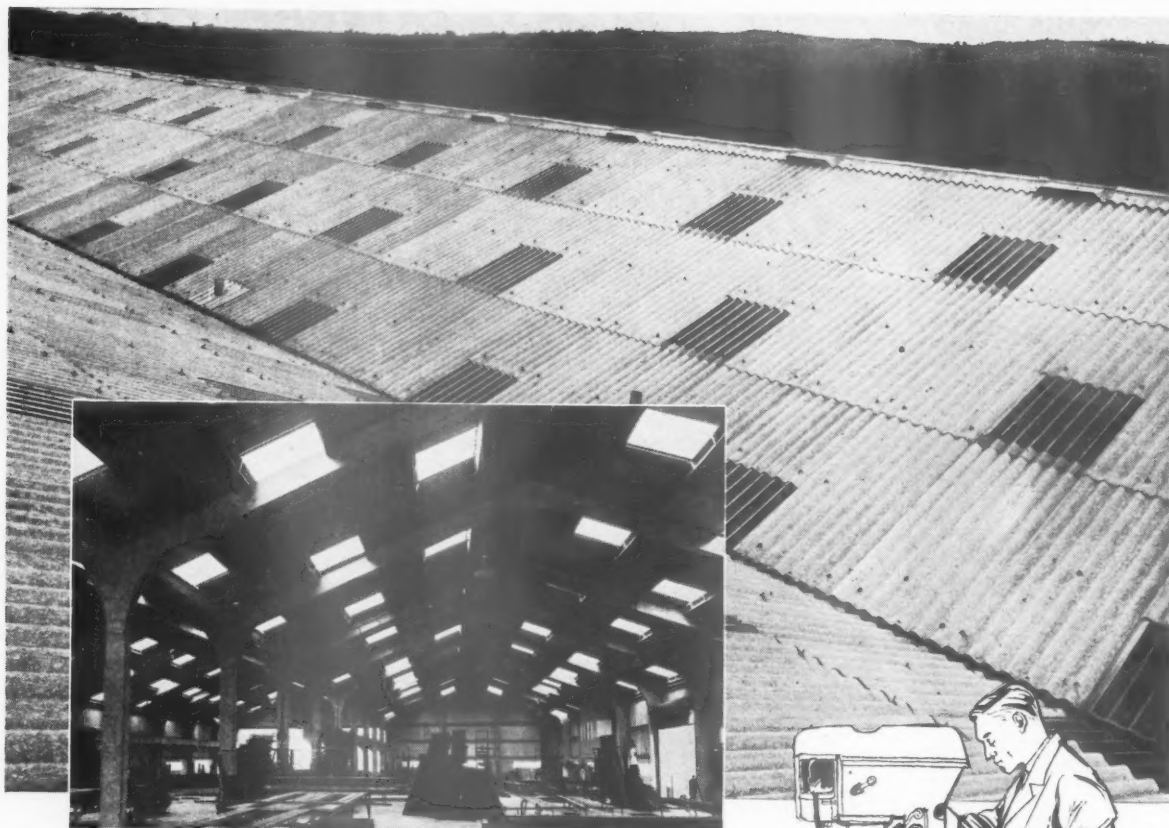
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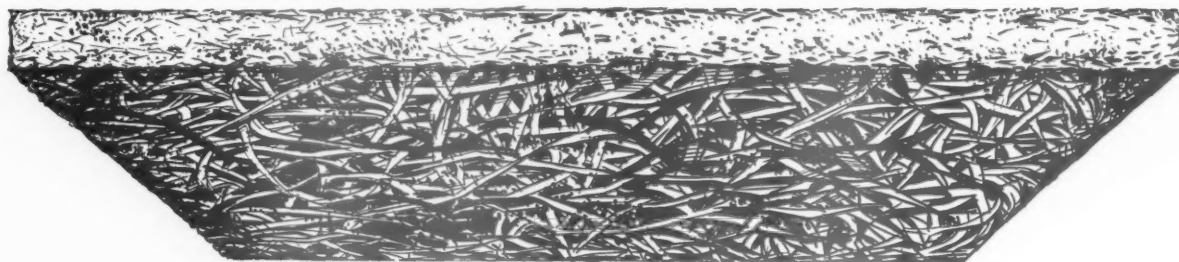
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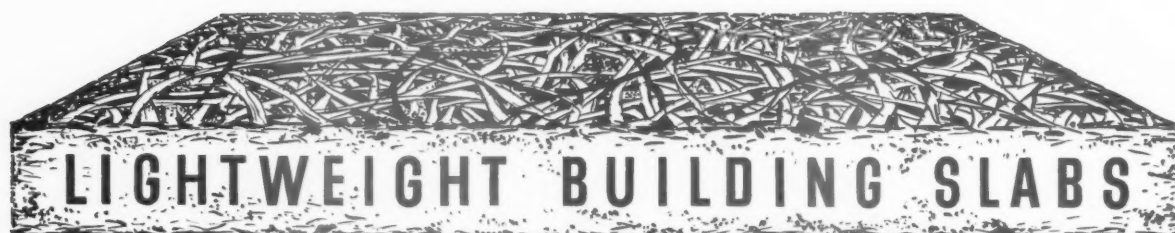
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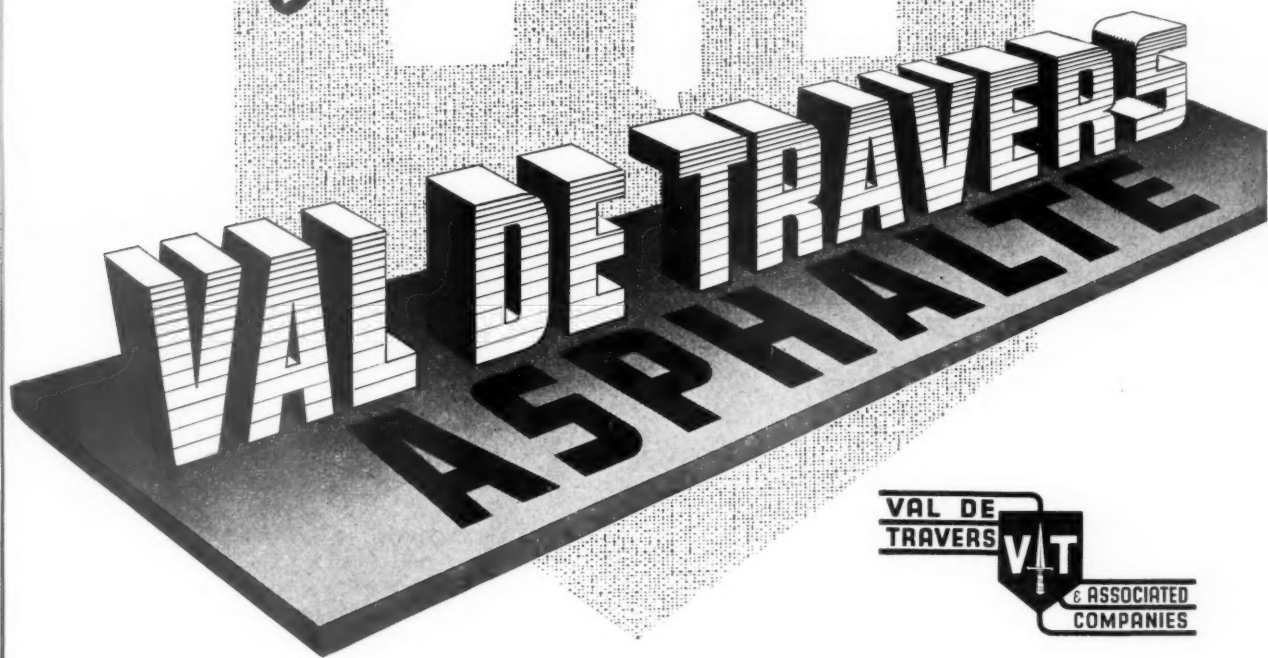
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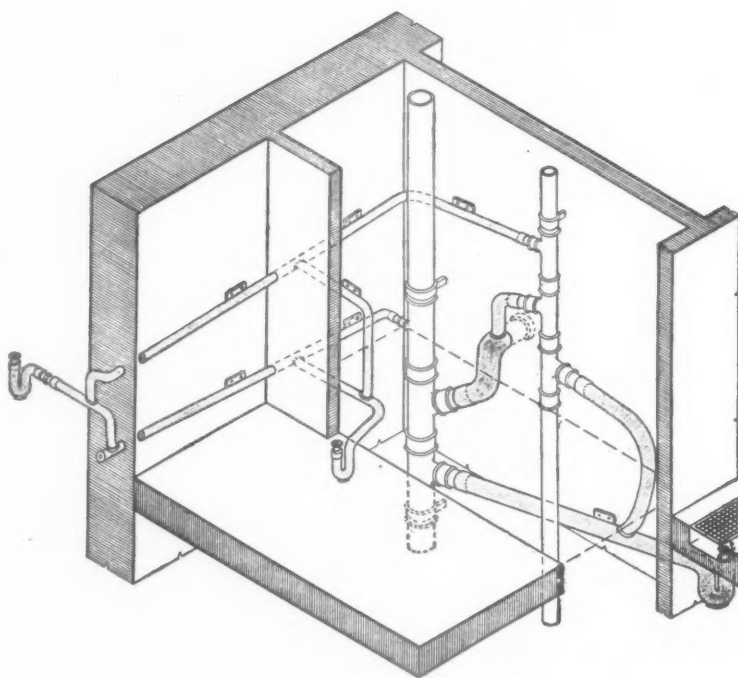
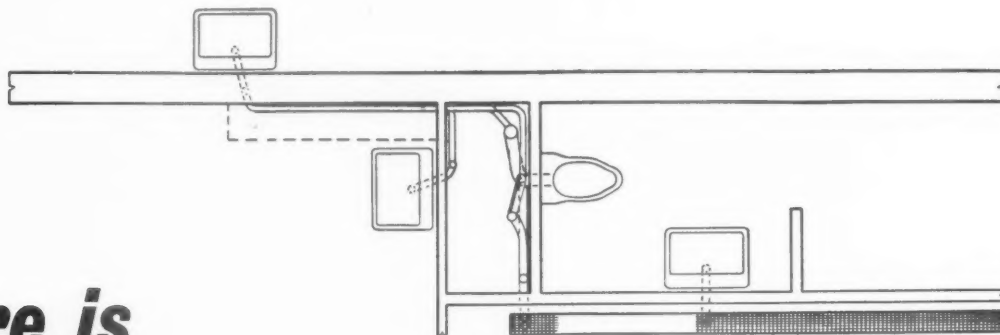
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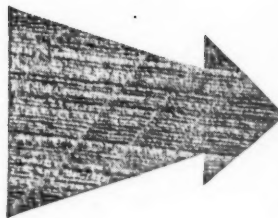
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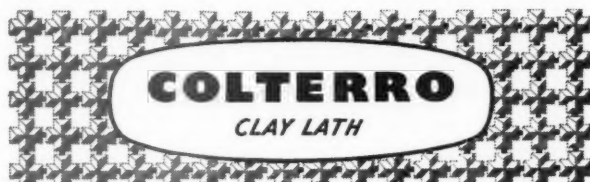
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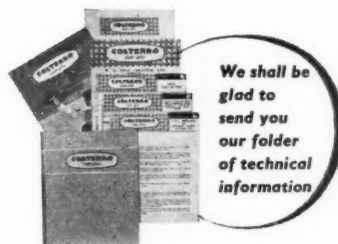
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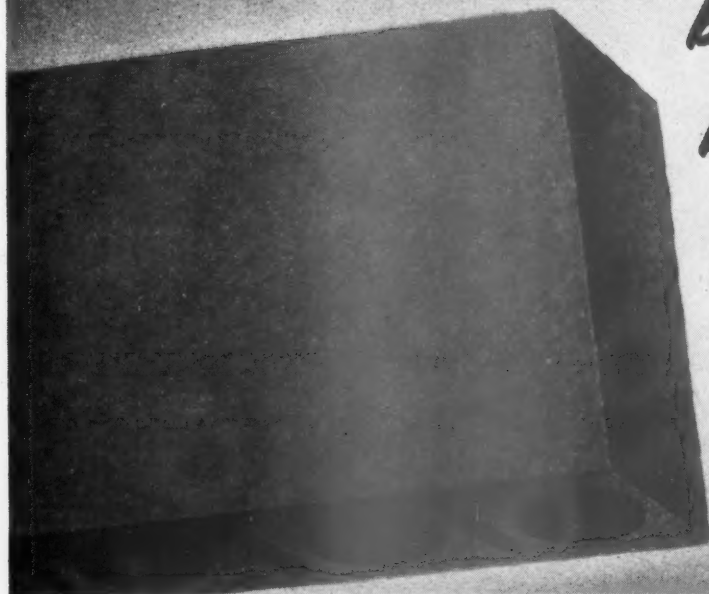
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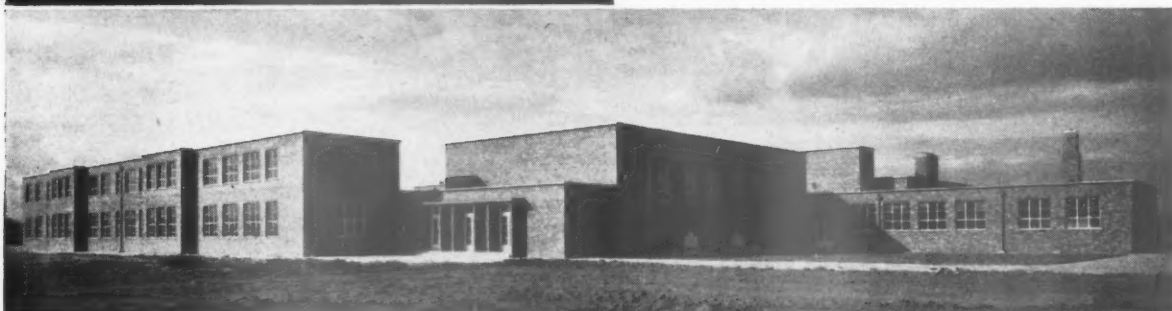
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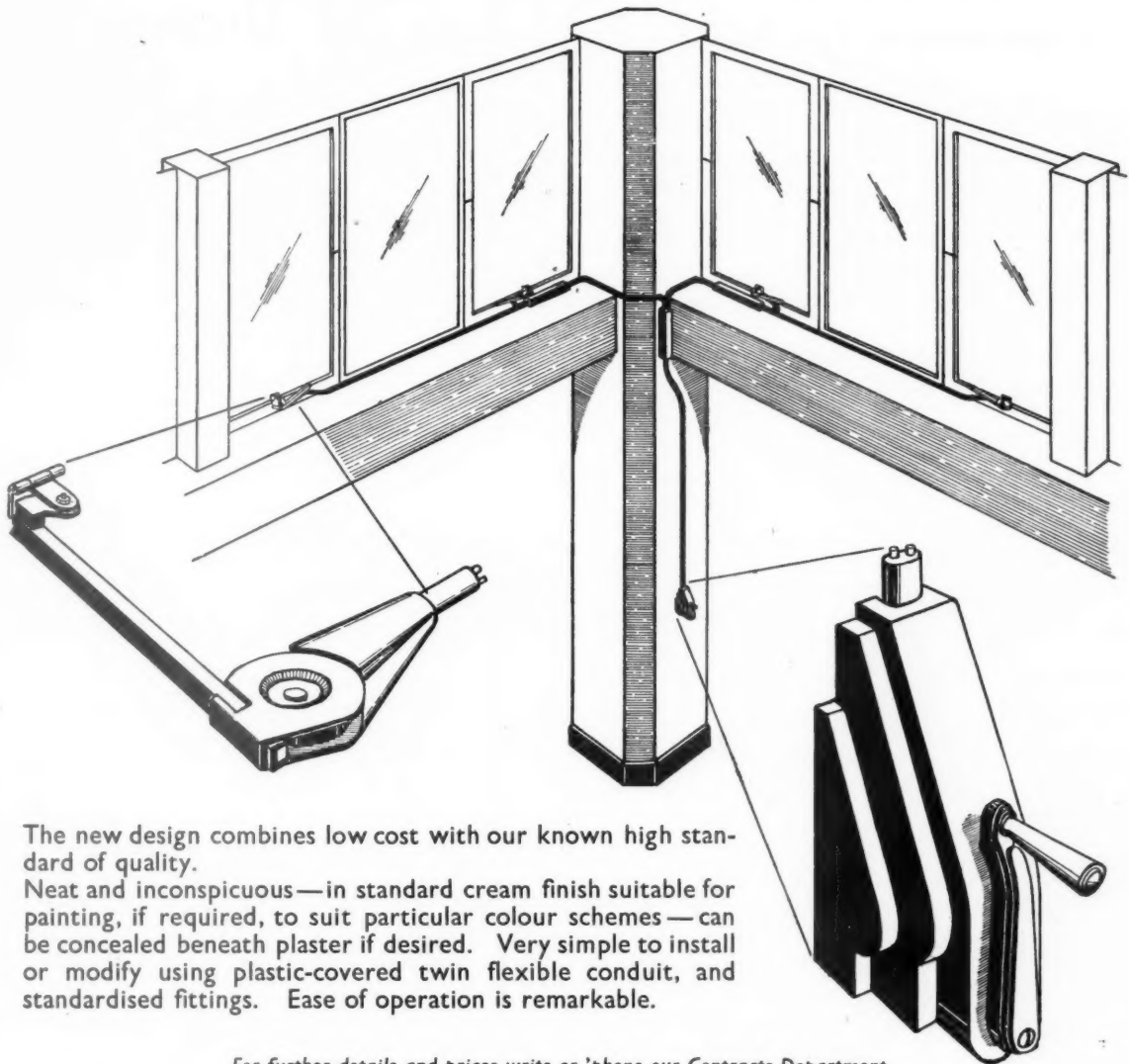
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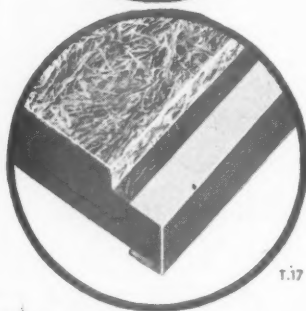


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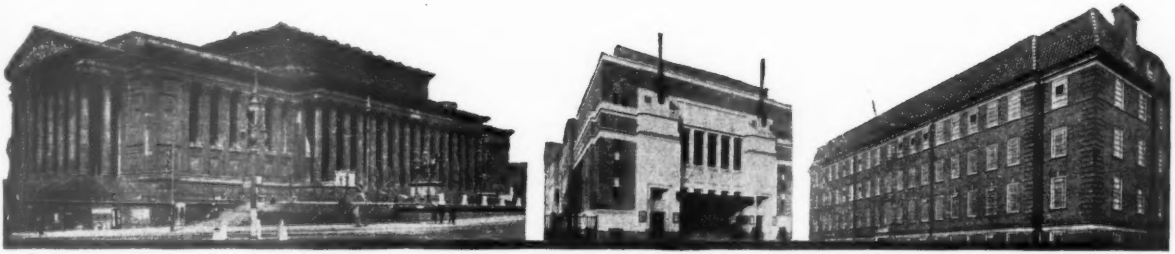


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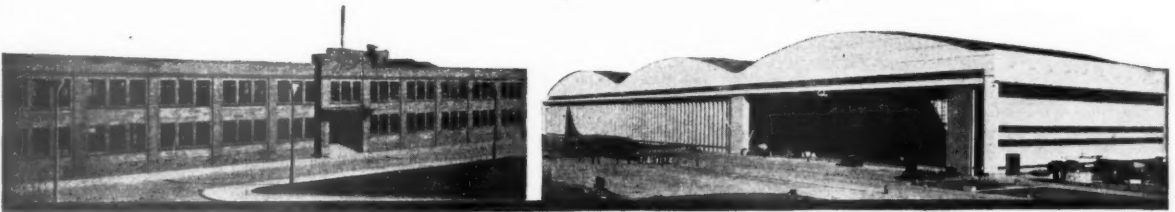
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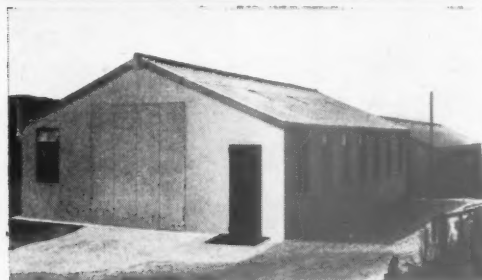
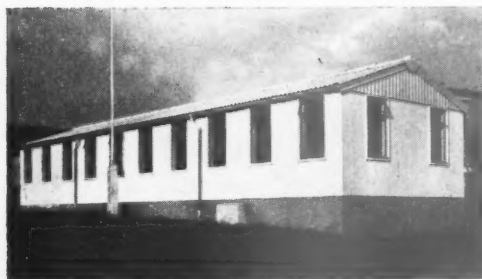
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INSET: Church Hall, Saltford



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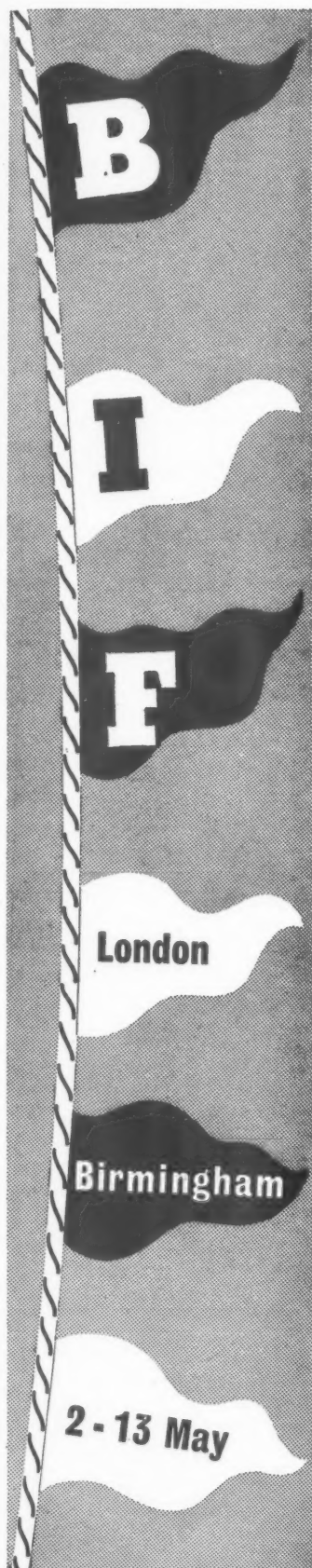
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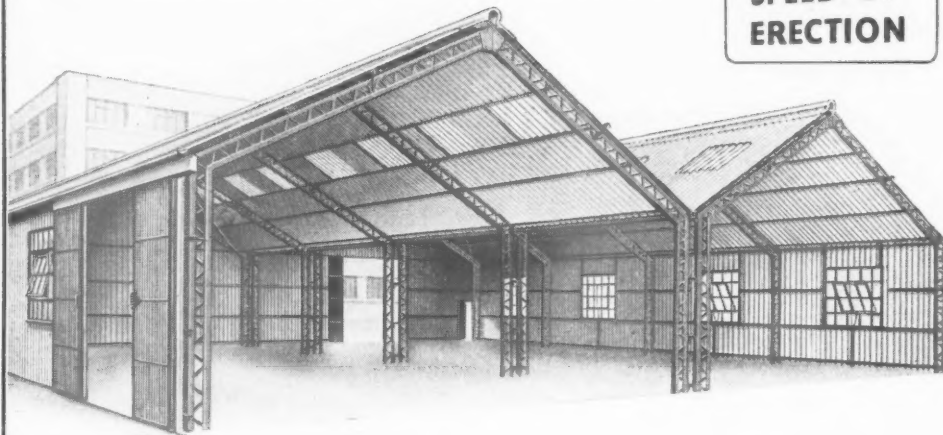
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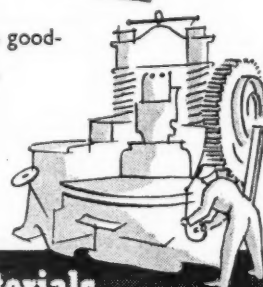
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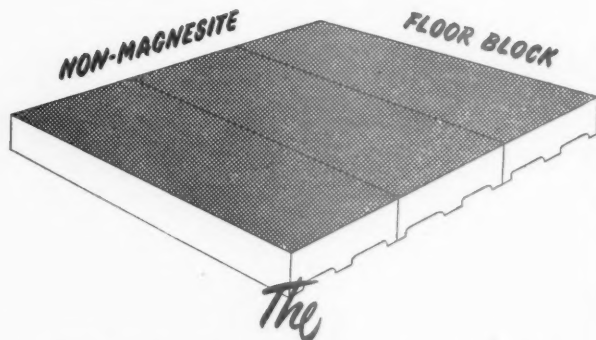


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This month we use our space for a summary of information for architects and consultants. It might seem useful enough to be cut out and put in your reference file. (Please use the request slip* for immediate needs.)

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— HEAT USAGE ?

— HEAT RECOVERY ?

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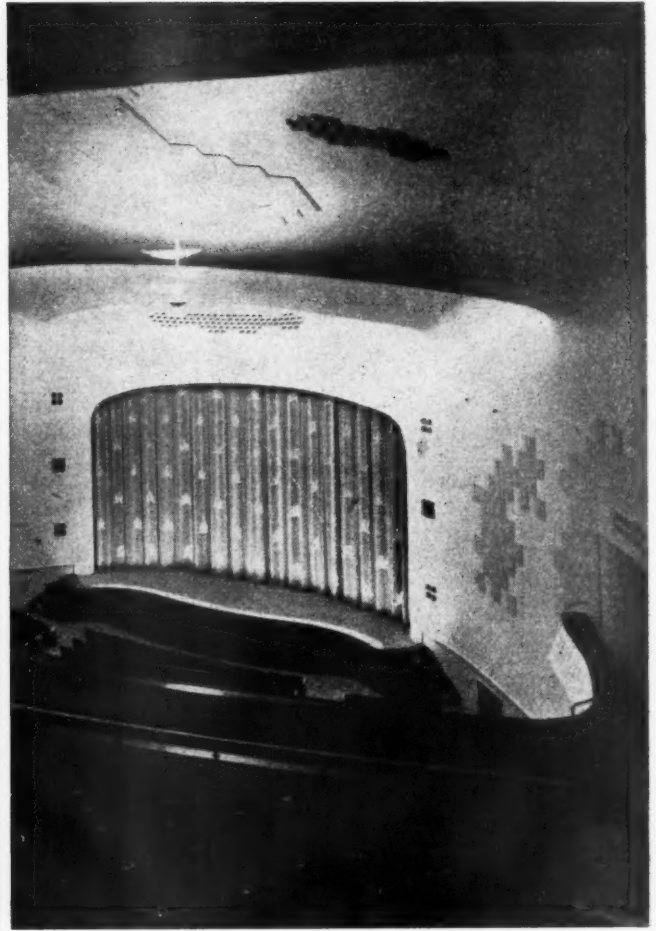
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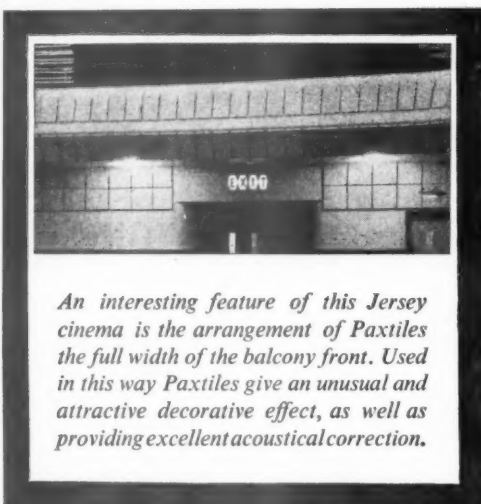
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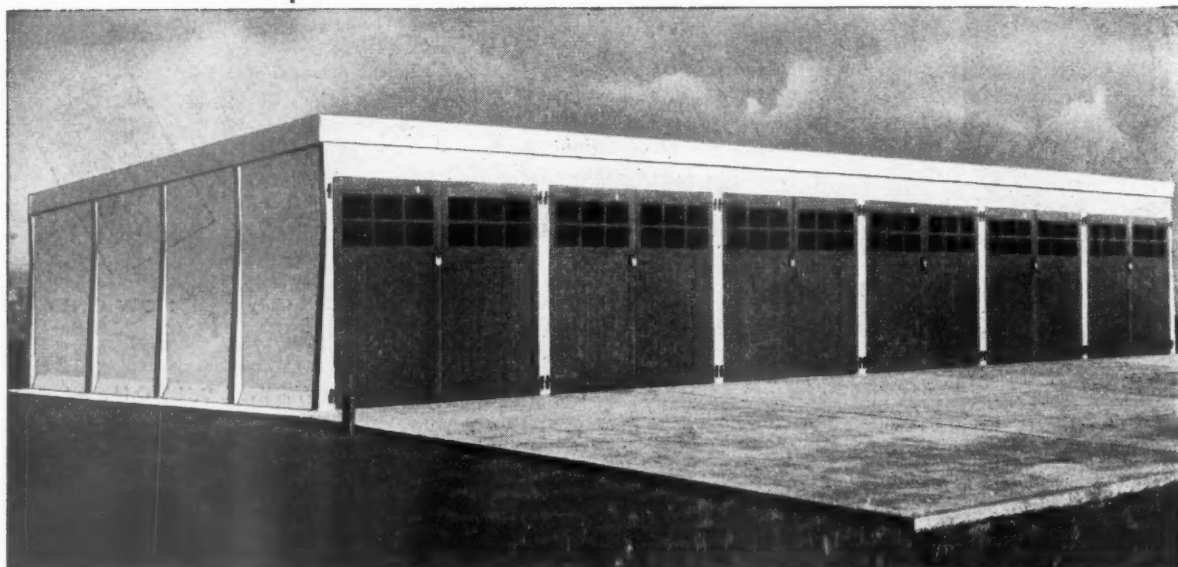
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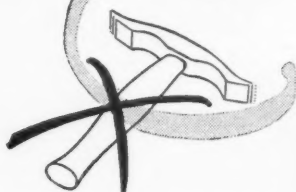


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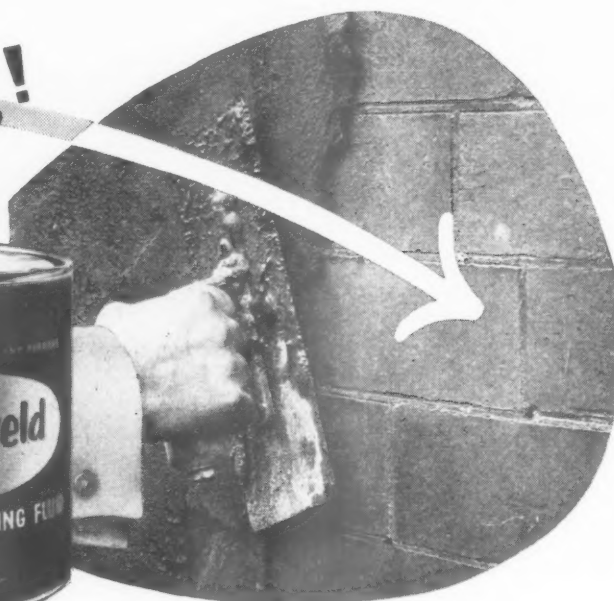
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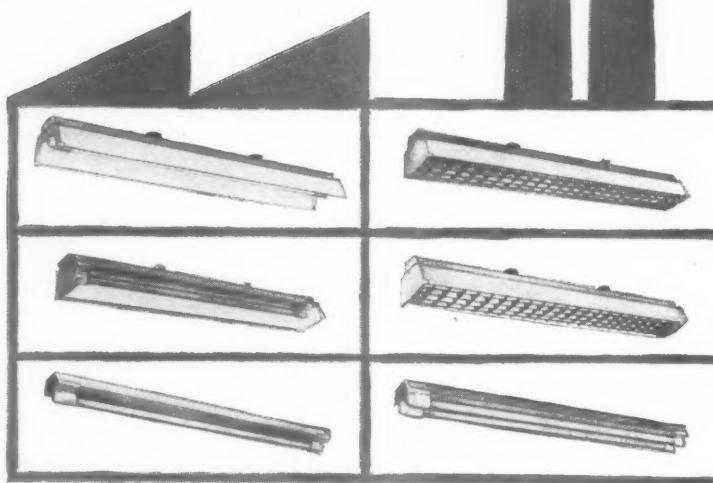
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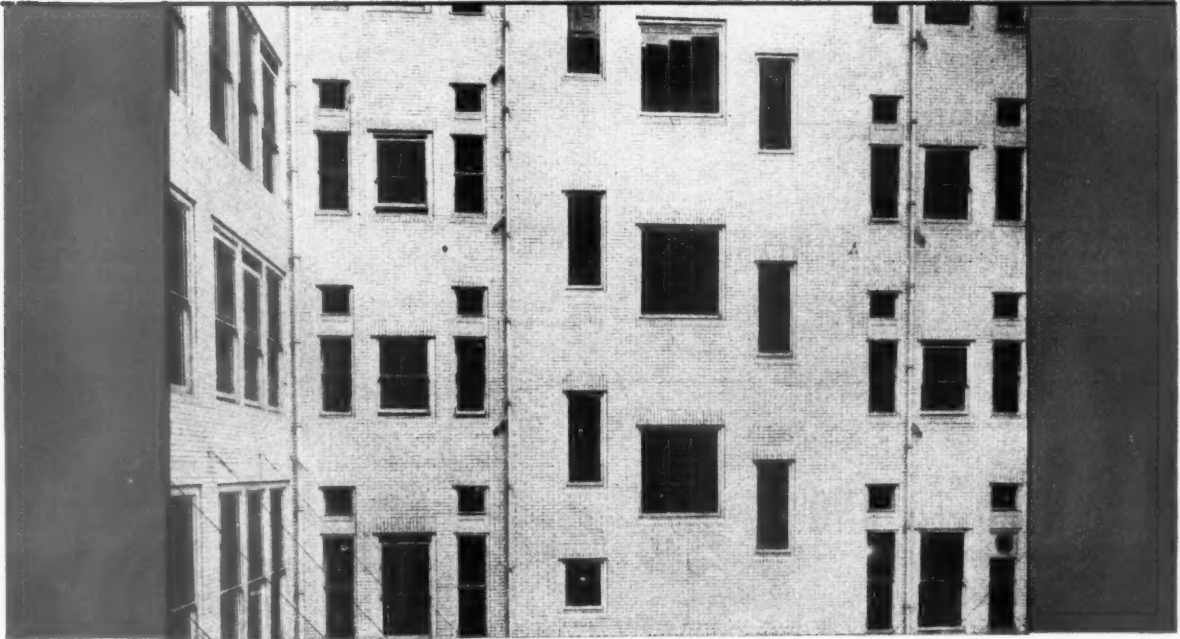
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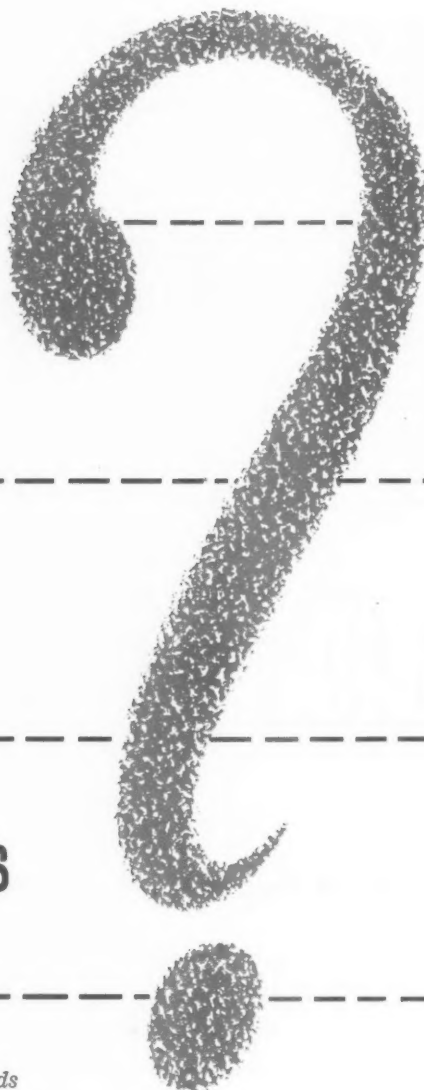
Let's admit it . . . no architect *needs* to know every detail of a wiring installation. He leaves that, very often, to the electrical contractor.

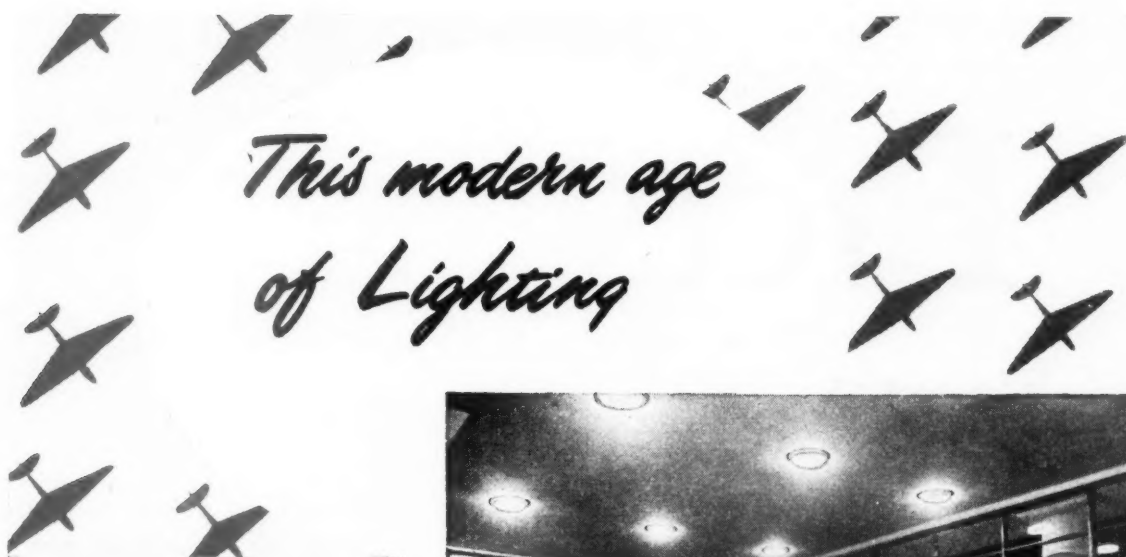
But he'll need to know a reliable make of cables to specify, with a type to suit *every* purpose.

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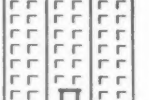
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of installation costs...
between an Ascot
plus open fire
and open fire plus
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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous.

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No. 3140

May 5, 1955

VOL. 121

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A BIGGER AND BETTER ACADEMY

So you architects couldn't even fill two galleries at the Royal Academy show when you had the chance. Long before work was submitted this year the new president, Professor Richardson, asked for extra space for architecture—and the hanging committee had quite a job to fill three-quarters of the space allocated to them. But at least the exhibition bulged out of its usual gallery, where it can so easily be missed by a public in search of "Goldfish-Baiting at Chorlton-cum-Hardy," and there is a good chance that more people than usual will look at the architecture.

*

By a piece of good luck they will see

an exhibition that is more worthy of the profession than the Academy has shown for many a year. As the JOURNAL editors point out in a leading article on page 595, there seems no reason why this improvement should not continue in other years, however reactionary the hanging committee may be. ASTRAGAL joins them in urging you all—both private and public architects—to follow the lead set by the LCC and by several distinguished designers in private practice, and to overwhelm the Academy with good entries next year, so that the profession gets itself a really first-class annual show of its best work.

PROFESSOR RICHARDSON, HE SAY . . .

We have Professor Richardson to thank for the size of this year's exhibition, but we cannot thank him for his contribution at last week's Academy Banquet, where he let the profession down badly. Fortunately he let us down not so much by making forthright and sweeping statements about the contemporary idiom, which he detests, but by making what was surely the most incoherent speech the Royal Academicians have ever heard at their banquet.

*

It is true that somewhere amid the wild promises ("I intend to give you a message that will ring through London tomorrow"), the discovery of a New Realism in this year's paintings and the contention that the New Spirit on the walls of the Academy "might be symptomatic of a new spirit of unity among all nations," the president accused modern designers of lack of imagination, put out his tongue at some of the architectural schools and asked for a suppression of high buildings, which London "does not need." But to

ASTRAGAL's delight these remarks were well lost in a muddle of rhetoric. When Professor Richardson took office at the Academy, many architects must have felt alarmed at the things he might say in that position. It is something of a relief that he has allowed his biggest opportunity of the year to slip by without justifying that alarm.

*

Apart from Professor Richardson's speech the Academy Banquet was a very civilized affair. The Prime Minister neatly compared art with diplomacy, and let us know that he had learned to recognize a painting when he saw one; and Mr. Justice Pearce convulsed the assembly of goodly men by telling them about the dance partner who claimed to be a little stiff from Badminton—a joke which is as new as the New Spirit which Professor Richardson has permitted himself to find on the Academy walls.

RIBA POLICY STATEMENT

As the JOURNAL goes to press ASTRAGAL has received a copy of a letter the RIBA Council has sent to all members. It is a welcome official confirmation of the suggestions made by the JOURNAL editors, in a leading article of April 17, that the RIBA is the proper organization for discussing different points of view on practice and the profession, rather than that controversial matters be put forward through the creation, or support of, other professional bodies. One can only emphasize the argument in the JOURNAL leader: such splinter groups are encouraged while the RIBA remains so silent and secretive. Perhaps the newly-formed public relations officers in the Allied Societies could also act as private relations officers and tell members



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what the RIBA committees are doing, and perhaps Secretary Spragg could write yet further letters on behalf of the Council, describing its activities. Though, on second thoughts, one rather wonders what *The RIBA Journal* is for.

INAUGURAL ADDRESS

The new professor of Civic Design at Liverpool, Myles Wright, is not a member of the TPI. Nevertheless, his inaugural address is a first-rate reappraisal of the planning situation which confronts the country today. He points out that in the past ten years planning has been stultified by the need for short-term answers to get the country back on to a balanced peacetime economy. Now, he appears to imply, we need a much more positive planning lead, at a national level, particularly on such subjects as decentralization; traffic congestion and the rehabilitation of central areas. The address will be published very fully in next week's JOURNAL.

TUDOR BOY

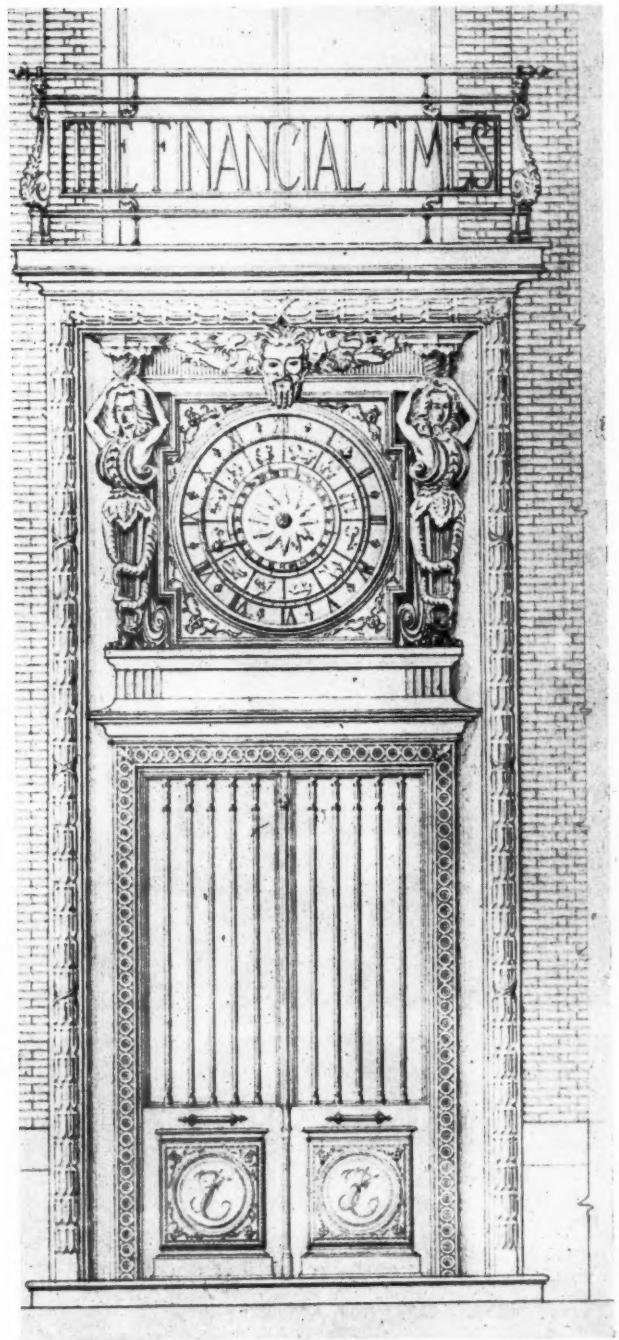
There is a lot of hopeful rubbish talked by pseudo swashbucklers of this being the new Elizabethan era. One of Liverpool's architectural firms, Sir Alfred Shennan & Partners, is taking this phrase too literally, to judge by the way it has redesigned a '39 proposal for a neo-Georgian Cheshire pub into what *The Liverpool Echo* calls "characteristic half-timber" and what its clients' advocate called "neo-Tudor." "The lower half of the building would be in rustic brick with stone facings to the windows . . ." says *The Echo*, "and leaded panes of glass. The upper part would be in light and dark woodwork. . . . The layout was not very dissimilar from the original plans."

*

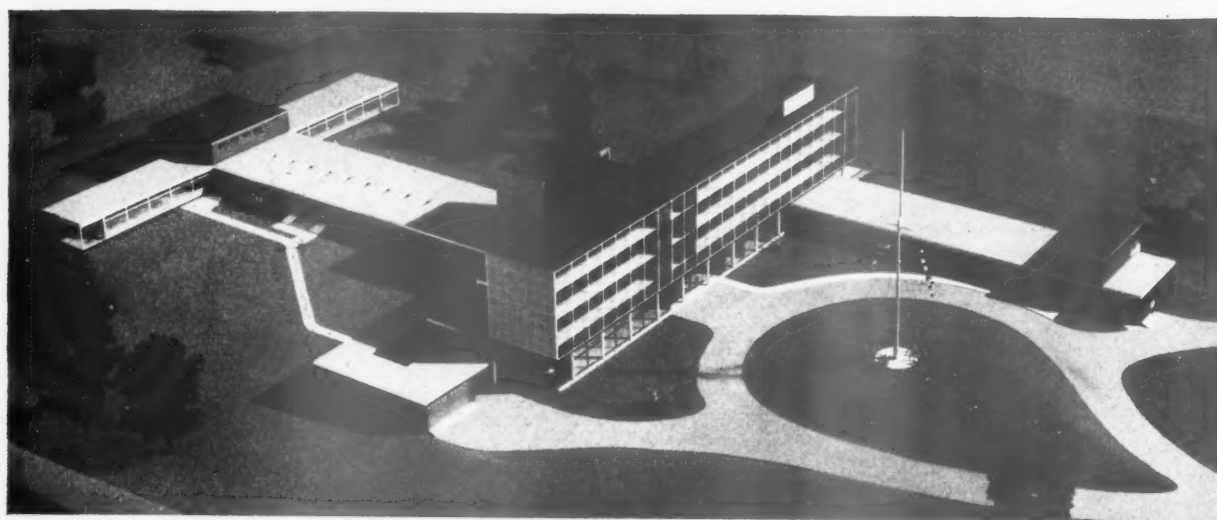
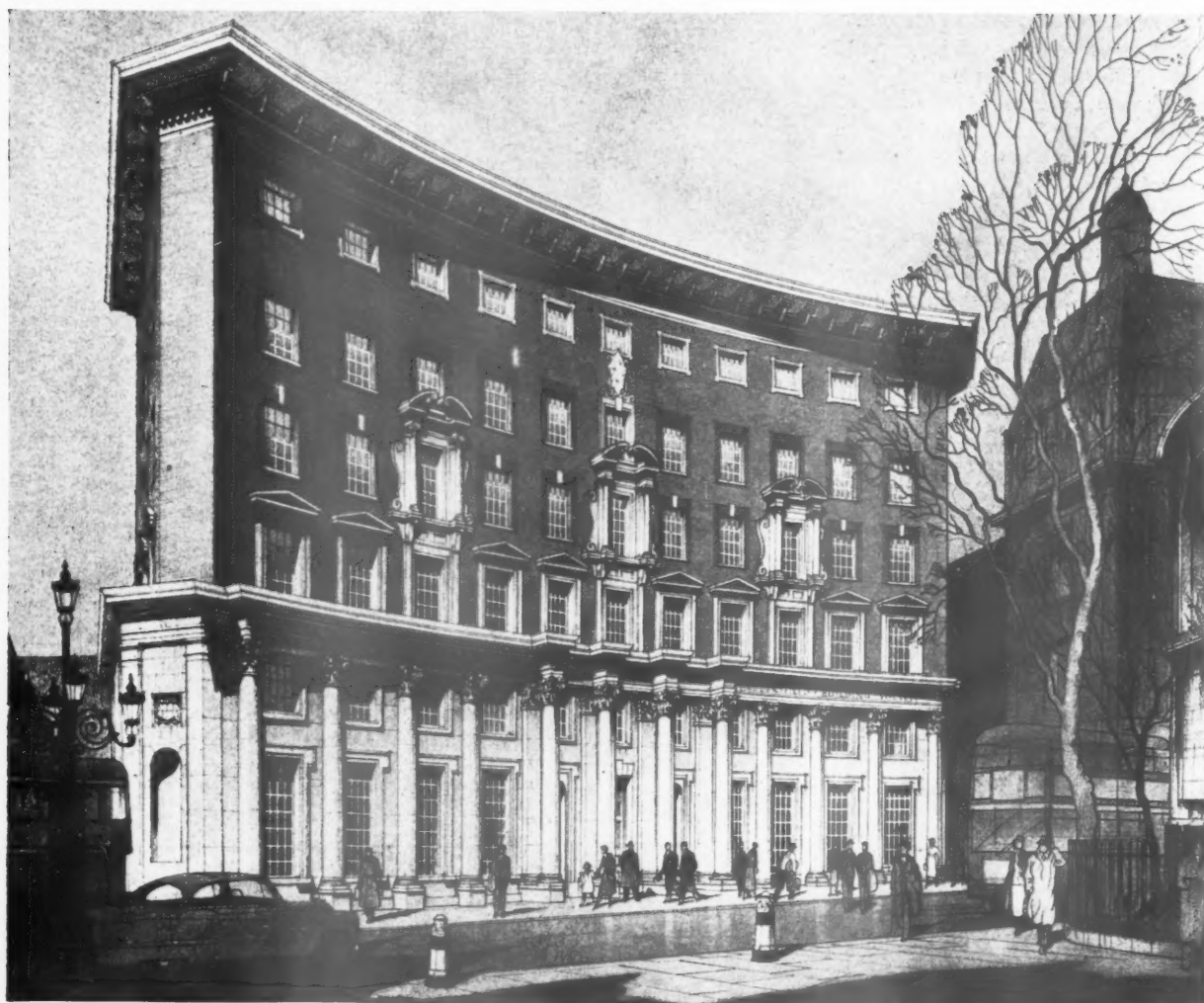
ASTRAGAL had received several cuttings on this story about an application put before the Wirral Justices for a pub at Bebbington, but paid no attention (so used is he to the facility with which architects can design in a variety of styles) until friend ABNER, of *The Architect and Building News*, reminded him of his duties. So back to the correspondence file. One reader writes to say that he has sent a cutting to the Ministry of Town and Country Planning. (Perhaps that's half the trouble—there isn't one?) Another

points out that there is no old half-timbering within ten miles of the proposed pub's site. A third writes that the JOURNAL's campaign against poorly designed spec. housing and "abominations such as neo-Tudor" will never succeed while architects continue to

design in this way themselves. How right reader Allan, of Liverpool, is. Could not the RIBA divide its members into two, and issue little labels to distinguish those builder-designers-who-will-design-in-any-style from those architects-who-are-contemporary-



In the architecture rooms at this year's Royal Academy show there is, in the opinion of the Academy's president, Professor A. E. Richardson, a "lack of civic embellishment." The president is too modest: this detail from his design for The Financial Times building in London surely makes up for any "abridgements both in form and costume" (the president's words) which are found elsewhere in the exhibition.



Academy Paradox

Both ASTRAGAL and the writer of this week's editorial (opposite) comment on the increased number of good designs to be found in the architectural section of the Royal Academy show, and much of the better work is illustrated between pages 598 and 602. But one thing about this exhibition remains a mystery: by what standards do the hanging committee make their choice. How is it

possible for the top drawing here to be included in the same exhibition as the model beneath it? Perhaps such a drawing would be squeezed out of the exhibition if the hanging committee was swamped by contemporary designs. is a way of finding out. Send yours in next year. Top: offices, Strand; W. Braxton Sinclair & Ptns. Bottom: merchant seamen's home, Kent; Gollins, Melvin Ward & Ptns.

POINTS FROM THIS ISSUE

- Royal Academy: A better architecture exhibition .. pages 591, 593, 594, 598 and below
 RIBA statement about private societies pages 591 and 597
 Review of MOE Building Bulletin on school kitchens page 615

as-a-matter-of-principle. The client would then at least know what type of architect he was picking and ASTRAGAL would know who was responsible for eclectic design: the client, the architect, or, in this case, the Licensing Justices.

NEWS FROM COVENTRY

Readers will remember that Donald Gibson resigned from the post of Coventry's City Architect last October. The issue which led to this was the refusal of the City Corporation to pay four-figure salaries to the holders of the four new senior architectural posts which Gibson had agreed, with the Treasury's O and M team, should be created. Since then the Coventry architects' department has been having a thin time. About sixteen architects have found jobs elsewhere—a sizeable proportion even in an office the size of Coventry's. ASTRAGAL now learns that the new City Architect and Planning Officer, Arthur Ling, has finally wound up his affairs with the LCC and from last Monday has been "in residence" at Coventry. The four new posts of Principal Architect have been filled too—at improved salaries, £1,310 to £1,520. About ninety architects applied for the posts, but the architects in the Coventry office held their own.

The four new positions were filled by John Barker (schools), Douglas Beaton (central area), Gwyn Morris (housing and neighbourhood planning) and George Sealey (general). Good luck to them, and to Arthur Ling too, in their new posts. The pace of rebuilding is to be stepped up, it is understood, so no doubt there will soon be eager applicants for any future vacancies. And Coventry, it is to be hoped, will be back in top gear and out in the van as the country's leading example of intelligent reconstruction.

Last week there was another event at Coventry which pleased ASTRAGAL: the opening of the new hotel Leofric. This fully came up to the standards suggested by the sketches published in this column a few weeks ago. The opening was preceded by a full-scale fire-fighting exercise, made so realistic by the use of dummy casualties that an onlooker fainted—thereby providing a full-scale amateur first-aid exercise too.

ASTRAGAL

The Editors

A BETTER ACADEMY

THE architecture exhibition at this year's Royal Academy show is bigger and better than usual. It is bigger because the Academy's new president, Professor A. E. Richardson, wanted it to be bigger. He asked for two galleries instead of one; and because an architect-president is something rare, the artists gave way gracefully. But why is the exhibition so much better than usual? Why are there enough good contemporary designs to displease the president, who grumbled, at the Academy banquet, about the "lack of civic embellishment worthy of a great period of reconstruction"?

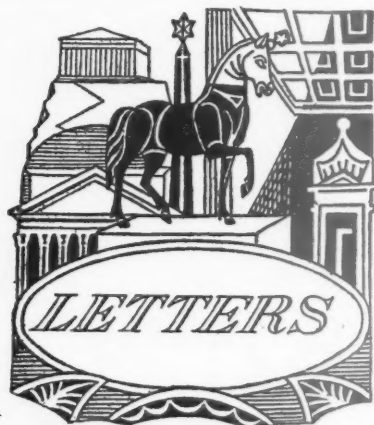
It is not, we understand, because this year's hanging committee (two far-from-contemporary-minded gentlemen) has turned away a great deal of familiar Academy stodge in favour of contemporary buildings. Somehow the work submitted this year contained a much larger proportion of good design than usual, and the committee—which had instructions to accept more than usual—was not so reckless as to reject any of it.

It is a happy coincidence that the first enlarged exhibition should also be a better one. There was a time when we were glad that the public circulating through the main galleries could easily miss the architecture room. But we are now glad that the improved exhibition has invaded a gallery of painting, where such schemes as the Rangoon Engineering College's assembly hall (in model form), and competition designs for the "Gaiety" office block site, may seduce the laymen from the more familiar delights of girls getting carelessly out of four-posters, or peaches squatting prettily on willow pattern. If the public is to be lured into the architectural section at the Burlington House show, we do not want it to see acres of Georgian office blocks and Gothic churches.

There are several new names in this year's catalogue—names of architects who have decided to stop looking on the Royal Academy as merely a joke. But if the profession is to take advantage of this year's improvements in the architecture exhibition, many more entries must be submitted next time. It is unlikely that when Professor Richardson's term of office has expired, the architectural room will be allowed to burst its seams—as it has done this year. The profession's only hope of filling two galleries—and they could not fill more than one and a half this year, when they had the chance of more space—will be to overwhelm the hanging committee with a large choice of good designs.

No doubt some of you will still say that you'll be hanged if you'll be hung anywhere near that old reactionary you-know-

who. But have a look at this year's catalogue and you will see that you would also be in *good* company. And what about you local authority architect's departments? You have been given a lead this year by the LCC, whose Crystal Palace model is on view. It is time that you all—private and public architects—stopped laughing at the Royal Academy and helped to change its reputation—at least in one department. There is little doubt that whether you bother to join in or not, the architecture room is going to improve steadily year by year. Why not go all out next year to make the exhibition the first of a first-class series of annual displays of the best of contemporary architecture?



J. C. Pritchard, *Director and Secretary
Furniture Development Council*

C. R. Whittaker, *A.R.I.B.A.*

N. MacFadyen

J. D. Tetlow, *A.R.I.B.A.*

M. W. Savill

Don't Give All The Praise To Svenska Sløjdföreningen

SIR.—So occupied with the merits of foreign furniture is that highbrow, ASTRAGAL, that he omits to read the technical literature that is published in this country about the British Furniture Industry, and seeks only for news of furniture developments in Scandinavia. (See AJ for April 14).

Performance tests for furniture were developed in this country years before they were done in Sweden. Indeed the work on endurance tests which ASTRAGAL refers to as having been done first in Sweden is based on the research work carried out by the Research Department of the Furniture Development Council. The particular endurance tests mentioned were a direct result of a visit paid to our research laboratory in October, 1953, when a member of the staff of the Svenska Sløjdföreningen spent some time studying with our research workers.

If ASTRAGAL will get copies of the Domestic Furniture Standards in the BSI series he will find in them technical information about these tests that we have developed, which are now incorporated in the Standard Specifications.

ASTRAGAL somewhat scathingly asked "how many British furniture manufacturers would be prepared to risk their products and their reputation in such a manner." Had he asked BSI or someone in the industry, he would have been told that firms representing something like 50 per cent. of the production of this country have applied to BSI for licences.

London.

J. C. PRITCHARD.

Bang Goes Another Idea

SIR.—While not wishing to clutter your columns with matters rather more political than architectural, I feel I must protest at the notice of "The Bomb, Survival and You" by Severud and Merrill, in the JOURNAL for April 21.

The bland tenor of the review accepts unquestioningly that atomic warfare is now the order of the day. But the H-bomb can do 600 times "better" than those that the book discusses, and our (whose? not mine!) top strategists say they will use it first regardless of an enemy's opening moves. These Gadarene strategists know that equal retaliation is also equally possible. From this there is only one conclusion, that if there were another war, it would be announced by the explosion of a hydrogen bomb, with its inescapable and unknown train of genetic effects for those who survive.

The book is technically out-of-date, as your reviewer says, yet he applauds its "sense of realism." In fact, its head is in the sand. It would be better to deplore its implications than to summarize its contents. As architects we could ensure a widening future of creative work by taking what steps we each think best to outlaw atomic war, rather than distort our present work by trying to make our buildings proof against attacks. Such work would be stultifying, the buildings almost uninhabitable and the moral blindness, criminal. We are architects and civilized human beings. We try to make the future more attractive in our work—let no tacit acceptance of atomic warfare make that future untenable for us and our children.

London.

C. R. WHITTAKER.

Please Turn Over

SIR.—Like ASTRAGAL I was unable to attend the AA reception this year (AJ: April 21), but unlike ASTRAGAL I was privileged to see the admirable work of Miss Gibson on Byzantine mosaics, as presented to the British School.

The thesis was prepared in book form, the written matter being on the reverse of each page. Hence the lack of analytical description which so distressed ASTRAGAL's informant. I wonder if Miss Gibson was given the opportunity of helping to exhibit the thesis.

London.

N. MACFADYEN

Education: The Hard Way

SIR.—Your leading article of April 21 seems to confuse two quite separate issues, those of the articulated pupil and of the unqualified junior assistant or draughtsman.

Every practice, large or small, needs draughtsmen or unqualified assistants, and has difficulty in getting them. I doubt, however, if many architects find that articulated pupils fill this need. It is, of course, an advantage to an employer to know that the pupil will remain with him for three or five years and that he intends to study. The other side of the contract is that the employer allows time off for attendance of classes and undertakes to guide and direct the pupil's studies. The extent to which he does guide is admittedly a variable quantity. But the net value of the pupil to the practice for at least eighteen months is very small and after that no greater than that of an unqualified assistant who lacks the educational background or the ambition necessary to qualify. In other words, if the first consideration is cheap labour, one looks for draughtsmen and refuses to take articulated pupils.

The pupilage system exists, I believe, mainly because there are still parents who are unable or unwilling to face the cost of a five-year course. It is not as easy as you suggest to obtain grants for full-time study.

Your remark that the articulated pupil is "saved the mental strain of full-time study" is surely indefensible. Anyone who has experience of both methods will, I am certain, agree that the full-time school course is by far the easier as well as the more satisfactory way to become an architect. One has to work quite hard, but in the right atmosphere, and there is at least time for recreation and the development of wider interests. The pupil, working for five days in his office and studying on the sixth and in the evenings does it the hard way!

Staffs.

J. D. TETLOW.

... Is Not The Casual Way

SIR.—On reading your article on Education in the JOURNAL for April 21, I was surprised to find on turning over a page of sensible statements, and a record of praiseworthy efforts of certain counties to benefit the articulated pupil, such a phrase as "Should this loose and casual method . . . continue?"

An articulated pupil receives instruction by day at the office in which he is employed (thus gaining valuable practical experience which the University student does not get until after qualifying) and during the evenings and weekends supplements this knowledge with additional tuition through the post, and at evening classes if possible.

Before he is allowed to take the intermediate examination he has to pass the appropriate sets of testimonies of study as laid down by the RIBA. To do this may take three, four, or even five years of hard work, during which much, if not all, his spare time is devoted to study, whilst during the day he is being schooled in the general work carried out in an architect's office.

When his testimonies have been approved, the articulated pupil is eligible to take the intermediate examination set by the RIBA. The RIBA are the governing architectural body in this country and it is, I believe, one of their duties to protect the status of the architectural profession, and to ensure that only those persons who possess architectural capabilities sufficient to satisfy their examiners are allowed to enter the profession.

Therefore, with these facts in mind, if an articulated pupil studies for any length of time, and by any source convenient to him, and satisfies the requirements of the RIBA, how can his entry into the profession possibly be described as "loose and casual"?

M. W. SAVILL.

Essex.



AA

New President

Bryan Westwood is to be president of the AA for its 109th session, beginning on June 1. Mr. Westwood, who was born in 1909, was educated at Hall School, Weybridge, Sidcot School, Somerset, and the AA School (1927-1932). He was an assistant with Searle & Searle before he joined his father's firm. In 1935 he became a partner in P. J. Westwood & Sons.

Mr. Westwood has worked mainly on shop designs and houses. He won, with Edmund Ward, a competition for Godalming Town Hall and Civic Centre and, with his brother, a competition for a new front to the Building Centre in Bond Street. He has written articles and a book on shops for the Architectural Press. In the war he joined the RNVR, served in Atlantic escorts for one year, went for a time to HM Signal School, and was later with the RAF (photographic interpretation) as head of Naval Technical Section.

He has served for the past two years as AA representative on the RIBA Council, and both before and after the war on the AA Council and the Registration Councils. His hobbies are photography and sailing.

COID

Showroom for Britain

Britain is to have a permanent exhibition in London, where well-designed products from many British industries will be displayed as a stimulus to her home and export trade. The COID is to have a Design Centre for British Industries at 28, Haymarket, S.W.1. Arrangements are being made to open the Centre as a permanent-but-changing exhibition early in 1956. The Design Centre will show a wide range of products, selected by the COID for their high standard of design.

Exhibits will mainly be durable consumer goods of various price levels, such as textiles, furniture, carpets, pottery, glass, cutlery, kitchen equipment, hardware, travel and sports goods, office machinery, lighting and heating appliances, outdoor furniture, garden tools, etc.

SALTIRE SOCIETY

Award for Housing

The Saltire Society, which for nearly twenty years has sponsored annual awards for the design of local authority housing in Scotland, is now to make awards for the

layout and design of groups of speculative housing. The society is doing this in the hope of improving the standard of commercially sponsored housing, some of which—it notes with horror in a press hand-out—is as badly designed as similar pre-war housing.

Illustrated scrolls will be given to winning contractors and designers, and a plaque will be placed on one of the houses in each successful scheme.

IUA

Congress in Holland

The main theme of the fourth IUA Congress, which will be held at The Hague from July 11 to 16, will be "Housing From 1945 to 1955." Peter Shephard, G. Anthony Atkinson and Gontran Goulden have been nominated to attend the sessions on housing as representatives of the United Kingdom. Anthony Chitty will be chairman at working sessions on "Equipment."

The United Kingdom will be represented at sessions on "Architectural Education" by Professor R. J. Gardner-Medwin, and at sessions on "The Place of the Architect in the Community" by J. M. Austin-Smith.

Sir Patrick Abercrombie will attend the congress as Président d'Honneur of the IUA, and Professor Robert Matthew will be there as the United Kingdom's representative on the IUA executive committee.

RESEARCH

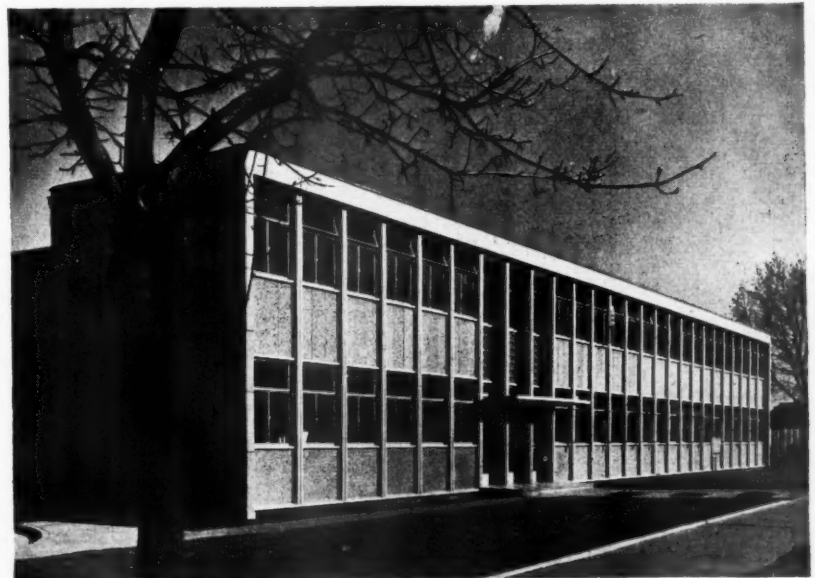
A New Centre

Organization is more difficult in the building industry than in any other industry. That is why the architect is not an integral part of the building team.

That is what the Minister of Works, Nigel Birch, told guests at the opening of John Laing's new Research and Development Centre, at Boreham Wood, Herts., last week.

The Centre will be used for the sort of research which the firm has been doing for many years—research which includes, apart from routine testing, investigation into the uses both of pulverized fuel ash and of mechanical equipment.

A photograph of the building appears below.



Research Centre, Boreham Wood. Architects: S. Greenwood and H. N. Michell.

PRIVATE SOCIETIES

The RIBA Speaks

The RIBA secretary, C. D. Spragg, has warned members of the danger of their profession being weakened in the eyes of the nation.

He has given this warning in a letter sent to members of the Institute, on behalf of his Council: a letter which frowns on the recent formation of societies of private practising architects in London, the Midlands, and the west of England.

Members are told in this letter that the Council does not disapprove of their discussing individual interests, but that such interests should be discussed "within the existing framework of the RIBA and its Allied Societies."

"Different points of view," says Mr. Spragg, "should be discussed and resolved within the body of the profession."

"Adequate machinery," he adds, "is available through the committees of the Royal Institute and the Allied Societies' Conference."

In addition to advising members to carry out discussions with adequate machinery through the committees within the framework of the RIBA and the body of the profession, Mr. Spragg has asked them to "very seriously consider the inadvisability of bodies outside the framework of the Royal Institute." The prestige and influence of the profession can only be maintained with central and local government and other authorities, he writes, if the profession remains completely united and allows no conflict or internal division of opinion to appear publicly.

DIARY

Visit to Prendergast Secondary School. Leave the AA, 34, Bedford Square, W.C.1, by coach at 9.30 a.m. Tickets 4s. each.

MAY 7

Stone in Architecture. Two Cantor Lectures to be delivered by R. J. Schaffer and W. F. Haskop. May 9: *The Weathering, Preservation and Restoration of Stone Buildings*. May 16: *The Stonemason's Craft*. At the RSA, John Adam Street, W.C.2. 6 p.m.

ARCHITECTURE AT THE ROYAL ACADEMY: FLATS . . .

By a paradoxical coincidence this year's show at the Royal Academy, now presided over by that voluble anti-contemporary architect, Professor A. E. Richardson, contains many more good contemporary designs than usual. Some are included here. Elsewhere the Editors ask readers to go all out to make the Academy's architectural exhibition a worthwhile annual event.



Top left: Flats at Hove, Sussex. By Eric Lyons. Drawn by E. J. Thring. Top right: Metropolitan Police Housing, Ladbroke Road, Kensington. By J. Innes Elliott. Drawn by Ceri Griffiths. Above left: City of Birmingham: police station and flats, Bradford Street. By A. G. Sheppard Fidler. Drawn by D. Jackson. Above right: "High flats in twin towers." By J. H. Forshaw, M. B. Blackshaw and A. A. Bellamy. Drawn by A. A.

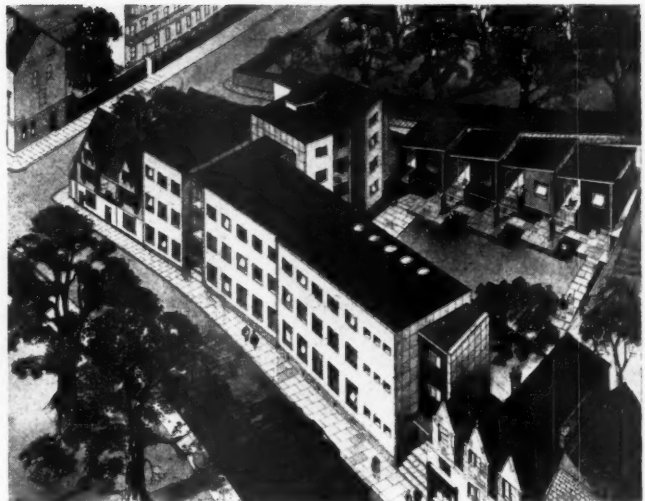
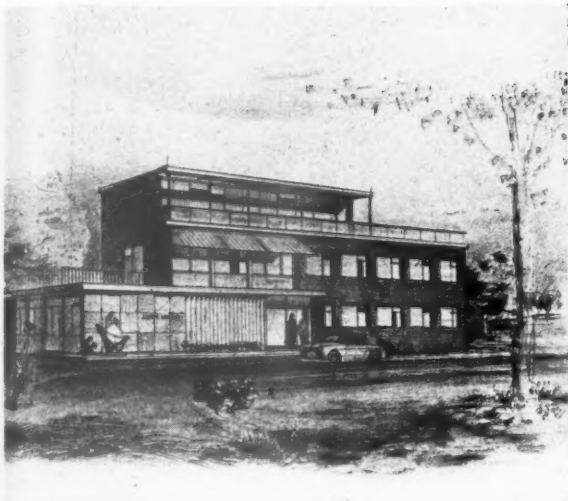
Bellamy. Below left: Bungalow at Corbiere, Jersey, Channel Islands. By Walter H. Marmorek. Drawn by Lionel Weanor. Below right: Flats at West Hill, Highgate. By Eric Lyons. Drawn by John Barton. Bottom left: Leigham Court Road housing, S.W.16. By William F. Howard. Drawn by F. A. Evans. Bottom right: Metropolitan police housing, Barking. By Charles R. Fowkes. Drawn by S. Kuczmarczyk.



Left:
Drawn

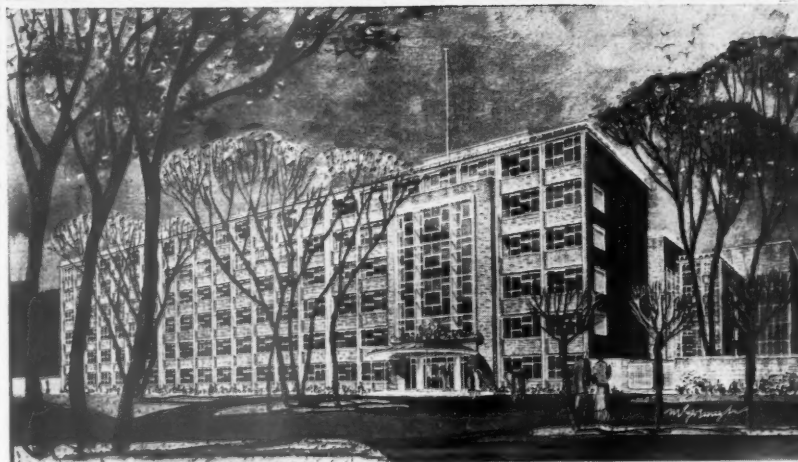
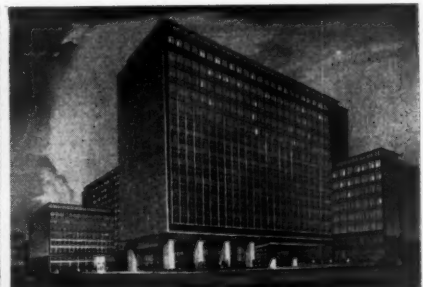
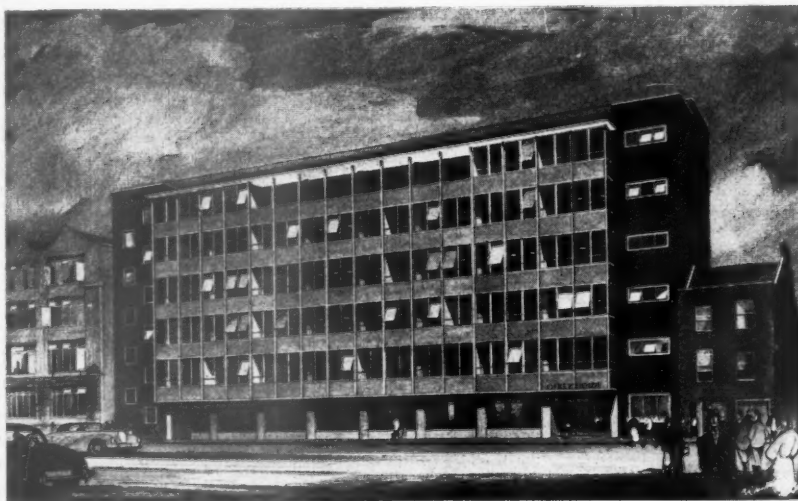
Top
D.
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by
G.

... AND OFFICES



Left: Administration Building, Crawley, Sussex. By Edward D. Mills, Drawn by G. C. Bodgener. Right: Offices and flats for St. John's College,

24-29 St. Giles, Oxford. By Lionel Brett. Drawn by Newton Watson.



Top left: Ofrex House. By Wornum and Playne (in collaboration with D. & J. D. Wood). Drawn by B. R. Williams. Above left: State House, London, W.C.1. By Trehearne & Norman, Preston & Partners. Drawn by E. J. Thring. Top right: Proposed office block, London. By Horace G. Huckle. Drawn by Frank A. Weemys. Centre right: New Office

building for United Kingdom Atomic Energy Authority Industrial Group, at Risley. By T. L. Viney and R. S. Brocklesby. Drawn by R. Myerscough Walker. Above right: New Colonial Office, Westminster. By Sir John Burnet, Tait & Partners. Drawn by E. J. Thring.

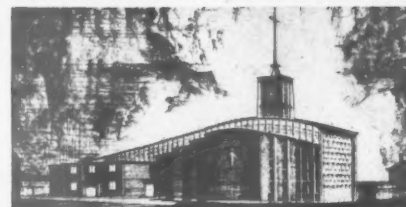
ARCHITECTURE AT THE ROYAL ACADEMY

OFFICES (continued)

Clements House, London, E.C.2. By Trehearne & Norman, Preston & Partners. Drawn by E. J. Thring.



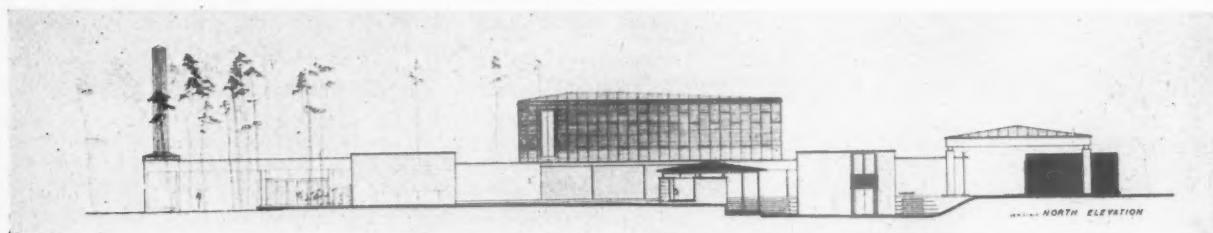
CHURCHES

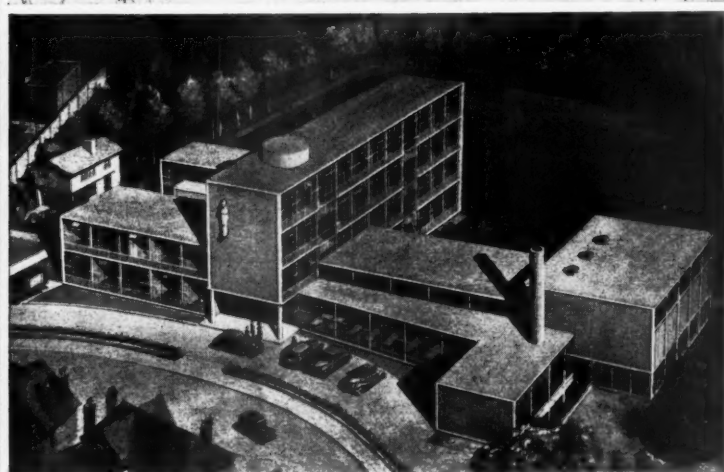


Left: Punshon memorial Methodist church, Bournemouth. By Ronald H. Sims and Patrick J. Coles. Drawn by Ronald Sims. Top right: Proposed new Presbyterian church of St. Columba, Poplar. By Felix Goldsmith. Drawn by T. A. Greeves. Centre right: Church at Crawley New Town.

By Braddock & Martin-Smith. Drawn by D. F. Martin-Smith. Above right: St. Andrew's Church and Parish Centre, Roxbourne, Harrow. By M. A. J. Farey and J. J. Adams. Drawn by Cyril Farey.

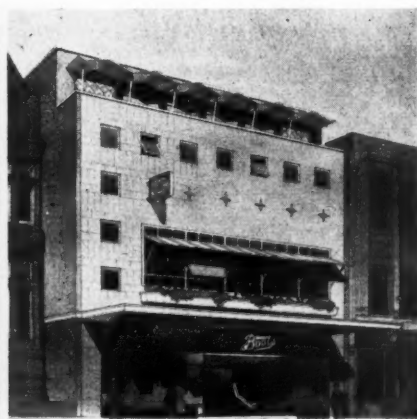
MISCELLANEOUS BUILDINGS



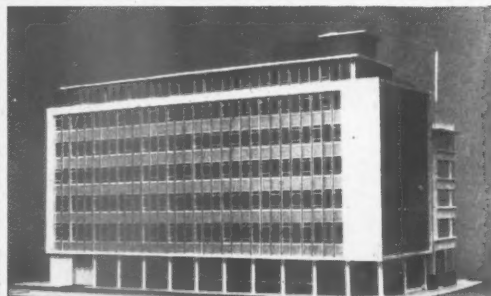
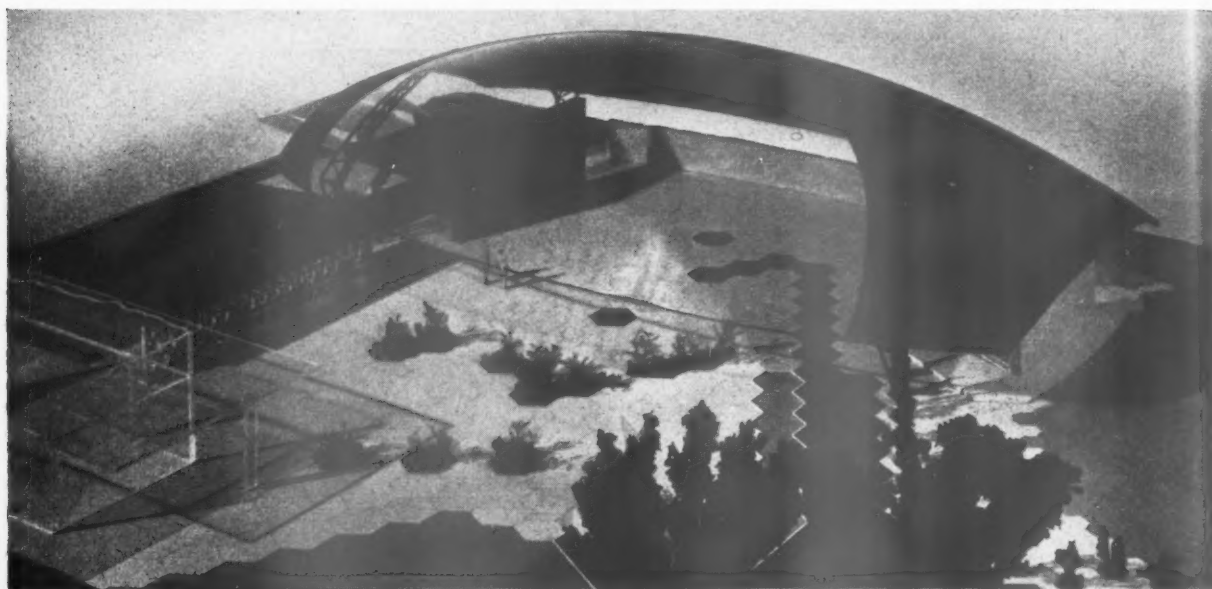


Opposite page, bottom: Design for Crematorium at Kirkcaldy by Neville Conder. Top left: Preliminary scheme for proposed government buildings at Kingston, Jamaica. By Graham Dawbarn (Norman & Dawbarn). Drawn by J. D. M. Harvey. Top right: Proposed development of the Sidgwick Avenue site, Cambridge. By Sir Hugh Casson and Neville Conder. Drawn by Sir Hugh Casson. Centre left: Roderic Hill Building; Imperial College of Science and Technology. By Graham Dawbarn (Norman & Dawbarn). Drawn by Frank A. Weemys. Above right: Convent

School extension, Abbey Wood. By Archard and Hardy. Drawn by J. D. M. Harvey. Above left: Secondary Modern School, Downham. By Archard and Hardy. Drawn by Norman Howard. Below left: Castle Donington Power Station, for the British Electricity Authority. By Clifford Tee & Gale. Drawn by Frank Weemys. Below right: Shop premises, Market Square, Hanley. By Colin St. C. Oakes. Drawn by Frank Hoar.

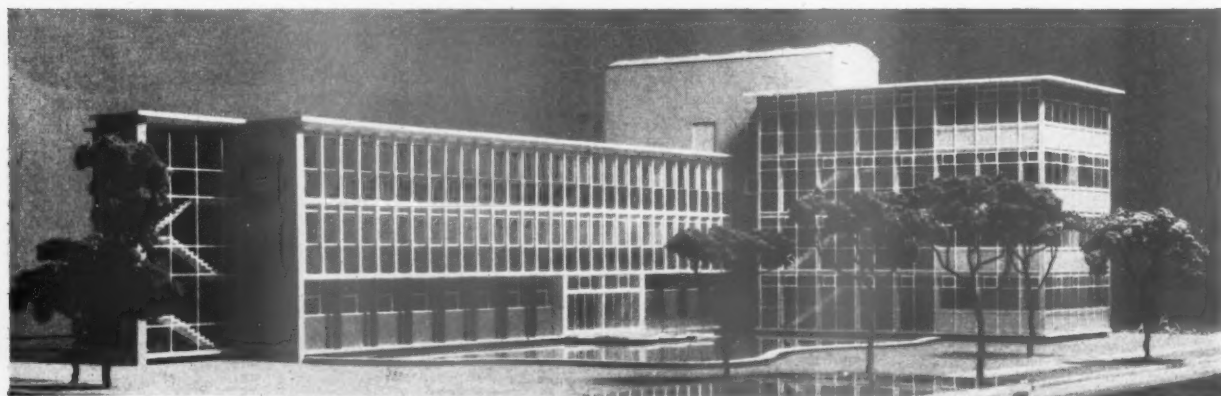


ARCHITECTURE AT THE ROYAL ACADEMY: MODELS



Extreme top: Assembly Hall, Engineering College, Rangoon University. By Raglan Squire and Partners. Top left: College of Further Education, Harrow, Middlesex. By C. G. Stillman. Top right: Office Building at 24, Chiswell Street, London, E.C.1. By Cecil C. Handisyde. Above left:

Harlow Police Station and courts. By Frederick Gibberd. Above right: New Pavilion, East Molesey Cricket Club. By Basil Ward. Below: Sylvania-Thorn Colour Television Laboratories, Enfield. By Geoffrey A. Jellicoe.



The Architects' Journal for May 5, 1965 1603

POLICE HEADQUARTERS

in TALBOT ROAD, STRETFORD, MANCHESTER

designed by G. NOEL HILL, County Architect,

F. A. HEWITT, assistant county architect, E. P. HAINS, principal assistant architect

W. CLAYTON, assistant architect-in-charge

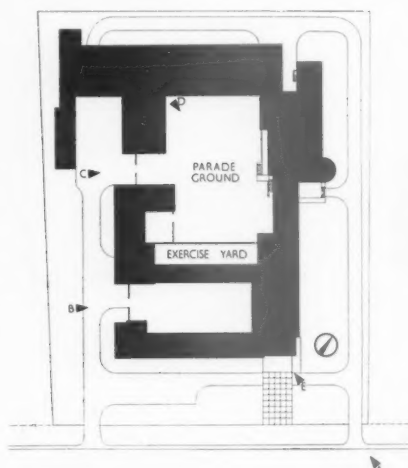
S. BOYD, chief engineer, Lancashire County Council

H. WILD, chief quantity surveyor, Lancashire County Council

This police headquarters, which is the first to be built by the Lancashire County Council since the war, serves the largest police division in the country. It was designed before the Home Office published its "Memorandum on the Design and Construction of Police Stations" (HMSO 1s. 6d.), in which smaller rooms were recommended. When the building was put up the Home Office insisted on the provision of some protection against blast, and this accounts for the construction of steel framework within a 14½-in. cavity wall. The general contractors were E. E. Coleman Ltd. For sub-contractors see p. 624

The approach to the building from the south. (Viewpoint A on key plan)





Key plan showing photographic viewpoints

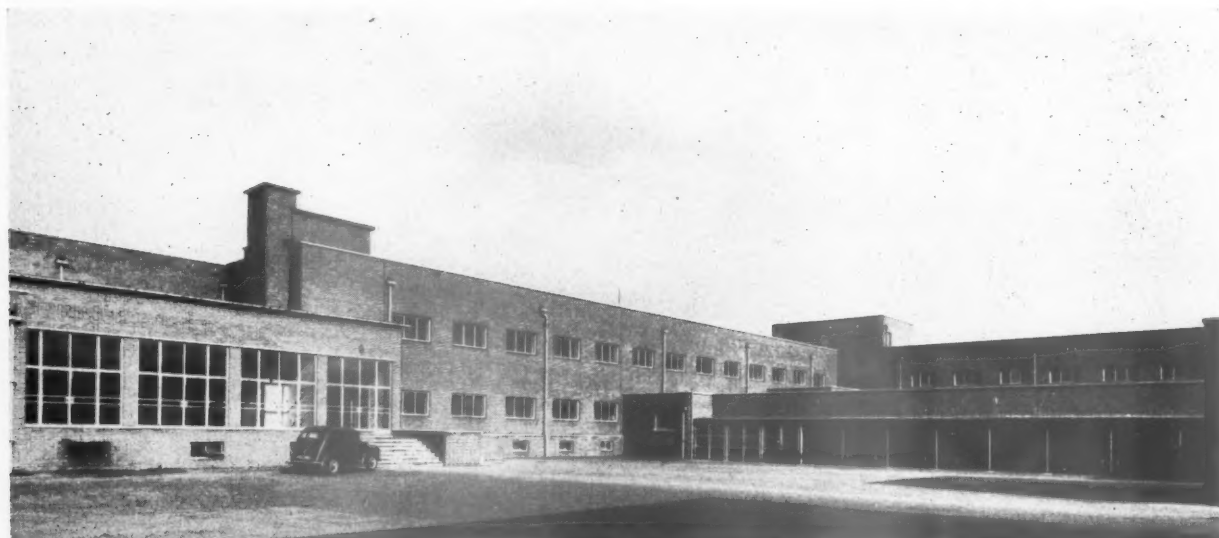


Viewpoint B: Entrance to one of the two courtyards on the west side of the building. After prisoners have been brought into the yard by van they enter the building by the door seen beyond the opening in the brick wall. In the left foreground of this photograph is the entrance to the Weights and Measures Dept. something that is not necessarily found at a police station.

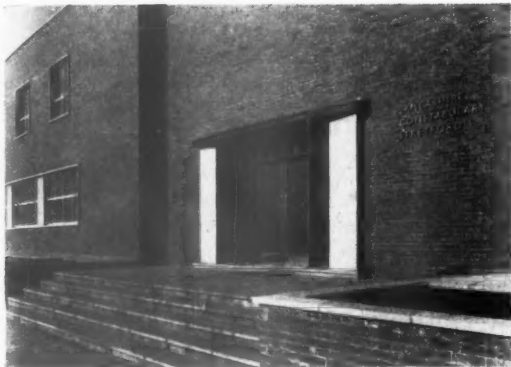


The entrance to the second and larger courtyard (viewpoint C) on the west side of the building—used as a parade ground. On the left are the workshops of the motor transport section. There is accommodation for fifty cars. The maintenance of vehicles from two other divisions is carried out in the workshops. On the right are the stalls for six horses (and an isolation box) of the mounted section.

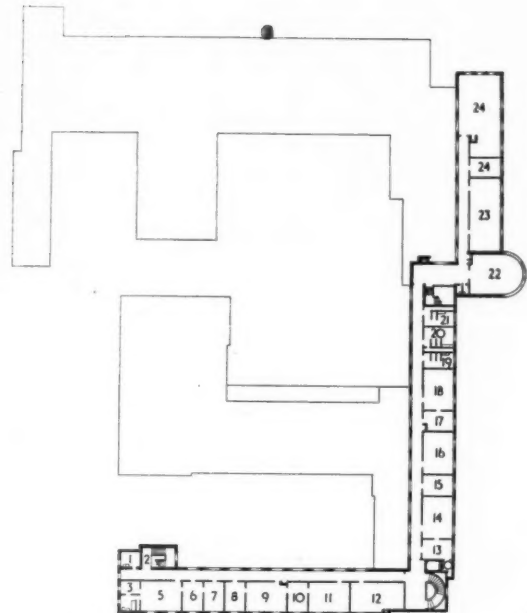
POLICE HEADQUARTERS AT MANCHESTER



Above: the parade ground (viewpoint D): on the left are the windows of the parade room; the other windows give light to circulation corridors. Beyond the covered bicycle storage space is the exercise yard for the cell block. The cells are lit through glass lens on to this yard, which is entirely enclosed by the high walls of the surrounding buildings and by a wall separating it from the general parade ground. A few windows to upper floor corridors which are used solely by police look down into the yard (the public is not allowed to have viewing access to the yard).



The main public entrance (viewpoint E) facing south on to Talbot Road. The double doors of polished mahogany are glazed with $\frac{1}{4}$ -in. armourplate glass. The screen is glazed throughout with armourplate in frames of mahogany and oak; the two projecting jambs are faced with cream quartzite tiles. The top fascia board is of mahogany, with flashing in 24 gauge copper.



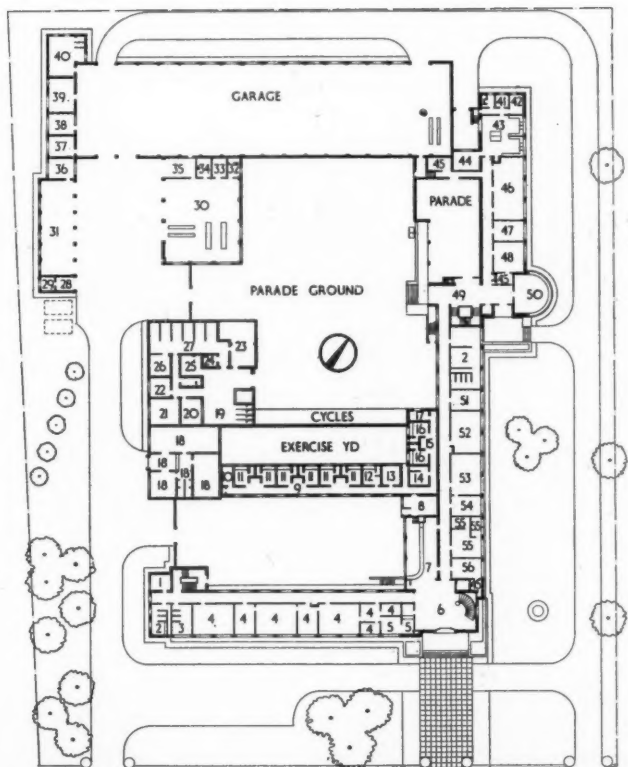
First floor plan

- KEY:**
- Basement
 - 1. Cleaner
 - 2. Male lavatory
 - 3. Female lavatory
 - 4. Photographic section
 - 5. Scientific study
 - 6. Found property
 - 7. Storage
 - 8. Telephones
 - 9. Area for bunks
 - 10. Drying
 - 11. Changing
 - 12. Showers
 - 13. Muster
 - 14. Ash hoist
 - 15. Engineers' workshop
 - 16. Emergency lighting
 - 17. Heating
 - 18. Fuel
 - Ground Floor
 - 1. Cleaners
 - 2. Male lavatory
 - 3. Female lavatory
 - 4. C.I.D.
 - 5. Aliens
 - 6. Main entrance
 - 22. Day room
 - 23. Fodder
 - 24. Tools
 - 25. Isolation box
 - 26. Loose box
 - 27. Stalls
 - 28. Pumps
 - 29. Oil
 - 30. Workshop
 - 31. Car wash
 - 32. Lockers
 - 33. Batteries
 - 34. Road signs and lamps
 - 35. Paint
 - 36. Wireless engineers
 - 37. Inspector
 - 38. Sergeant
 - 39. Reports
 - 40. Lockers
 - 41. Dry store
 - 42. Veg. store
 - 43. Kitchen
 - 44. Staff room
 - 45. Stores
 - 46. Constables' mess.
 - 47. Officers' mess.
 - 48. Special constables
 - 49. Police entrance

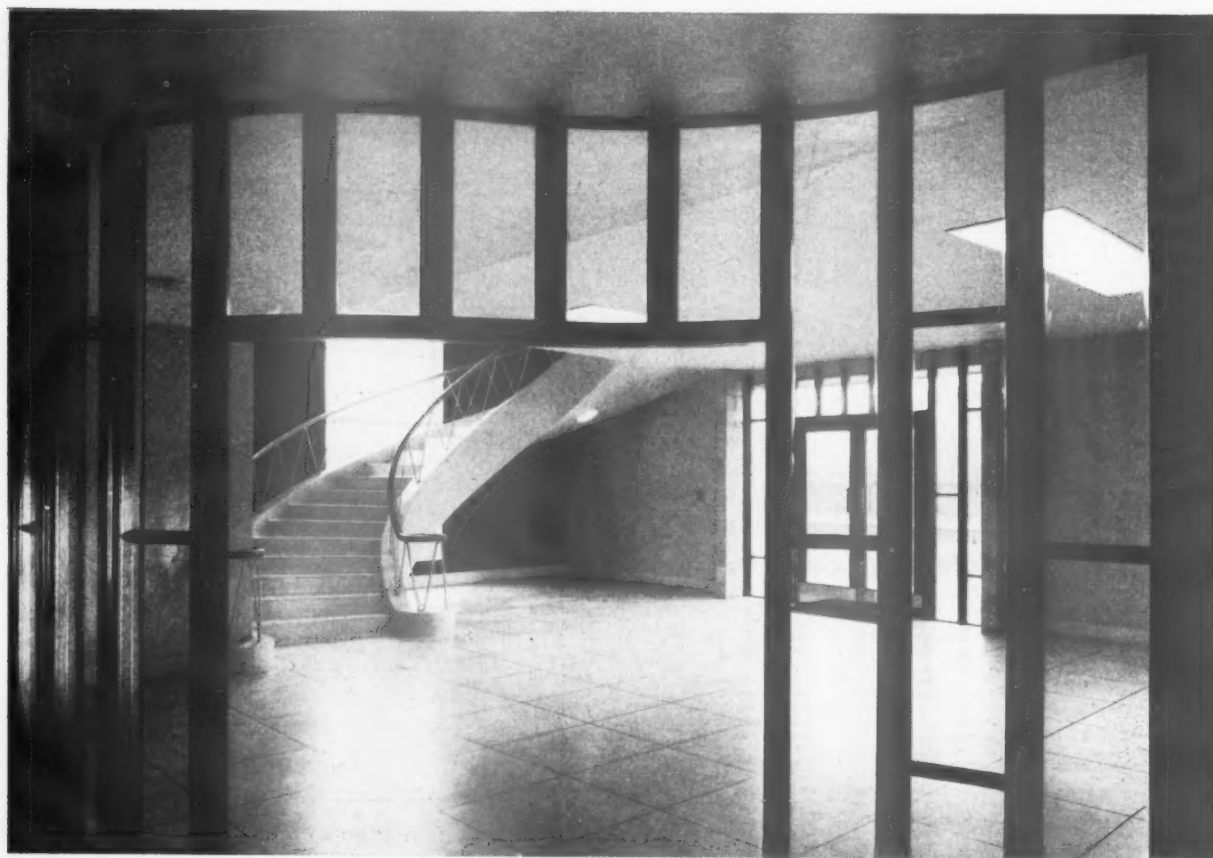


Basement plan

- 7. Enquiry
- 8. Charge office
- 9. Male cell corridor
- 10. Male prisoners bath room
- 11. Male cells
- 12. Surgeon
- 13. Prisoners' property
- 14. Matron
- 15. Female cell corridor
- 16. Female cells
- 17. Female prisoners bath room
- 18. Weights and measures
- 19. Kennels
- 20. Office
- 21. Saddle room
- 50. Lockers
- 51. Found property
- 52. Constables' reports
- 53. Sectional sergeants
- 54. Sub-divisional Insp.
- 55. Communications
- 56. Interviews
- First Floor
 - 1. Cleaners
 - 2. C.I.D. entrance
 - 3. Bedroom
 - 4. Bath
 - 5. Chief Superintendent
 - 6. Secretary
 - 7. Div. Superintendent
 - 8. Chief clerk
 - 9. Div. office
 - 10. Filing
 - 11. Accounts
 - 12. Map room
 - 13. Woman police Inspector
 - 14. Women police
 - 15. C.D. Inspector
 - 16. Training and accident prevention
 - 17. Special constables' Commandant
 - 18. Special constables
 - 19. Female lavatory
 - 20. Male lavatory
 - 21. Officers' lavatory
 - 22. Library
 - 23. Lecture room
 - 24. Recreation



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



Opposite page, top :

The enquiries desk is separated from the main hall by a mahogany glazed screen. The CID offices are behind the glazed doors on the left; the sub-divisional offices are behind the doors on the right. The architects tried to create a friendly and "open" feeling here—so that people making enquiries should not be discouraged. The relationship between this enquiry space and the charge room and cell block is important. Visitors must be able to pass quickly from the enquiry desk into the cell block, while the prisoners arriving and entering the charge room must be shielded from the public view.

Opposite page, below: The enquiries room, looking back towards the main entrance doors and the semi-circular reinforced-concrete staircase. The construction, shown clearly in the progress photographs above, is of two reinforced-concrete strings 2 ft. 3 in. deep, with two beams per flight spanning to stanchions on either side of the floor-to-ceiling windows. Ceilings and walls are of painted plaster; floors and coved skirtings are of terrazzo.



POLICE HEADQUARTERS AT MANCHESTER

The main parade room for the local Stretford police force. Essential requirements were easy access from outside through constables' entrance, direct access to the adjoining parade ground, ample space for notices and a hard-wearing wood block floor.



This recreation room on the first floor accommodates a billiard table, a table-tennis table and a dart board. The radiators seen on the side wall are part of the low-pressure hot water system, run by automatically stoked boilers. The building is divided into four separate zones in each of which the heating is thermostatically controlled from a board in the telephone exchange.





Main day meals are served from this kitchen to a varying number of staff in the building. Seen through the open service hatch is the constables' mess. There is a separate mess beyond for officers and another for special constables. A service lift supplies the recreation room immediately above. On the right is a doorway to the staff sitting room. The floor is covered with quarry tiles. Walls and ceilings are of painted plaster, with tiles to a height of 4 ft. 6 in.

POLICE HEADQUARTERS AT MANCHESTER



Above: the Weights and Measures department. There is no link between this department and the divisional offices. Walls are of fair-faced brickwork, painted. The floor has a granolithic finish.

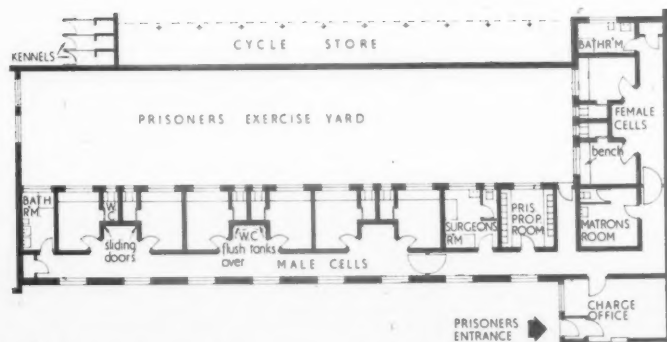
Left: the photographic section in the basement consists of an office, a studio and three dark-rooms, one of which is shown here. This section is greatly used, as all prisoners and scenes of crime are photographed before any investigations take place.

The cells, right, which are approached directly from the charge room, are planned so that there is no point where male and female prisoners can meet. All cells, which are lit by double lens set into a reinforced concrete frame on to the exercise yard, are artificially ventilated. Each cell (65 sq. ft. in area) has its own WC leading off it, as shown below. Heating is provided from hot pipes under the bench, which is of teak tongued and grooved boards.





WC flushing and the opening and closing of the WC door in each cell are controlled by the warders in the passage outside. Cells are lined with faience. They have granolithic flooring. The steel door to the cell, which opens inwards, has an inspection hole and a service flap through which food is passed. It is splayed to make it easier for stretchers to be taken into the cell.



Detailed plan of ground floor cell block [Scale: $\frac{1}{4}$ " = 1' 0"]

CLIENT'S BRIEF: his stated requirements

A building to provide accommodation for the Manchester Divisional, Stretford Sub-Divisional and CID Staffs, with Transport Section, Moun-

ted Section and Weights and Measures Staff. The plans were prepared before the Home Office Memorandum on Standards of Accommodation

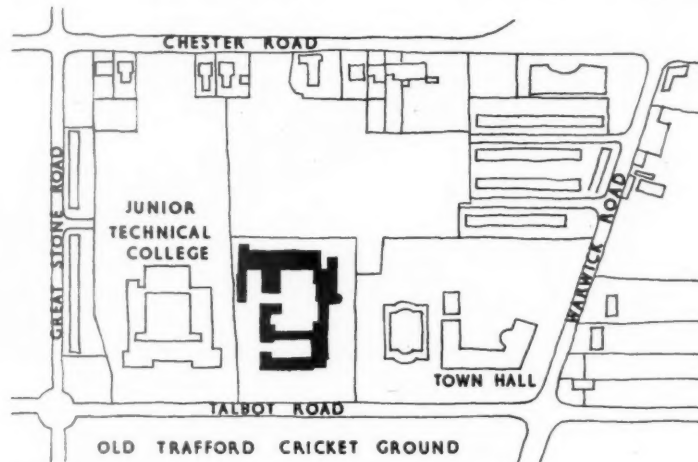
was published.

SITE: topography, surroundings, access and planting

The 31-acre site is practically level with a south frontage to Talbot Road and overlooking Old

Trafford Cricket Ground. On the east boundary are the formal gardens of Stretford Town Hall

and on the west is the Stretford Junior Technical College. To the north is an area of open ground scheduled by the town planning authority for further development as a civic centre. Tree planting is intended in grassed borders along the south and west boundaries.



Site plan

PLAN: general appreciation

The plan shape is a logical development of the requirements within the pattern of the town planning proposals. The various sections are linked to each other. The reverse E shape of the plan presents an unbroken facade to the east and to Talbot Road on the south, leaving a proposed

building to complete the recessed square of the existing civic gardens.

The CID and Divisional Offices are on the ground and first floors of the south wing; the sub-divisional offices are in the southern half of the east wing; kitchen and dining rooms, with

recreational rooms over, and in the northern half; the single-storey cells form the middle horizontal of the "E" and the transport section the top horizontal. A basement floor extends the full length of the south and east wings.

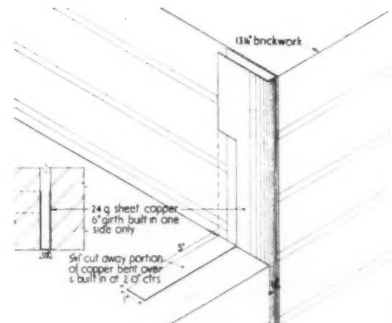
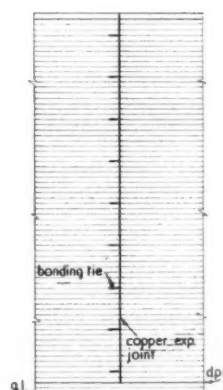
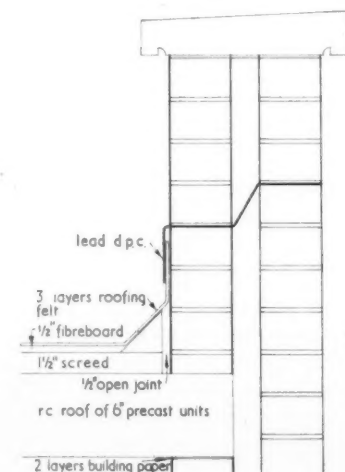
MAIN CONSTRUCTION

LOADBEARING ELEMENT: a. Steel frame. b. Brick piers and steel plate girders. c. Load-bearing brickwork. Location: a. South and east wings. b. Garage and workshops. c. Elsewhere.

Beam spans: a. 25 ft. b. 52 ft. Column grid: a. 25 ft. x 12 ft.

FOUNDATION TYPE: a. Massed concrete bases.

b. Strip foundations. Location: a. Under stair-chairs. b. Single-storey structure. Sub-soil: a. Boulder clay. b. Gravel. Depth: a. 10 ft. to 20 ft. b. 3 ft. average.

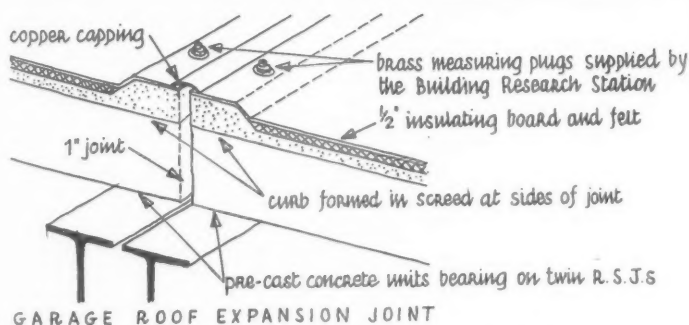


Left: expansion joint.
Above: " "
Right: " "

Section at gable wall [Scale: 1" = 1' 0"]
Part elevation garage wall [Scale: 1/4" = 1' 0"]
Plan and projection garage wall external joint [Scale: 1 1/4" = 1' 0"]



Above: This is a typical detail of one of the expansion joints at the junction with the stub stanchion bases. When this building was designed the Home Office considered that a steel frame building, with brick cladding, gave the required standard of protection against blast and as there has always been a possibility that an additional storey would be built on top of the divisional offices and the wing running at right angles, so that the stanchion bases have been formed at roof level to make extension easier. There are ten roof expansion joints, thirteen roof sliding-joints and twenty-two vertical expansion joints.



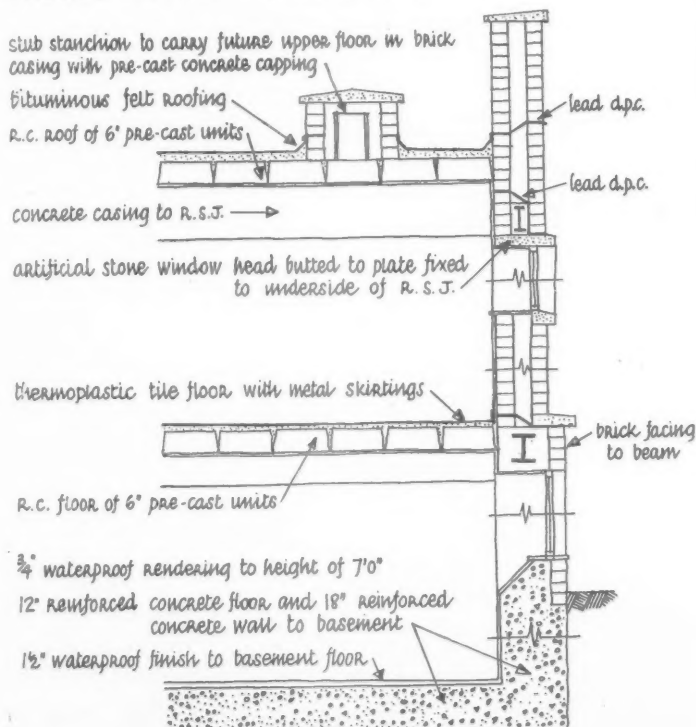
OUTER WALL TYPE: a. 14½-in. cavity brickwork (5½-in. cavity). b. 13½-in. solid brickwork. c. 11-in. cavity brickwork. Location: a. South and east wings. b. Cell block. c. Elsewhere. Finish: a, b, c. Accrington facings.

ROOF TYPE: Flat. Location: Throughout. Material: Precast concrete beams. Finish: 3-layer roofing felt.

FLOOR STRUCTURE TYPE: a. Precast concrete beams to all suspended floors. b. Solid concrete to single storey blocks. Location: a. South and east wings offices and corridors. Entrance halls, staircases, lavatories. Parade room. b. Offices, Cells and garage, etc. Finish: a. Thermoplastic. Terrazzo. Wood block. b. Thermoplastic. Granolithic concrete.

INTERNAL WALL TYPE: a. Partition walls. b. Partition walls. c. Partition walls. d. Inner leaf outer wall. Location: a. South and east wings. b. Elsewhere. c. Cells. d. Garage and workshops. Material: a. 3-in. woodwool. b. Brick. c. 9-in. brick. d. 4½-in. sandlime brick. Finish: a. Plasterboard painted. b. Plasterboard painted. c. Faience lining. d. Plain brickwork.

CEILING TYPES: a. Soffit of precast beams. b. Ribbed metal lathing. Location: a. Generally. Garage and workshops. b. Cell corridors. Material: a. Plasterboard. Fair-faced beams. b. Plasterboard. Finish: a. Painted. Stone paint. b. Painted.



Details of expansion joints

ARTIFICIAL LIGHTING

SOURCE AND FITTING TYPE: *a.* Tungsten: opal glass pendant (acort). *b.* Tungsten and fluorescent; recessed with glass diffuser and louvred fluorescent. *c.* Tungsten: metal reflector (RLM). *d.* Tungsten: ceiling fitting (saucer). *e.* Tungsten: recessed with diffusing glass. *f.* Emergency lighting battery; in general fittings. **Location:** *a.* Offices. *b.* Main hall. *c.* Garages. *d.* Corridors. *e.* Cells. *f.* Various electrical points. **Illumination level:** *a.* 12 lumens. *b.* 11 lumens. *c.* 5 lumens. *d.* 3/5 lumens. **Quality:** *a, b.* Diffused. *c.* Direct. *d, e, f.* Diffused.

WIRING AND SWITCHING TYPES: *a.* Con-

cealed HGSW galvanized conduit. *b.* Surface galvanized conduit. **Location:** *a.* Main building. *b.* Garages. **Reasons and comments:** *a.* Main conduit runs concealed in service ducts formed for the purpose, others in *in-situ* concrete and plaster. *b.* Unplastered wall. All switches fitted with metal plates, BMA in main building; galvanized in garage. Emergency lighting: battery and control panel with rectifier, change-over switch, etc., to operate immediately on a mains failure or on failure of any phase of the supply, this being 3-phase 415/240 volt. Battery consists of 120 lead acid sealed glass cells, fully charged, having a capacity of 240 amp. hours

when discharged in 10 hours.

POWER SUPPLY TYPE: 3 phase and neutral MV supply to a totally-enclosed iron-clad industrial type air break switch-gear. **How distributed:** Paper-insulated, lead-covered, steel-wire armoured-cables from main panel to section boards: thence by conduit to final sub-circuits. **Comments:** Power in garage, sockets for portable equipment fed at 110 volts from 240/110 volts transformer double wound with secondary winding centre tapped and earthed.

NATURAL LIGHTING

WALL GLAZING: *a.* Metal casements. *b.* Glass lenses in concrete frame. **Location:** *a.* Generally. *b.* Cell blocks.

ROOF GLAZING TYPE: *a.* Metal framed lantern lights. *b.* Reinforced-concrete lanterns with glass lenses. *c.* Saucer domes. **Location:** *a.* Police

entrance stairs. *b.* Garage, workshops, stables. *c.* Weights and Measures block.

HEATING AND VENTILATION: artificial and natural

HEAT EXCHANGER TYPE: Low-pressure central heating system. **Location:** Boiler house. **Reason:** To meet Home Office requirements.

BOILER TYPE AND CAPACITY: No. 2 6RS, 8 Sectional Boilers, 1,292,000 BTUs/hour each. **Heat load:** Total 2,584,000 BTUs/hour. **Fuel type:** Coal. **Stoking method:** Automatic under-feed stokers. **Reason for choice:** Most economical. The heating installation is fully automatic with zone control. The installation is split up into

4 zones which can be in operation at different times.

WATER HEATER TYPE: No. 25 K, sectional boiler. **Location:** Boiler house. **Fuel type:** Coke. **Stoking method:** Hand fired. **Reason for choice:** Most suitable for this installation.

HOT WATER STORAGE TYPE: Indirect cylinder. **Location:** Boiler house. **Materials:** Copper. **Capacity:** 200 gallons.

PIPES AND JOINTING TYPES: Heating, screwed and socketed steel tube. HWS copper tube capillary fittings.

COLD WATER STORAGE: HWS tanks. Cold water—mains supply. **Location:** Tank room over boiler house. **Materials:** Galvanized steel. **Capacity:** 250 gallons.

SOIL WASTE

TYPE OF SYSTEM: Combined system to main sewer. **Location:** General. **Materials:** First quality SG stoneware. CI under buildings.

RAINWATER DISPOSAL TYPE: Roof outlets to

RW heads. **Location:** General. **Materials:** CI pipes.

LIFTS TYPE: Lift well provided, lift to be installed should second floor extension be neces-

sary. **Relation to traffic circulation:** Junction of south and east wing corridors off main entrance hall.

FIRE

STRUCTURAL PRECAUTIONS: Maximum use of incombustible materials and 2-in. concrete casing to steelwork. **Grade of protection:** 2 hours. **Apparatus sprinklers, etc.:** Corridor hose reels

and hand extinguishers.

PLANNING PRECAUTIONS: ACCESS FOR FIGHTING: Three staircases and additional

access from main building on to single-storey flat roofs.

COLOUR

PAINT TYPES: *a.* Emulsion paint. *b.* Gloss paint. *c.* Stain polish. **Where used:** *a.* Walls and ceilings offices generally. *b.* Windows and architraves. *c.* Doors, counters, library fittings, etc.

COLOUR TREATMENTS: Generally light reflecting colours uniformly used except where necessary to emphasise a change of use, e.g., offices, circulation, recreation, dining room.

Wallpapers in strong contrast used for "stopping" corridors and in the main entrance hall to give emphasis to staircase and balustrade.

TIME SCHEDULE

Drawings: Final working drawings, March 1950-March 1951.

Contract signed: March, 1951. **Work commenced:**

March, 1951. **Work completed:** July, 1954. **Type of contract:** Bill of Quantities.

COST ANALYSIS

		ELEMENT	Cost per sq. ft.	ELEMENT	Cost per sq. ft.
Total ground floor area of super- structure	36,624 sq. ft.				
Total floor area (excluding base- ment)	49,352 sq. ft.	Preliminaries and insurances	2 3½	Drainage	2 3½
Floor of basement	12,089 sq. ft.	Contingencies	1 8	Glazing	3½
Storey heights of basement	10 ft. 0 in.	Work below ground floor level	13 0	Decoration	1 4½
Total depth of basement—		External walls and facings	5 4	Paved areas	3 6
Below ground level generally	7 ft. 0 in.	Internal load bearing walls	5	Special sound insulation	—
In heating chamber	9 ft. 0 in.	Internal partitions	1 7	Special thermal insulation	—
		Frame	6 1½	Lifts (excluding shaft and motor room)	—
TENDER DATE		Upper floor construction and stair- case	2 3	Difference between tender cost and final cost	Not yet known
Tender cost of superstructure, installations and finishings	£159,595	Roof	4 5		
Tender cost of foundations and basement	£39,770	Rooflights	1 0		
Tender cost of external works	£9,050	Floor finishes	2 8		
Gross total cost	£208,415	Windows and doors (external)	1 6		
	s. d.	Doors (internal)	1 0		
Cost per ft. super of floor area including basement	67 10	Wall finishes	1 9		
Cost per ft. cube including basement	4 0	Built-in fittings	6		
		Ironmongery	8		
FITTINGS AND EQUIPMENT		Plumbing (external)	7½		
Kitchen equipment	7	Plumbing (internal)	9		
Garage equipment	9	Sanitary fittings	8		
Telephone equipment	1 0	Gas installation	2		
Site Development	8	Electric installation	5 2½		
		Heating installation	3 8		
		Ventilation	2		

COST ANALYSIS: comments

To illustrate the possibility of comparing different types of buildings we reprint the cost analyses of three schools previously published. The elements are grouped in a way that is usually found convenient for comparison of one building with another. It should be noted that the schools which are in general of prefabricated construction compared quite favourably with the traditionally built Police Headquarters.

With the exception of the foundation work, which is a feature on this scheme, the remainder of the structure shows little variation from average costs per square foot. The low rate for windows of the metal casement type should be noted especially in relation to the large window areas usually associated with prefabricated work. The services are relatively economical apart from the electrical installation, the cost of which

reflects the additional requirements of emergency lighting equipment needed in this type of building. Note also that the special equipment for kitchen, garages and telephone services represents 2s. 4d. per square foot. The finishing costs are slightly lower per square foot but give an indication generally of the plainer finish expected in office blocks.

	Sheffield S.M. School Tender: March, 1951 Floor area: 41,853 sq. ft.	Barnet S.M. School Tender September, 1952 Floor area: 50,920 sq. ft.	Dartford Technical College Tender: October, 1951 Floor area: 72,640 sq. ft.	Police Headquarters Manchester Tender: April, 1951 Floor area: 61,441 sq. ft.
ELEMENT	s. d.	s. d.	s. d.	s. d.
Preliminaries	0 8	1 0	1 2½	2 3½
Contingencies	—	1 6½	1 5½	1 8
Foundations	7 9½	3 11	4 9	13 0
External wall	5 10	4 0½	8 7½	5 4
Internal partitions	1 5½	1 11	8 5½	2 0
Frame	4 6½	9 6½	7 9½	6 1½
Upper floor	2 0½	2 2½	4 7½	2 3
Roof	6 0½	4 10½	1 4½	4 5
Rooflights	0 3½	0 7½	0 2½	1 0
Windows and Doors	4 1	4 11½	incl. in ext. walls	1 6
Glazing	0 10½	0 9½	0 0½	0 3½
Internal doors	0 7½	0 10½	0 3½	1 0
Ceiling finishes	1 3½	2 2	4 6½	—
Wall finishes	1 10½	2 2	0 2	1 9
Floor finishes	3 3½	4 3½	1 7½	2 8
Decorations	1 9½	2 3	0 6	1 4½
Plumbing internal	3 5½	1 1½	0 8½	0 9
Sanitary fittings	0 4½	0 8½	0 3	0 8
Gas	0 2½	0 4½	—	0 2
Electric	3 3½	3 6	3 10½	5 2½
Heating and ventilation	5 4½	6 0	9 3½	3 10
W.C. doors and partitions	0 1	0 2½	0 2½	—
Cloakroom fittings	0 1½	0 3½	0 1½	—
Built-in fittings	0 4½	3 3	1 11	0 6
Fittings	2 0	0 4½	—	0 8
Ironmongery	0 3	0 9½	0 1½	0 7½
Plumbing external	2 2	1 8	1 1	2 3½
Drainage	5 4½	6 6½	3 6½	4 0½
	59 10	62 10½	60 7½	63 9

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WORKING DETAIL

WINDOWS: 30

APPROACH CONTROL ROOM: LONDON AIRPORT

Frederick Gibberd, architect



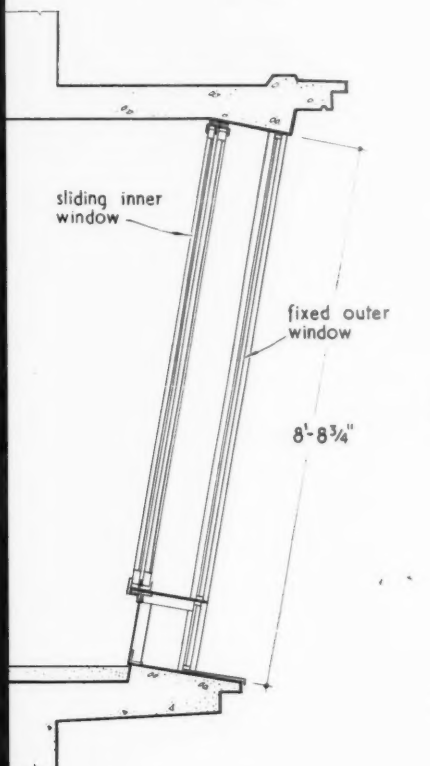
This window is double-glazed for purposes of sound reduction and is canted to eliminate reflection and glazed with anti-sun glass to reduce solar heat transmission. It comprises a fixed outer window and a sliding inner window. The former would have been virtually impossible to clean were it not for a sliding cradle (not included in the drawings) which runs round the full perimeter of the window. As the sliding windows are canted, the runners at the top are at right angles to the plane of the window.

WORKING DETAIL

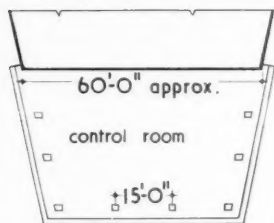
APPROACH CONTROL ROOM: LONDON AIRPORT

Frederick Gibberd, architect

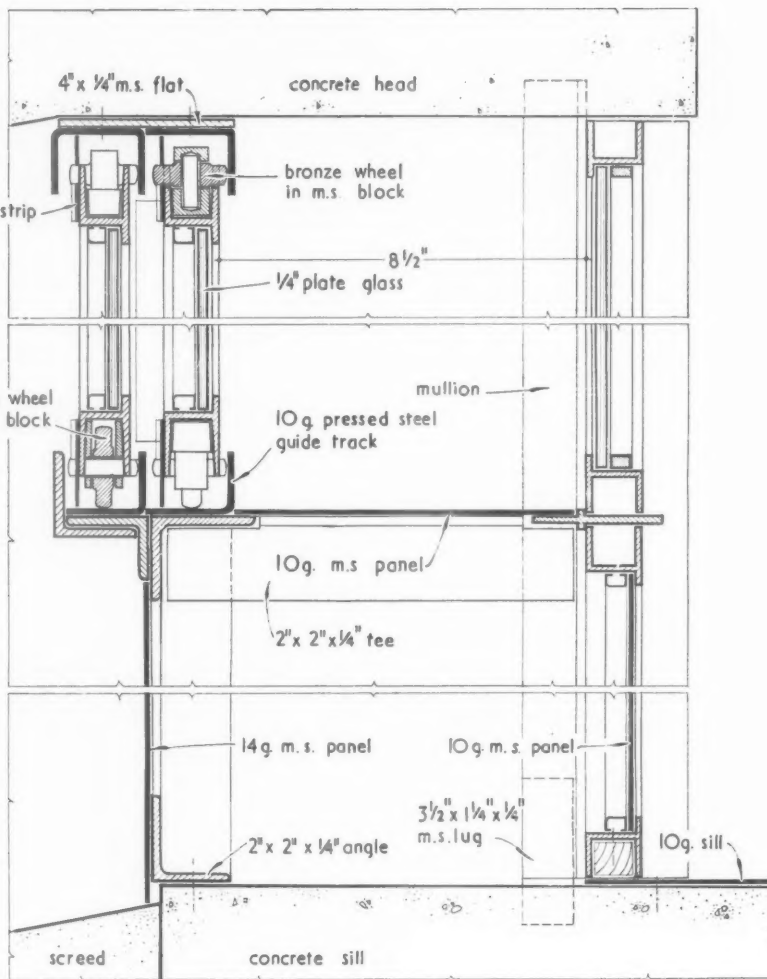
WINDOWS: 30



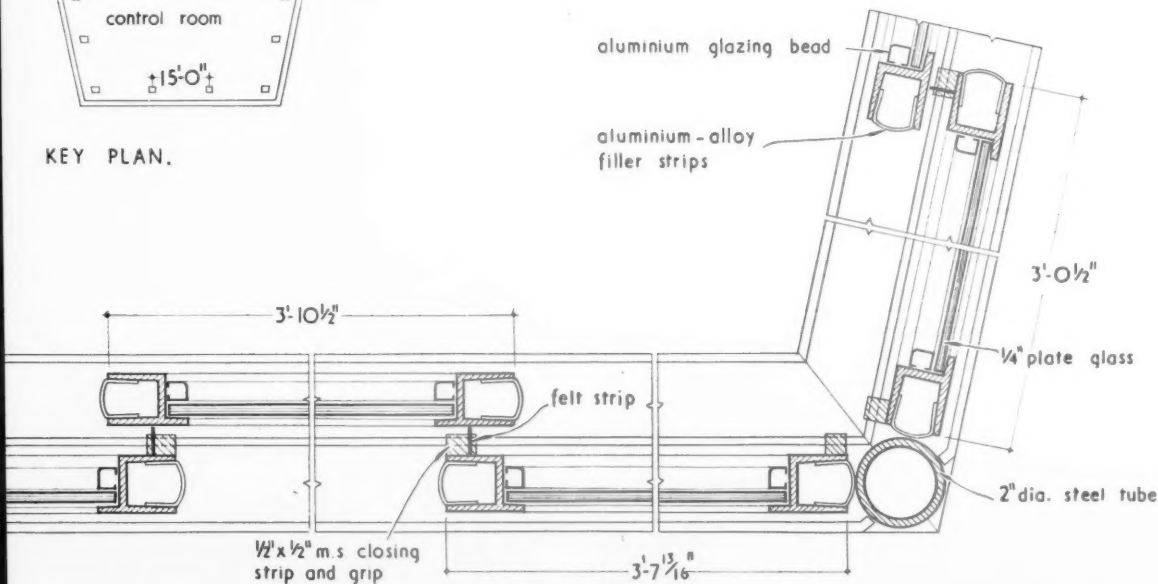
SECTION THROUGH OBSERVATION WINDOW scale 3/8" = 1'-0"



KEY PLAN.



SECTION THROUGH WINDOW. scale 1/4 full size



PART PLAN OF INNER WINDOW AT CORNER. scale 1/4 full size

WORKING DETAIL**ROOFS AND CEILINGS: 25****DOME ROOFLIGHT IN BALCONY LOUNGE: LONDON AIRPORT***Frederick Gibberd, architect*

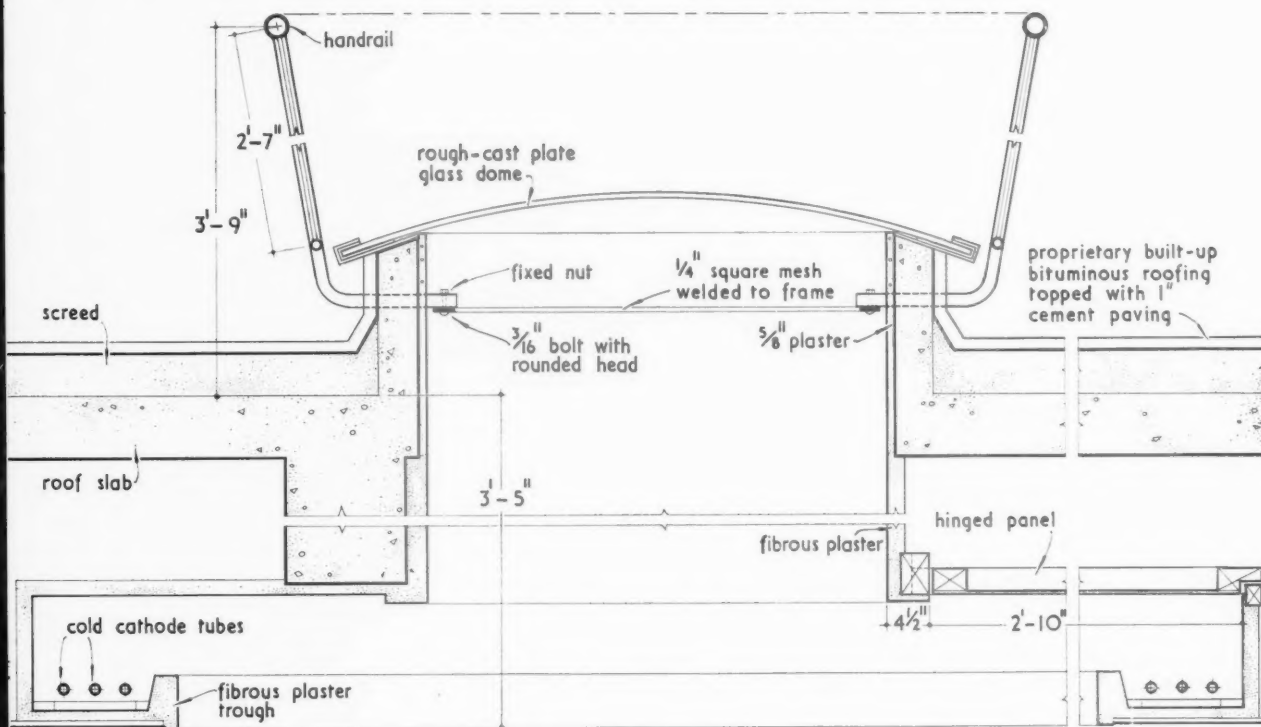
Since this rooflight gives on to the roof garden above, it is protected against crowds by a circular balustrade. The supports of this balustrade, which are cast into the concrete upstand, are used to secure a wire mesh tray to prevent broken glass from falling on people below. Access to the transformer for the cold cathode tubes is by means of a flush-fitting trap door let into the fibrous plaster surround. The tubes are 20/22 mm. dia. "intermediate white."

WORKING DETAIL

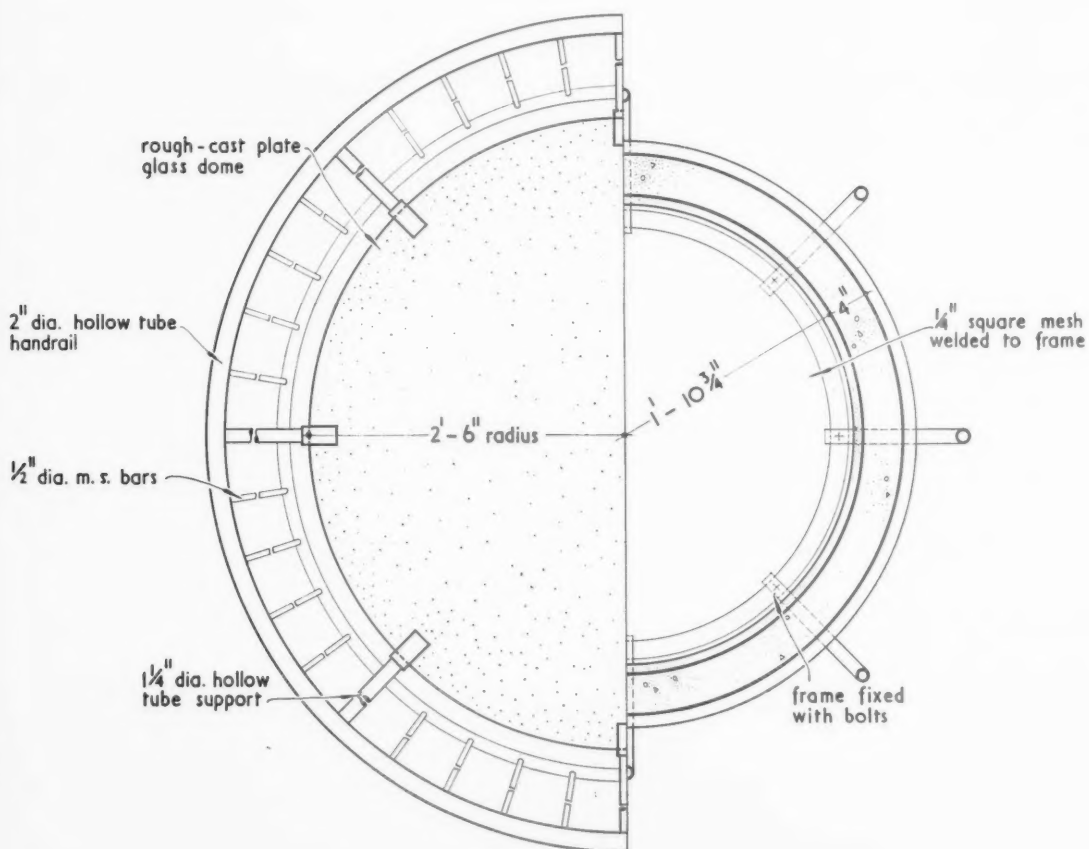
DOME ROOFLIGHT IN BALCONY LOUNGE: LONDON AIRPORT

Frederick Gibberd, architect

ROOFS AND CEILINGS: 25



VERTICAL SECTION THRO' ROOFLIGHT.

scale $\frac{3}{4}'' = 1' - 0''$ 

PART PLAN AND HORIZONTAL SECTION OF ROOFLIGHT.

scale $\frac{3}{4}'' = 1' - 0''$

11

12

TECHNICAL SECTION

Those who have anything to do with maintenance will know the nuisance caused by the traditional "Portsmouth" type ball valve described in B.S. 1212. About a million and a half of these have to be replaced every year in this country: the average life of ball valves in downstairs fittings has been estimated to be from six to eighteen months. A BRS test, conducted by A. Sobolev,* shows that this shortness of life is due to cavity erosion of the seating, caused by the formation and bursting of minute bubbles (that sizzling sound). The solution which BRS propose is to prevent the formation of vortices (hence of bubbles) by rounding the outlet and inlet. This has the added advantage of multiplying the rate of flow by five—thus cutting down that long wait between flushes. Other improvements include a star-sectioned outflow pipe, which deadens sound, and a plastic float which is immune to the electrolytic damage caused by the soldered copper float. A prototype ball valve incorporating these features will be on show at the Building Exhibition.

* Report published in the March issue of the "Journal of Water Engineers."

This week's
special feature

10 DESIGN: BUILDING TYPES design of school kitchens

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

MOE Building Bulletins are almost certainly the most important documents relating to architectural practice these days. Though confined in scope to a single building type—schools—they alone attempt to state what the architect should know about each separate aspect of design: what his competence should be. On March 10 we reviewed MOE Building Bulletin No. 10, on New School Playing Fields: this week we have asked Miss J. E. Walley, of the Department of Household Arts at Queen Elizabeth College, to review Bulletin No. 11, which is devoted to the design of school kitchens.

The main purpose of this Bulletin is to help those who have to design kitchens in new school buildings. Historically its purpose is to lift the whole subject of kitchen design out of the context of the MOW type plans of the war period when the kitchen was thought of as an adjunct to the school and was housed in standard huts. This re-appraisal of the school kitchen is made not by the usual architect-enquiry, of the kind which asks how much room is

needed for each operation, but by an enquiry into the efficiency of the operations themselves, of the sort we associate with the production engineer.

Though the Bulletin is very detailed, the Minister of Education, Sir David Eccles, has been careful to point out that it is concerned only with principles and that none of the plans and diagrams is to be regarded as "standard." As he remarks, there are still gaps in our knowledge on subjects such

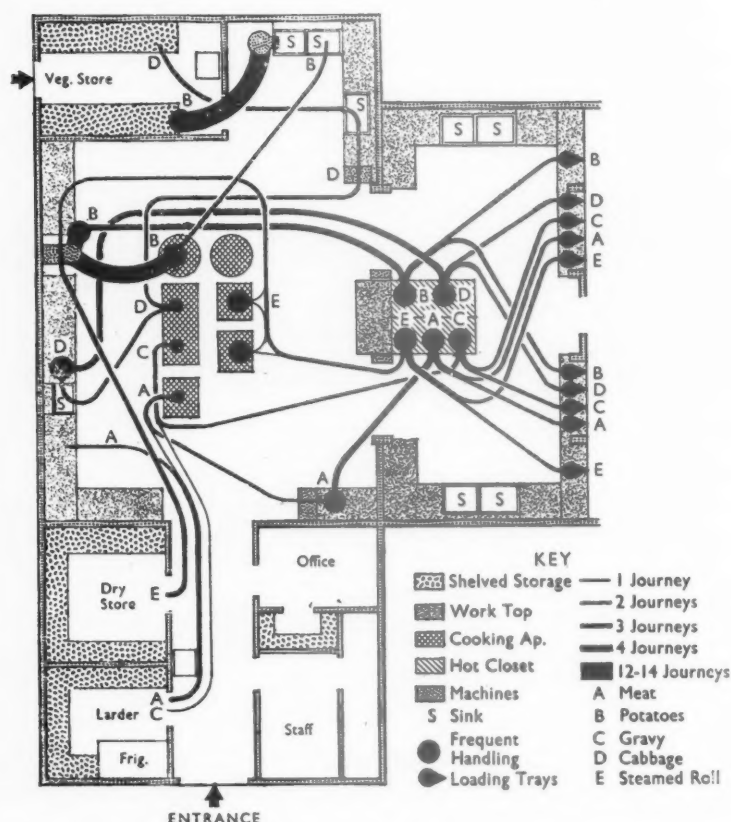
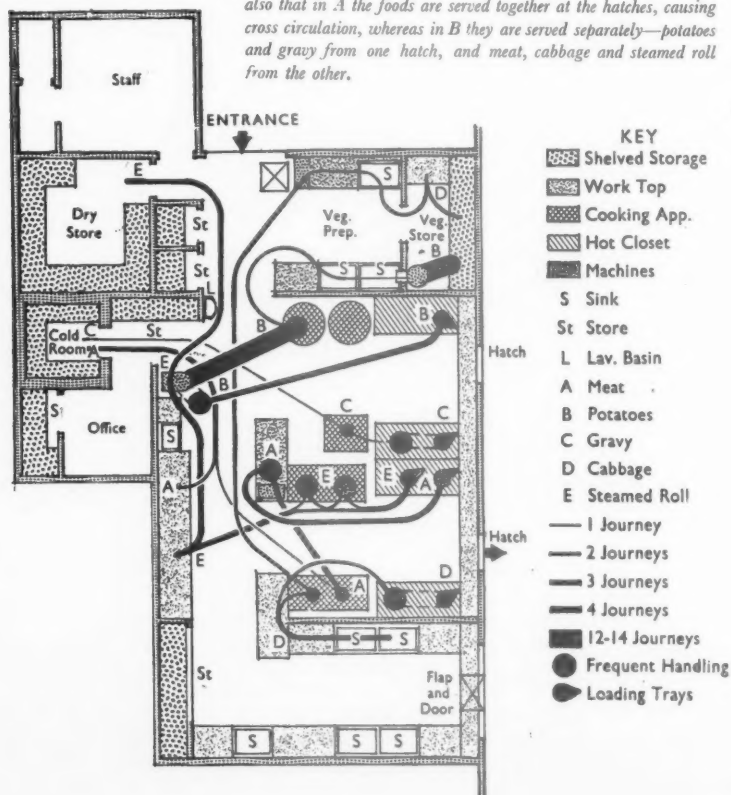


Fig. 1. Diagrams showing the principal movement during the preparation and service of 450 meals using family organization. A (above) is a standard 500-meal kitchen and B (below) is a kitchen which has been reformed on the principles outlined in the Bulletin. It will be noticed that in A the cookers, hot closets and servery form three separated units, whereas in B they are close to one another; also that in A the foods are served together at the hatches, causing cross circulation, whereas in B they are served separately—potatoes and gravy from one hatch, and meat, cabbage and steamed roll from the other.



as ventilation, the design of equipment and the type of meal to be served, and a major change in our ideas about any of these can easily require a change in planning.

FLOOR AREAS AND EFFICIENCY

In planning a kitchen the architect should, of course, try to provide a convenient layout in the smallest possible area. The Bulletin contains a graph and a table of figures showing how total areas used for school kitchens by local authorities gradually increased during the years 1949-52 above those shown in the standard war-time plans which were issued by the MOE. The kitchen areas now recommended and shown to be practicable are less than those of the standard plans; they are "strikingly more economical in area" and, at the same time, "significantly more efficient". For instance, the overall area of a kitchen for 500 meals on the standard plan was 1,750 sq. ft.; the area now recommended is 1,530 sq. ft. This saving has been effected mainly by making the servery a part of the main kitchen, instead of a separate entity as in the old standard plan. Diagrams in the Bulletin, reproduced in Figure 1, show this clearly. Not only has a saving been made in total area but (as is shown by the movement lines in the diagram) the food in preparation travels a shorter distance; this, of course, saves the time and energy of the worker, and adds considerably to increased efficiency in the kitchen. Comparison of the two diagrams shows there is a reduction in the amount of floor area not used for equipment or traffic routes, this means there is a smaller floor area for cleaning as well as a saving in the cost of building.

Section 1 of the book deals with such matters as the type of service and dining organisation; section 2 covers the general basis of design and includes a short statement on time and movement, together with a fascinating, curious, and rather incomprehensible diagram which, it is claimed, illustrates "positions of work" in the kitchen. The writers of the document then discuss at considerable length (in section 3) the design of individual areas. Each area is dealt with in two parts; in the first part is a description of the main processes that take place there and in the second a suggested layout is given. The first is printed in italics, so that it can be skipped by those familiar with this part of the work.

In other sections of the Bulletin one reviews services, physical conditions, construction, materials and finishes. The complete kitchen is dealt with in a summary which includes an aide-memoire of 32 main points to be borne in mind throughout the process of design. Six specimen diagrams illustrate the main principles embodied in the document. One of these diagrams shows the layout of a kitchen for 600 meals, and another for 200 meals. The remaining four are variations of a 300 meal kitchen, one in a non-modular "tailor-made" plan, one on a 10 ft. bay, one on a 3 ft. 4 in. module, and one on an 8 ft. 3 in. module. It is interesting to find that the total

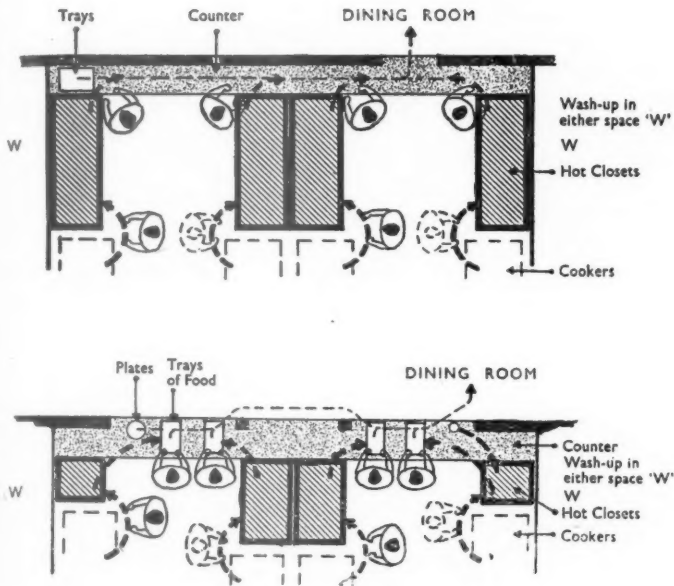


Fig. 2. Serving arrangements for, top, family organization, and above, counter organization.

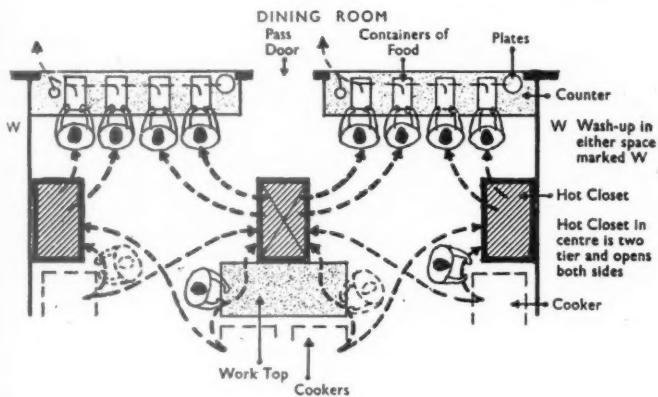


Fig. 3. Service arrangements for counter organization adapted to serve more than 150 meals at a sitting.

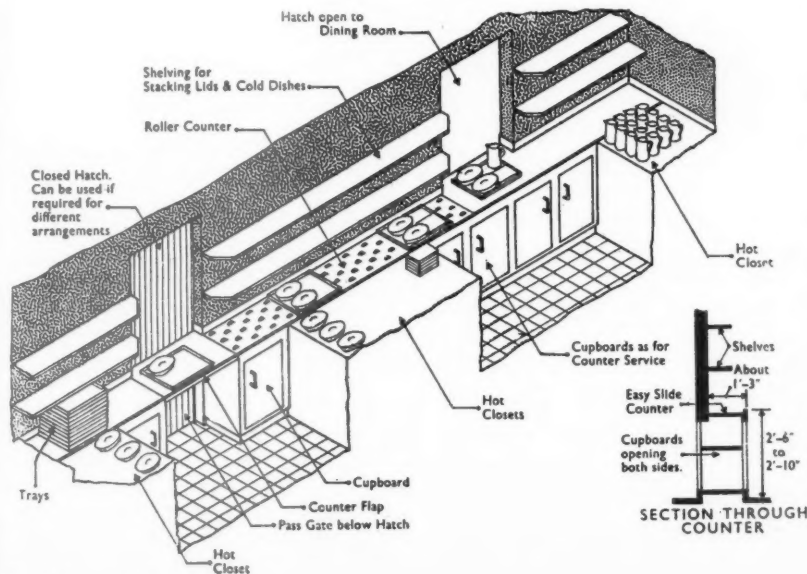


Fig. 4. Counter for family organization.

areas of all four are "within about 40 sq. ft. of each other."

The document deals mainly with kitchens to serve between 150 and 600 daily meals for individual schools, as these are the kitchens now most frequently built. Very large kitchens and the special problem of enlarging existing kitchens are given some brief consideration in an appendix. It is interesting to note that "kitchens within the range of 200-600 meals can be planned at almost the same area per meal," and that "the running costs per meal will not vary greatly." Small kitchens serving less than 150 meals are expensive in capital and running costs, and large ones of over 500 to 600 present serious problems of efficient management.

FAMILY AND COUNTER ORGANIZATIONS

A good feature of the Bulletin is the wealth of illustrations, which includes drawings of suggested storage shelving, diagrams to show the movement of food through the kitchen, as well as a number of suggested layouts for whole kitchens and individual sections. The two diagrams reproduced in Figure 2 show serving arrangements: they illustrate the different requirements for (a) family organization; (b) counter organization. The text explains that for the former the speed of service should be something like twelve trays a minute which, assuming six meals per tray, is seventy-two meals per minute, and that this serving is therefore satisfactory for any normal sized dining room. When counter service is used, however, the speed is much slower, resulting in the service of 150 courses in $7\frac{1}{2}$ minutes. This layout is therefore suitable only for a dining room serving 150 meals. For more than this number an arrangement as shown in Figure 3 is needed. The isometric drawing in Figure 4 gives another impression of serving arrangements and shows the layout of the recommended cupboards, shelves, and hot cupboards. When referring to the layout of the kitchen as a whole, a point is made of the dilemma which is well known to all planners of kitchens, namely the "sharp conflicts of contradictory requirements" which inevitably results in a compromise, and this must always be borne in mind when considering the efficiency of any kitchen layout. This problem should not, however, arise when planning layouts of individual sections in isolation as illustrations, and one wonders therefore why on p. 28 it is necessary to show diagrams of vegetable preparation and store areas in which the route for delivering vegetables lies through the main working area of vegetable preparation.

A number of precise data are given which should prove useful to planners. For instance, the width and height and length of the counter for both family and counter organization; the working height of the sink in vegetable preparation (could not a second figure be given for those cases where the workers sit to do this work?); the temperature of the air surrounding a refrigerator

(but surely the temperature of the air in the kitchen should "never exceed 80° F." in any case); the widths of gangways which it is stated should be wide enough to allow for a probable and not a maximum amount of activity; the clearance distance to allow around cooking apparatus to facilitate cleaning; the minimum areas of table per diner for both types of meal service; the maximum distance for the farthest table from the hatch; the lengths of collection counters for used tableware for both types of service and of the stacking unit; the height of the sink for washing up and of the tabling for the washing machines. Among this wealth of detail the statement on the supply of hot water is rather general, and some idea of likely demands would be more useful.

FOOD STORAGE

Some space is devoted in the bulletin to arrangements for food storage, and this is a very important topic on which careful thought to planning can effect considerable improvements in the efficient use of the cubic space available. It can also save the time and energy of the worker. In the first place careful definition of the various uses of such areas as the larder, the store room and the refrigerator or cold room would seem to be necessary. Surely the refrigerator and cold room are essentially the same in use. The statement that "the general requirements of the larder and the dry store are the same" is perhaps open to question on the score of temperature alone. Low temperatures and condensation are intimately related and the damp stores where moulds grow readily and tins become rusty are all too common a feature of our kitchens. The suggestion for shelving in the storeroom shows shelves of 21 in. depth with a 15 in. clearance between all after the first, and the articles disposed on these occupy the cubic capacity completely, thus following one of the basic principles of efficient storage. Another consideration,

however, is ease of use and the "small bins" of approximately 21 in. by 15 in. by 12 in. may be quite heavy and difficult to handle when filled. The same point arises in the storage at a height of 4 ft. 3 in. of the nets of vegetables which may weigh up to 40 lb. The storage arrangements shown for sacks of potatoes looks neat but will only work satisfactorily if the co-operation of the delivery man can be relied on.

CONCLUSION

The bulletin crystallizes the experience of some fifteen years' work by local authorities and the Ministry of Education in the provision of school meals, and shows clearly that much has been "learned from the

short but crowded history of school kitchens." We know that "the kitchen itself is only a machine; the quality of its products depends entirely on the human element. Good staff will produce first class meals regardless of the shortcoming of the kitchen they have to use. A good kitchen cannot ensure good meals; it can only facilitate and cheapen their production." But the contribution that a well-designed kitchen can make to the production of school dinners which are "nutritious, wholesome and attractive" is very considerable, and this document should help the architect to achieve his end and to avoid "compromise after compromise as his lot and a bad kitchen as his fate."

INFORMATION CENTRE

10.125 design: building types
SHOP DESIGN

The Specialty Shop. Jose A. Fernandez. (Architectural Book Publishing Company Inc. \$12.50.)

This is a revised edition of a book which first appeared in 1950. It is a picture book giving illustrations and thumb nail plans of a very large number of specialty shops ranging from a wine merchants to a corsetorium. All but one (Ellis Somake's Dolcis Shop in Bristol) are American examples. The writer describes very well the attitude of mind which must govern this class of work, though the text of the book is of the kind you imagine a busy man dictating to his secretary in off moments. There are some 50 pages of Working Details in the back of the book, though some of these are rather thin.

23.206 heating: ventilation SKIRTING BOARD HEATING

Skirting Board Heating. A. W. Pratt. (Journal of the IHVE, February, 1955.)

So little has been heard of skirting board heating in this country that this article is to be welcomed. It refers to the well known experiments at the University of Illinois and to some other American examples, and then goes on to describe some tests on four houses at Ipswich, two of which had skirting board heating supplemented by open fires. It finally describes a house of 1,500 sq. ft. at Welwyn where this type of heating was used. The author's conclusions are that it is a pleasant form of heating, neat in appearance, flexible in operation, and no more expensive to run than a comparable system of radiator heating. The cost of installation is not mentioned.

There appears to be some awakening of interest in this form of heating in this country. It certainly has a number of attractive features, but it would be helpful if heating engineers or component manufacturers could make known some reliable facts on first costs—without some guidance on this, many people will not follow it up.

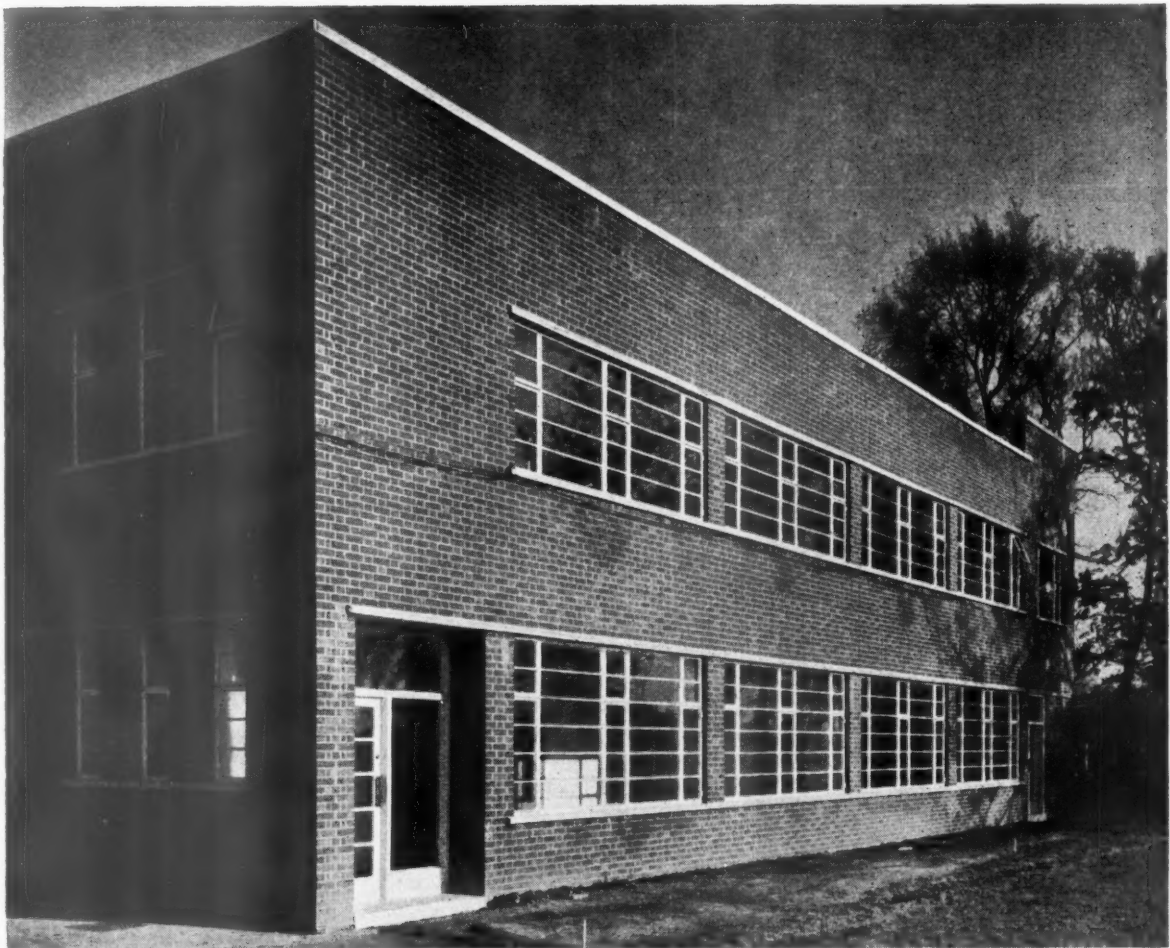
8 ESTIMATING materials' prices

Current prices for measured work will appear on May 19. Prices of materials and measured work last appeared in the JOURNAL on February 10 and February 24, 1955, respectively.

Current rates of wages and market prices of materials prepared by Davis, Belfield and Everest, Chartered Quantity Surveyors. Rates for measured work will be published in the JOURNAL for May 19.

Rates of Wages rose on April 18, 1955 and are now as follows:—

LONDON DISTRICT		Craftsmen.		Labourers.	
Within 12 miles radius	.. ..	4s.	1½d.	3s.	7d.
From 12-15 "	.. ..	4s.	1d.	3s.	6½d.
LIVERPOOL and DISTRICT		.. ..	4s.	1½d.	3s. 7d.
GRADE CLASSIFICATIONS		A	A ¹	A ²	A ³
Craftsmen	.. 4s. 0d.	3s. 11½d.	3s. 11d.	3s. 10½d.	
Labourers	.. 3s. 5½d.	3s. 5d.	3s. 4½d.	3s. 4d.	



Architects: A. F. Scott & Sons, F./A.R.I.B.A., Norwich.

Contractors: R. & H. Wale Ltd., Gamlingay, Beds.

Bricks supplied through Cyril Ridgeon & Son Ltd., Cambridge.

New Canteen and Office Block

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The Istock sand-faced wirecut is among the finest specimens of this type of facing and finds many successful applications in industrial and factory building.

Istock

FACINGS for Colour

Owing to the heavy demand, supplies of facings of most types are booked for a long time ahead, and reservations for 1955/56 are now being made.

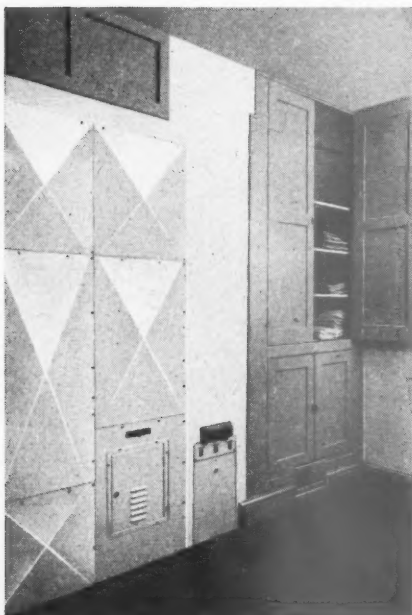
IBSTOCK BRICK & TILE CO. LTD., Istock, near Leicester
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Telephone: Istock 391 (2 lines)
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Prices vary according to quality and the quantity ordered.

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

CONCRETOR

Cements

Portland to B.S. 12, 6 tons and over	per ton	96/6
Rapid hardening to B.S. 12, 6 tons and over	"	104/6
Aquacrete water repellent, 6 tons and over	"	129/-
Aluminous to B.S. 915, 1 ton lots	"	299/6
Sulphate resisting cement, 6 tons and over	"	129/-
Snowcrete, 1 ton lots	"	257/-

Above prices include for delivery to Charing Cross in non-returnable paper bags or cotton sacks.

Aggregate and Sands, etc. (Full Loads)

$\frac{1}{2}$ " (down) Washed, crushed and graded single to B.S. 882, Table 2	per yard cube	20/1
$\frac{1}{4}$ " Ditto	"	19/2
$\frac{1}{8}$ " Sharp washed sand to B.S. 882, Table 3	"	23/2
Vermiculite, $\frac{3}{4}$ " down	per ton	667/6
Brick hardcore	per yard cube	9/6
Ashes	"	10/-

(For Sands for Bricklaying and Plastering, see respective trades)

Floor Blocks

Floor blocks, 12" x 12"	per 1,000	698/-	936/-	1,138/-
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Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, $\frac{5}{16}$ " diameter and upwards, ex mills delivered to station or siding

Extras for:—	per ton	£32 13 0
Under $\frac{5}{16}$ " to $\frac{7}{16}$ " diameter	"	£1 12 0
Ditto $\frac{7}{16}$ " and over $\frac{3}{4}$ " diameter	"	£1 19 6
$\frac{3}{8}$ " and over $\frac{1}{2}$ " diameter	"	£2 9 6
$\frac{1}{2}$ " and over $\frac{5}{8}$ " diameter	"	£2 19 6
$\frac{5}{8}$ " and over $\frac{3}{4}$ " diameter	"	£3 7 0
$\frac{3}{4}$ " and over $\frac{1}{2}$ " diameter	"	£3 17 0
$\frac{1}{2}$ " diameter	"	£4 7 0
Under $\frac{1}{4}$ " to $\frac{3}{16}$ " diameter	"	£6 4 6

Fabric Reinforcement

Steel wire mesh fabric to B.S. 1221, Part A. per yd. super	16.35 lb.	9.32 lb.	4.71 lb.	1.83 lb.
	8/4 $\frac{1}{2}$	4/10 $\frac{1}{2}$	2/5 $\frac{1}{4}$	1/4 $\frac{1}{2}$

BRICKLAYER

Common Bricks

Common stocks	per 1,000	130/4
Rough stocks	"	169/4
Mild stocks	"	210/10
Sand limes	"	110/6
Phorpres pressed flettons	"	113/-

Facing Bricks

Hand-selected sand limes	per 1,000	145/9
Phorpres rustic flettons	"	138/-
Stocks, first hard	"	261/4
Stocks, second hard	"	245/4
Southwater pressed sandfaced reds	"	301/6
Dorking pressed sandfaced multicoloured facings	"	244/-

Engineering Bricks

Lingfield engineering wirecuts. Grade 'B'	per 1,000	225/-
Southwater engineering No. 2 (second quality red pressed)	"	289/-
Blue pressed bricks to B.S. 1301	"	514/6

Glazed Bricks

White, ivory or brown, 9" x 2 $\frac{1}{4}$ " x 4 $\frac{1}{4}$ " delivered London stations.	per 1,000	£ s. d.
Headers	67	14 6
Stretchers	68	16 0
Seconds quality above prices less 10%.		

BRICKLAYER (continued)

Limes and Sands

†Lime, greystone, to B.S. 890	per ton	114/6
†Lime, chalk, ditto	"	114/6
*Lime, hydrated, ditto	"	127/-
Washed pit sand to B.S. 1200	per yard cube	23/2

* Including paper bags.

† Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

Sundries

10 s.w. gauge galvanized butterfly type wall ties to				
B.S. 1243	.....	per 1,000	106/-	
Wall ties, galvanized, 8" × $\frac{1}{4}$ " × $\frac{1}{8}$ ", to B.S. 1243	.....	per cwt.	72/6	
Damp proof course slates:		Imported	Welsh	
Size 14" × 9"	.....	per 100	43/-	78/3
" 14" × 4 $\frac{1}{2}$"	.....	"	21/-	34/9
Hessian base bitumen damp course to				
B.S. 743	.....	per yard super	5/1	
		9" × 3" 9" × 6" 9" × 9"		
Terra-cotta airbricks	..... each	1/3	2/6	6/-
Galvanized cast-iron airbricks	..... "	3/2	5/4	8/-
Galvanized cast-iron hit-and-miss ventilators	..... "	3/2	6/2	8/-
Wall reinforcement supplied in standard rolls containing 25 yards lineal				
† 2" wide black japanned	.....	per roll	3/4 $\frac{1}{2}$	
† 2 $\frac{1}{2}$ " wide black japanned	.....	"	4/3 $\frac{1}{2}$	
† Greater widths pro rata 2 $\frac{1}{2}$ " price, carriage paid on orders of £7.				
Discount for quantities.				

Discount for quantities.

Partitions, etc.

Clinker concrete solid	per yard super	3/7	2 $\frac{1}{2}$	3"	4"
Hollow clay to B.S. 1190 (keyed)	"	4/3	4/6	5/2	—
Moler (keyed)	"	14/3	15/-	16/-	19/3
Leca blocks					21/-
Solid	"	6/-	7/-	8/-	10/-
Hollow	"	7/6	8/6	9/6	—
Building blocks (keyed):—					4"
6 cavity	per yard super				6/7
Normal quality woodwool slabs	1"	11 $\frac{1}{2}$ "	2"	2 $\frac{1}{2}$ "	3"
Minimum delivery, square yards,	500	400	325	275	250
per yd. super	5/-	6/6	8/-	9/2	10/3

PAVIOR

2" coarse gravel for paths	per yard cube	22/3
$\frac{3}{4}$ " fine ditto	"	23/9
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	42/9
Red quarry tiles 6" x 6" x $\frac{7}{8}$ ", to B.S. 1286	per yard super	14/-
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	12/-
Buff quarry tiles, 6" x 6" x $\frac{7}{8}$ ", to B.S. 1286	"	17/3
Ditto 6" x 6" x $\frac{3}{4}$ ", to B.S. 1286	"	14/6
Hard red paving bricks, 2"	per 1,000	467/3
Ditto 1 $\frac{1}{2}$ "	"	441/6

DRAINLAYER

Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	per 1,000	213/6	282/-
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Salt Glazed Stoneware Pipes and Fittings

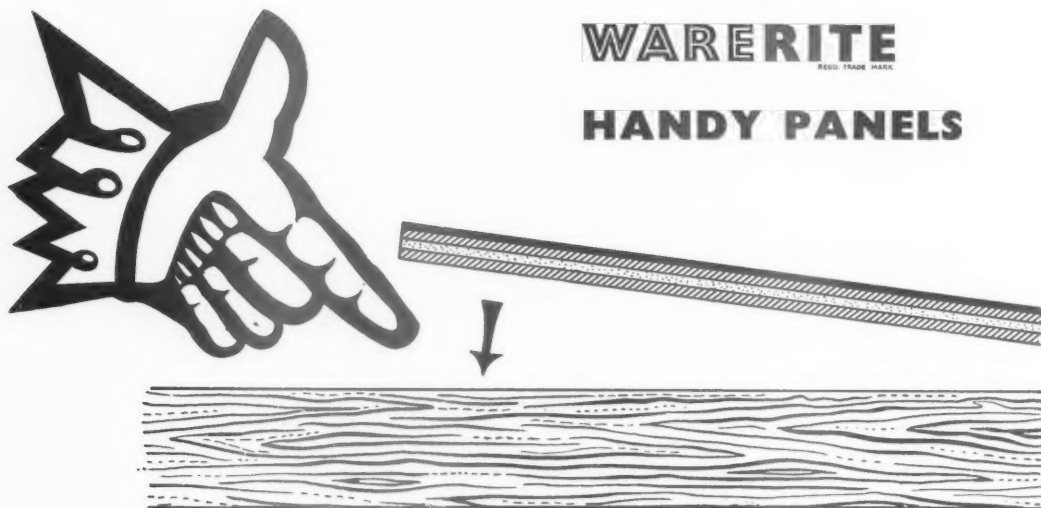
The following percentages to be added to the Standard List prices.

	Orders for 2 tons and over	Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	67 $\frac{1}{2}$ % less 15%	97 $\frac{1}{2}$ % less 15%	107 $\frac{1}{2}$ % less 15%
Best quality	67 $\frac{1}{2}$ %	97 $\frac{1}{2}$ %	107 $\frac{1}{2}$ %
British Standard Quality	67 $\frac{1}{2}$ % + 10%	97 $\frac{1}{2}$ % + 10%	107 $\frac{1}{2}$ % + 10%
Tested Quality	67 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %	107 $\frac{1}{2}$ % + 37 $\frac{1}{2}$ %
British Standard Tested	67 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	97 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %	107 $\frac{1}{2}$ % + 47 $\frac{1}{2}$ %

Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437:—					
Weight per 9 ft. Size	9 fts.	6 fts.	4 fts.	3 fts.	2 fts.
	each	each	each	each	each
1	17	4"	67/-	48/4	37/8
2	0	1	6"	75/10	59/2
3	3	21	9"	183/6	150/10
				125/4	96/6

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WA 9.B

DRAINLAYER—(continued)

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Orders up to 2 tons nett.

	4"	6"	9"
*Bends (short radius) each	15/6	41/3	115/6
*Single junctions "	27/6	66/-	171/-
*Intercepting traps "	101/6	155/6	335/-
*Gullies ordinary trapped "P" "	39/9		
*Extra for 4" vertical back inlet "	8/3		
*Grease gully trap "	325/3		

* These prices are subject to 2½% plusage.

Channels in Brown Glazed Ware

Standard list + same percentages as "Best" quality salt-glazed Stoneware pipes.

White Glazed Channels

Orders under £30, makers' list value. Standard list + 25%.

Manhole covers and frames

	Size of load	Unit price	
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A each	35 tons	190/7	
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B each	5 tons	101/7	
	Size of load	Single seal Flat type	Double seal Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" × 18" each	1 ton	34/10	49/8
Galvanized ditto, 24" × 18" each	1 ton	62/6	87/10
Coated manhole cover and frame, to B.S. 497, Grade C, 24" × 24" each	1 ton	53/1	79/4
Galvanized ditto, 24" × 24" each	1 ton	96/10	137/6

MASON

Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes per foot cube	12/9
Add for blocks to dimension sizes "	1/6 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long) "	14/3
Templates with sawn beds, sawn one edge "	16/6
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads) "	62/11

Bath stone in random blocks

Monk's Park per foot cube	7/10
St. Aldhelm Box Ground "	8/10
Delivered on rail at South Lambeth Station.	

Portland stone in random blocks, average 20 feet cube

Whitbed per foot cube	8/1½
Delivered on rail at Nine Elms Station.	

Somerset stone in random blocks

Douling per foot cube	8/7
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Artificial Stone to B.S. 1217

4½" × 4" Sill, sunk, weathered, throated and grooved per foot run	3/2
9" × 3" Ditto "	4/9
2" × 12" Coping, weathered and twice throated "	4/2
3" × 12" Ditto "	6/4
5" × 12" Saddleback coping, twice throated "	9/5
6" × 12" Ditto "	10/6

SLATER, TILER AND ROOFER

Slates

	£	s.	d.
16" × 10" Best Bangor Slates to B.S. 680 ... per 1,000 actual	50	0	0
20" × 10" Ditto "	83	10	0

SLATER, TILER AND ROOFER (continued)

Tiles

Best hand-made sandfaced 10½" × 6½" red roofing tiles ex works per 1,000	221/6
Machine-made sandfaced best red tiles with continuous nibs, 10½" × 6½" ditto "	183/-
Delivery to London sites 37/- to 45/- per 1000 "	
Bridgwater hand made red sandfaced pantiles, in 6-ton loads "	878/-
Bridgwater hand made red sandfaced Double Roman tiles, in 6-ton loads "	1,156/6
Concrete plain tiles, 10½" × 6½" "	152/6
Ditto interlocking tiles, 15" × 9" "	445/-
Ditto Double Roman Tiles "	760/-

Asbestos-cement

*6" corrugated sheets, grey per yard super 5/9

* Prices are for minimum two-ton loads, and are subject to 5% trade discount.

Felt

Reinforced roofing felt to B.S. 747 per yard sup.	1/6
Roofing felt (1-ply bitumen) to B.S. 747, Part I "	1/6
Bituminous hair felt to B.S. 747, Part II "	2/9

CARPENTER AND JOINER

Wall boards

½" Imported Fibre board 5,000 to 15,000 sq. ft. (per 100 sq. ft.)	42/6
½" Imported Hardboard (per 100 sq. ft.)	42/-
¾" Imported Hardboard (per 100 sq. ft.)	62/6
¾" Semi compressed asbestos cement flat building sheets, grey, size 8' × 4' per yard super	3/1
* ½" Ditto "	4/1

* Prices are for orders of 2 tons and over. Subject to 5% trade discount.

Sundries

"Sisalkraft" standard grade per yard sup.	-/10½
"Sisalkraft" subsoil grade "	-/6½
"Sisalation" single sided "	1/10½
"Sisalation" double sided "	2/10
Fibre glass Bitumen bonded "	1/9½

Timber

Softwood for Carpentry (average price) per std.	£95
Softwood for Joinery (ditto) "	£107
Tongued and Grooved Softwood Flooring (ditto) "	£107
*First Quality European Oak per ft. cube	25/- to 40/-
*Teak "	40/- to 80/-

* Prices vary considerably depending on specification.

Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4 size 2' 6" × 6' 6" × 1½" each	35/3
Type 2 × G size 2' 6" × 6' 6" × 2" "	42/9
Type 4 × G size 2' 6" × 6' 6" × 2" "	49/-

In lots of from 1 to 11 inclusive.

Wood Windows

N 26 V size 1' 5½" × 2' 6¼" each	21/10
2 26 V size 4' 0¼" × 2' 6¼" "	43/8
N 40 V size 1' 5½" × 4' 0¼" "	24/8
3 40 V size 5' 11¼" × 4' 0¼" "	76/7
4 40 V size 7' 10¼" × 4' 0¼" "	96/3

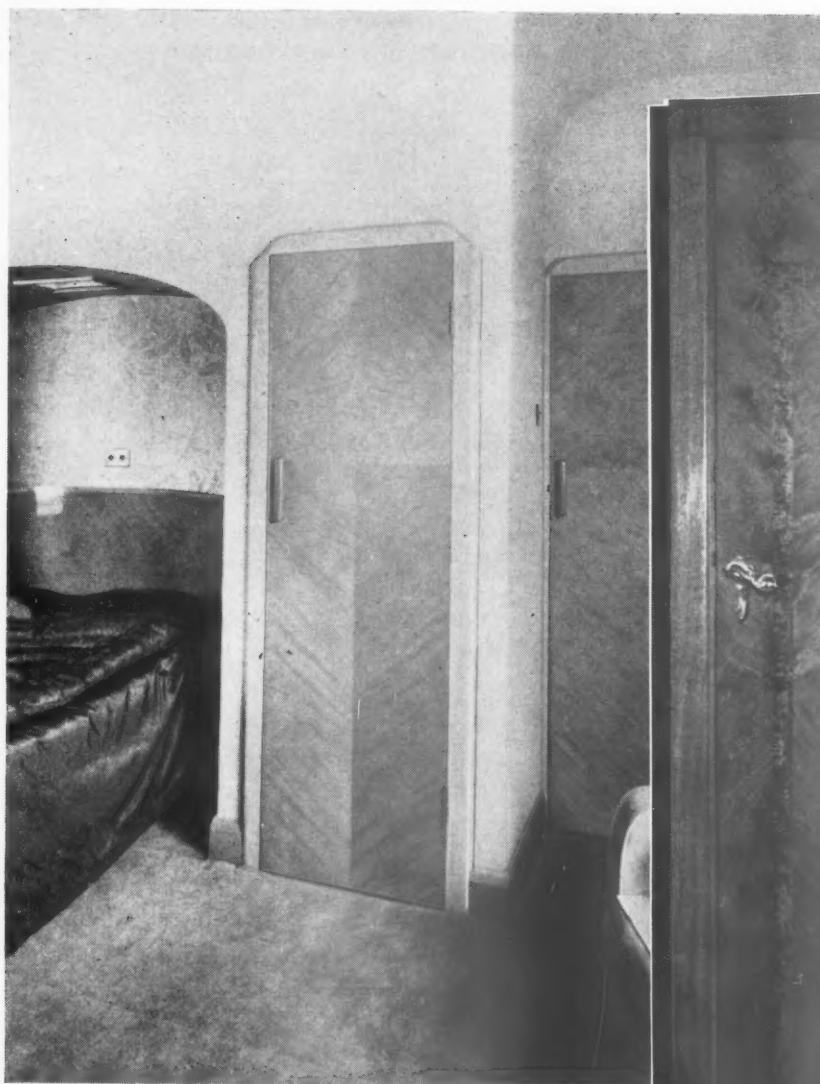
In lots of from 1 to 20 inclusive.

Kitchen Units

No. 1 size 3' 6" × 2' 8" × 1' 7" each	166/3
No. 2 size 3' 6" × 2' 8" × 1' 7" "	115/3
No. 4 size 2' 8" × 1' 9" × 1' 7" "	102/-
No. 5 size 3' 10" × 1' 9" × 1' 7" "	88/7
No. 7 size 6' 6" × 1' 9" × 1' 7" "	133/5

Prices include for tops and plinths.

In lots of from 1 to 15 inclusive.



ROYAL FLUSH

REGD. TRADE MARK 792502

DOORS

The renewed accent on private building again spotlights ROYAL FLUSH Doors as decorative elements in room design. But their beauty is more than skin-deep. Under their handsome veneers—to architects' specification—ROYAL FLUSH Doors embody solid or semi-solid cores, built by craftsmen under strict moisture content control. They are all guaranteed unconditionally. Send for full details and prices.



★ (Left) ROYAL FLUSH Doors in Quartered Sycamore grace this bedroom in a private house.

★ (Right) A handsome ROYAL FLUSH Door in Figured, Curly and Straight-grained Birch in a private house. Architect: H. H. Brown, Esq., F.R.I.B.A. Manchester. Builder: Robert Carlyle & Co. Ltd., Manchester.

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Branches and depots at BRISTOL, LONDON, MANCHESTER, GLASGOW, DUDLEY, HANLEY and KETTERING

STEEL

Basis pri

Extra fo

9" x

14"

16"

18"

5" x

5" x

3½" x

9" x

4" x

4½" x

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Order

STEEL AND IRONWORKER

Basis price for rolled steel joist sections, £ s. d.
in 10 ft. to 50 ft. lengths ex mills per ton 30 5 6

Extra for sizes:—

9" x 7", 10" x 8", 12" x 8", 14" x 5½"		
14" x 6", 14" x 8", 15" x 5", 15" x 6",		
16" x 6", 16" x 8", 18" x 6", 18" x 7",		
18" x 8", 20" x 6½", 20" x 7½"	Add per ton	10 0
5" x 4½", 7" x 3½", 13" x 5"	" "	15 0
5" x 5", 12" x 5", 22" x 7"	" "	1 0 0
3½" x 3½", 6" x 4½", 7" x 4", 8" x 4",		
9" x 4", 10" x 5"	" "	1 5 0
4" x 3", 10" x 4½"	" "	1 10 0
4½" x 4½", 5" x 2½", 5" x 3"	" "	1 15 0
6" x 3", 24" x 7½"	" "	2 0 0
4" x 4"	" "	2 5 0
3" x 3"	" "	2 10 0
4½" x 1½"	" "	3 5 0
3" x 1½", 4" x 1½"	" "	3 10 0
Basis price for angles	ex mills per ton	30 4 6
" " " tees	" "	30 4 6
" " " solid steel columns	" "	32 4 6

All delivered Station or Siding.

Standard Metal Windows

Rustproof type

Type ND2F, 4' 0" x 3' 3¼"	each	46/- to 61/4
" ZND2F, 4' 0" x 4' 0"	"	52/- to 69/4

Prices vary with size of order, those given are maximum and minimum.

PLASTERER

Plaster and Cement

	1-ton loads	4-ton to 5 ton 19 cwt loads
Thistle (browning) to B.S.1191, Class B per ton	152/6	135/-
Gypstone to B.S.1191, Class B	152/6	135/-
Paristone (haired) to B.S.1191, Class B	155/-	137/6
" (unhaired)	152/6	135/-
Cretestone bonding plaster	162/6	145/-
Sirapite (coarse) to B.S.1191, Class C	149/-	133/-
" (fine) to B.S.1191, Class C	157/-	141/-
Keene's Pink to B.S.1191, Class D	198/6	
Keene's White to B.S.1191, Class D	204/-	
Cullamix (Tyrolean Finish), 1-ton lots and upwards	per ton from 184/3	to 217/9

Sundries

Sharp washed sand to B.S.1198	per yard cube	23/2
Cow Hair	per cwt.	97/6
Expanded metal lathing, 9' 0" x 2' 0" x 3/8"	per yd. sup.	2/8½
mesh x 24 gauge		
75 to 149 yards	150-299 yards	300-599 yards
1/2" Plasterboard (base board or lath) per yard super	2/8	2/6
2/5	2/3	
1/2" Insulating ditto, per yard super	3/9	3/7
3/5	3/2	
Plasterboard nails 12 G	per cwt.	121/-
Hessian Scrim cloth in 100-yard rolls, 3½" wide	per roll	7/9

Wall Tiles

The following prices are subject to 25 per cent. addition:—	
Standard quality white glazed 6" x 6" x 3/8"	per yard super 18/6
Cream glazed 6" x 6" x 3/8"	" 20/6
Eggshell or glossy glazed 6" x 6" x 3/8 in.	" 26/3

PLUMBER

Lead and Copper

3½ lb. and upwards milled sheet lead in quantities of 5 cwt. to under 1 ton in sheets to B.S.1178	per cwt.	142/3
Hot rolled copper sheeting in 1-ton lots (4' x 2' sheets), to B.S.899	23 wire gauge, per ton	£ s. d. 428 5 0
" " " " " " " " " " " "	24 wire gauge, "	427 10 0
Zinc sheeting in 1-ton lots	14 gauge	125 15 0

Cast Iron Goods

Percentage Adjustment on List No. 3300 A.B. 1/2/55.

Rainwater Goods (painted or unpainted)	Plus 2½%
Soil goods (coated or uncoated)	Plus 2½%

Mild Steel Rainwater Goods

	Standard List
Gutters (under 100 lengths)	Less 25%
Pipes and Fittings (" ")	Less 25%

Asbestos-Cement Rainwater Goods

The following prices are subject to 12½% trade discount.
Orders over £30 are subject to 17½% trade discount.

PLUMBER (continued)

Rainwater Pipes

	2"	2½"	3"	4"	6"
6' 0" lengths	7/6	8/-	9/8	12/10	25/9 each
10' 0" "	11/10	12/10	15/-	21/6	43/- "

Gutters

	3"	4"	4½"	5"	6"	8"
Half round gutters						
6ft. lengths each	5/-	5/11	6/1	7/2	10/-	12/4

INTERNAL PLUMBER

Lead pipe (basis, weights) in coils 5 cwt. to under 1 ton, up to 4" bore to B.S.602	....	....	....	per cwt.	143/6
Light lead pipe ditto	....	....	....	per cwt.	145/6
Lead pipe to B.S. 1085	....	....	....	per cwt.	151/6
Polythene tubing, normal gauge in quantities of 500 ft. to 999 ft.	1/2"	3/4"	1"	1 1/2"	
per 100 ft.	62/6	123/-	158/6	250/6	
Ditto, heavy gauge ditto					
per 100 ft.	133/-	183/-	233/6	—	
Drawn lead traps with brass screw eye, to B.S.504	1 1/2"-6lb.	1 1/2"-6lb.	2"-7lb.		
S. trap 1 1/2" seal	....each	6/10 1/2	8/2	13/11	
" 3" deep seal	...."	8/2 1/2	9/8 1/2	15/10 1/2	
Drawn copper traps to B.S. 1184	1 1/2"	1 1/2"	2"		
S. trap 1 1/2" seal	....each	22/10	25/3	—	
" 3" deep seal	...."	24/7	27/3	43/7	

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

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

Tubes:	1" to 4"	Fittings:	
Class B	16½%	Lightweight	plus 6%
" C	4½%	Heavyweight	plus 13½%
Galvanized Class B plus 3½%		Galvanized:	
" C plus 19½%		Lightweight	plus 18½%
Galvanized malleable fittings		Heavyweight	plus 26½%
Less 37½% less 6½% plus 40%.			
Copper tubing to B.S. 659 and 1386.		Basic price per lb.	2/11½

GLAZIER

Sheet Glass, cut to size (ordinary glazing quality), to B.S.952, Section A	
18 oz.	per foot super -5/2½
24 oz.	" -7/7½
32 oz.	" 1/1

Polished Plate Glass, ordinary substance, approximately 1/4", to B.S.952, Section A.

In plates not exceeding:	Glazing quality	Selected glazing	Silvering quality
2 ft. super	3/7	4/3	5/1
5 ft. super	4/5	5/2	6/2
*45 ft. super	5/1	5/9	6/11
*100 ft. super	5/6	6/9	8/10

* Extra sizes, i.e., plates exceeding 100 ft. super or 160 in. one way, or 96 in., both ways at higher prices.

1/2" figured rolled and cathedral, to B.S.952,	
Section B—standard patterns, white	per foot super -9
1/2" or 1/4" rolled plate, patterns, white	" 1/-
1/2" or 1/4" rough cast, patterns, white	" 1/-
1/2" Georgian wired cast, patterns, white,	
Section D	" 1/2½
1/2" Georgian wired polished plate, Section D	" 4/10
1/2" wired cast	" 1/2

Attention is drawn to reductions in certain glass prices offered by manufacturers for acceptance of specified minimum quantities of one size and substance delivered to one address at one time.

PAINTER

White ceiling distemper	per cwt.	29/-
Washable distemper	per cwt. from	112/-
Primer, general purpose	per gallon	33/6
Ready mixed, white lead paint	"	62/-
Flat oil paint	"	39/-
Emulsion paint	"	44/-
Hard gloss paint:		
Undercoat	"	42/-
Finishing	"	44/-
White Portland cement paint	per cwt.	71/-

Paul Davis

F.R.I.C.S., F.I.Arb.

Interior Partitioning?



Have you a problem?

Can we help to solve it? We specialize in the manufacture of composite materials suitable for any type of partitioning. Our technical services are at your disposal.

**William Mallinson
and Sons Ltd.**

TIMBER AND VENEER MERCHANTS
MANUFACTURERS OF PLYWOOD, ARMOURPLY, PANELS, COMPOSITE PARTITIONING AND INSULATING BOARDS

130-150 HACKNEY ROAD
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Telephone: Shoreditch 7654 (10 lines)

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THE INDUSTRY

From the Industry this week, Brian Grant reports on new developments in domestic heating, pre-stressing bars, and a lightweight partition panel.

DEVELOPMENT IN HEATING

At the last Building Exhibition, some 18 months ago, one heard rumours that Mr. J. A. Sumner, whose Norwich heat pump should be familiar to most readers, was heating a bungalow with a heat pump rated at about 3 kilowatts. Comparatively little information was available, but Mr. Sumner has now reported (in a paper to the IHVE) on the results obtained in three winters' use.

The bungalow has an area of 1,650 sq. ft., and is heated by $\frac{1}{2}$ -in. copper pipes buried in the 5-in. concrete floor slab at a depth of 2 in. from the surface. The slab rests on a 6-in. vermiculite concrete sub raft, but the author considers that this can be omitted provided that the edges of the slab are adequately insulated. U figures for the various parts of the structure are: walls 0.29, floor 0.3, ceiling 0.16 and windows (double glazed) 0.8.

The heat pump used had a rating of 3.6 kilowatts, this figure including the energy required for the heating coil circulating pump. This provided all the heating and also domestic hot water: facilities are available for refrigeration and deep freezing, but have not so far been used.

Both the running and installation costs are interesting. With all the rooms kept at 60 deg. F. the seasonal cost (including maintenance) was £36 for the heat pump, £89 for "raw" electricity (both at 1d.), using a 10.1 kilowatt immersion heater in the hot water cylinder. Assuming a sectional boiler with an efficiency of 40 per cent., Mr. Sumner calculated that the corresponding cost, using solid fuel, would be £59. With the temperature kept at 65 deg. the corresponding figures are £44, £74 and £111. These may seem high, but the standard of heating allowed for is much higher than usual. Installation costs came to about £100 for the pipework and circulating pump. Cost of the heat pump itself is not given, but Mr. Sumner has assumed that it should be possible to produce a 3-kilowatt unit in quantity for £150 to £200, against which could be allowed the saving on all flues, chimney breasts, fire-places and other heating equipment.

It seems more than possible that the increasing price and the growing scarcity of domestic coal may be another important factor in the development of the heat pump, for, as Mr. Sumner points out, 1 lb. of coal burnt in the house will produce only 1,500 B.Th.U. whereas, owing to the heat pump's efficiency, 1 lb. burnt at the power station

can produce about 9,000 B.Th.U. in the house.

At the opposite end of the scale from the heat pump is the Radiation Group's new Heatmaster. Readers will no doubt remember this firm's whole house heating system, with warm air ducted from a central gas or solid fuel furnace. The idea has now been extended to include water heating and cooking, still from a single unit.

The installation consists of a heavily insulated solid fuel cooker, thermostatically controlled, which also supplies the domestic hot water. Between the cooker and the start of the brick flue is a tubular heat exchanger which heats the room air. Control of this air circulation is by a thermostat in the living room, an electric fan drawing air from one of the upper rooms of the house, passing it through the heat exchanger, and then through ducts to the other rooms as required. Tests in maisonettes at Coventry show that the appliance will provide full heating on the lower floor and background heating on the floor above on a fuel consumption of 2 to 2½ cwt. per week, including cooking and hot water. The Heatmaster will not be in general production until the autumn, but anyone with a house to design might well like to start thinking about it now. (Radiation Group Sales Ltd., Solid Fuel Division, Armley, Leeds 12.)

BARS FOR PRE-TENSIONING

Most readers will know the Lee-McCall system of prestressing, which employs comparatively large diameter bars threaded at each end. For members less than 25 ft. long considerable economies can be made if the bond between the bars and the concrete can be improved as the cost of end anchorages can then be reduced.

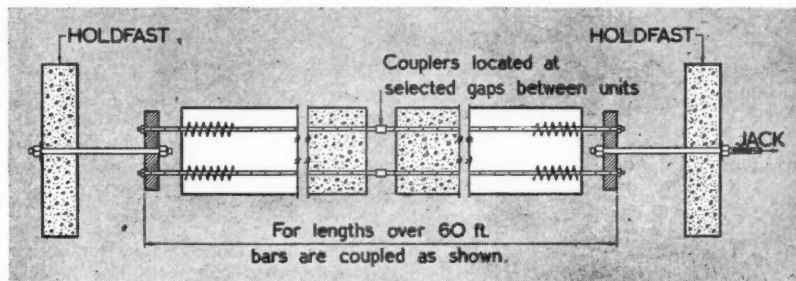
The new Macalloy deformed bar is made of high tensile steel, like the round bars, but is rolled with two longitudinal ribs, which are joined by a series of transverse

ribs at an angle of about 60 deg. to the axis of the bar. One end of the bar is generally threaded, the other end having a self-tightening wedge and collar grip. Both end fittings are recovered when the concrete is cured and can be re-used. The bars can be used for pre- or post-tensioning, the prestress being distributed at the ends of the concrete by wire helices round the ends of each bar (see diagram). $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. bars are produced and the effective cross-sectional area is the same as for round bars of the same nominal diameter. These bars are particularly suitable for pre-cast floor units, where the lengths are usually below 20 ft., and where the cost of end anchorages with any system of post-tensioning is a high proportion of the total steel cost. (McCall's Macalloy Ltd., P.O. Box 41, Templeton, Sheffield.)

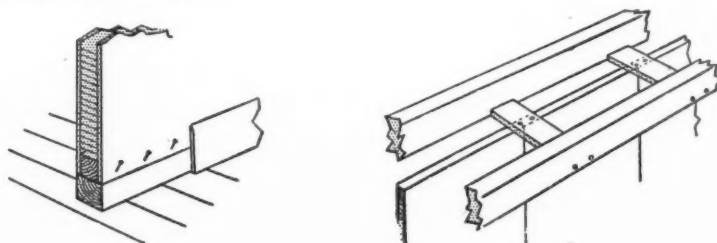
LIGHTWEIGHT PARTITIONING

A new type of lightweight partitioning panel, known as the Shearwater, is now being produced in widths of 3 ft. and 4 ft. and in all heights from 7 ft. to 12 ft. The panel is made up of two sheets of plasterboard separated by a layer of Dufaylite, a honeycomb paper core which is used to a considerable extent in the aircraft industry and which is exceptionally light in weight. Timber head and sole pieces are built into the panels for fixing, details of which are shown in the diagrams below.

Vertical joints between panels are made with 4-in. long wooden blocks, three of which are fixed in each edge of each panel to form a tongue, but where the panels butt against door frames a 3-ft. timber strip is used, flush with the plasterboard edge. When comparatively heavy items such as cisterns or wash basins have to be fixed to the panels, wooden blocks, the thickness of the core, can be driven in on site, and the core can also be pierced for wiring. (Shearwater Ltd., Ditton Road, Widnes, Lancs.)



Above, diagram showing the use of coupled Macalloy deformed bars. Below, fixing details for Shearwater partitions. Left, detail at foot; right, detail at head.



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

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabetical order of manufacturers names please.)

.....

Please ask manufacturers to send further particulars to :—

NAME

PROFESSION or TRADE

ADDRESS

5-5-55

Buildings Illustrated

Divisional Police Headquarters, Talbot Road, Stretford, Manchester, for the Lancashire County Council. (Pages 603-614.)
 Architect: G. Noel Hill, F.R.I.B.A., M.T.P.I., F. A. Hewitt, A.R.I.B.A., Assistant County Architect, E. P. Hains, A.R.I.B.A., Principal Assistant Architect, W. Clayton, A.I.A.A., Architect-in-Charge; consultant, heating, ventilating and structural engineering: S. Boyd, M.I.M.E.C.E., A.M.I.N.A., Chief Engineer, Lancs. County Council; Quantity surveyor: H. Wild, F.R.I.C.S., Chief Quantity Surveyor, Lancs. County Council; General contractors: E. E. Coleman Ltd.; Sub-contractors and suppliers: reinforced concrete, (steel rods) Square Grip Reinforcement Co. Ltd., (fabric reinforcement) Grip Steel Bar Co. Ltd.; bricks, Accrington Brick & Tile Co. Ltd.; quartzite (main entrance), John Stubbs Ltd.; artificial stone, The Liverpool Art Stone Co. Ltd.; terra-cotta, J. G. Edwards (Ruabon) Ltd.; structural steel, Bannister Walton & Co. Ltd.; terrazzo floors, partitions and staircases, Art Pavements & Decorations Ltd.; faience, Shaws Glazed Brick Co. Ltd.; roofing felt, D. Anderson & Son Ltd.; patent glazing, concrete windows and lantern lights, J. A. King & Co. Ltd.; wood block flooring, J. Gerrard & Sons Ltd.; patent flooring, The Neuchatel Asphalte Co. Ltd.; "Sika" waterproofing material, W. J. Harries Ltd.; central heating, ventilation, Brightside Foundry & Engineering Co. Ltd.; gas fixtures, kitchen equipment, North Western Gas Board; boilers, radiators, Ideal Boilers & Radiators Ltd.; electric wiring, D. C. Engineering Co. Ltd.; electric light fixtures, Hailwood & Ackroyd Ltd., Merchant Adventurers of London Ltd., Courtney Pope Ltd., Falk Stadelmann & Co. Ltd., General

Electric Co. Ltd., Benjamin Electric Ltd.; stairtreads (nosings), The Adamite Co. Ltd.; door furniture, James Gibbons Ltd.; casements, window furniture, Metal Casements Ltd.; bells, Gents Ltd.; telephones, intercomm., The Reliance Telephone Co. Ltd., Dictograph Ltd.; folding gates, Bolton Gate Co. Ltd.; garage equipment, C. C. Wakefield & Co. Ltd.; sanitary fittings, Shanks & Co. Ltd.; stable fittings, Salopian Engineers Ltd.; cell doors, James Gibbons Ltd.; sliding gear, Silent Gliding Doors Ltd.; boundary railings, T. Blackburn & Son Ltd.; plaster, W. A. Telling Ltd.; metal work, balustrades, cell doors, James Gibbons Ltd.; joinery, E. E. Coleman Ltd.; tiling, Hulme & Potts Ltd.; furniture (library), E. Taylor & Co. Ltd.; lightning conductors, W. J. Furse & Co. Ltd.; flush doors, L. P. Thomas & Co. Ltd.; lifts, ash hoist, service lift, W. Wadsworth & Sons Ltd.; clocks (Impulse System), Synchronome Co. Ltd.; signs, Parco Industries; paint, Mander Bros. Ltd.; painter, Jas. Ferguson & Co. Ltd.; incinerators, "Barrywald" Saniguard Appliances Ltd.

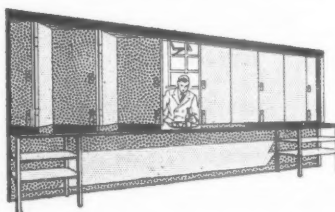
Corrections

On page 454 of our issue for March 31, 1955, Erith & Co. Ltd. were incorrectly shown as suppliers of Swindon wire-cut bricks for the houses at Pitstone, Buckinghamshire. The bricks were supplied by Broad & Co. Ltd.

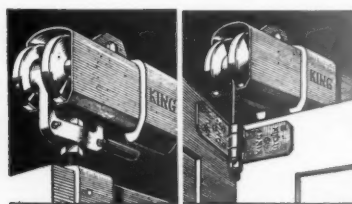
On page 556 of our issue for April 21, 1955, the name of Sovex Ltd. was omitted from the list of sub-contractors for the Passenger Handling Building, London Airport. Messrs. Sovex were responsible for the luggage conveyor belts in this building.



the SHORT of it



KING SLIDING DOOR GEAR IS TROUBLE-FREE



KING TUBULAR TRACK
—in 7 sizes for straight
sliding doors up to
2 tons.

KING TUBULAR TRACK
—for around-the-corner
doors up to 5 cwt. per
leaf.

There's a KING Sliding Door Gear for every application from the light domestic door to power-operated giants. KING Gear embodies special features developed by sound engineering practice and proved in thousands of installations. Specify KING Door Gear and you get the latest advantages in design, material and workmanship that mean smooth action and long trouble-free life. Write for illustrated leaflets.



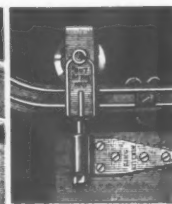
SLIDING DOOR GEAR

Covered by British Patents

GEO. W. KING LTD., 201 ARGYLE WORKS,
STEVENAGE, HERTS. TEL: STEVENAGE 440.



KING 'MAJOR' TRACK
—for around-the-corner
doors up to 3 cwt. per
leaf.



KING 'HOMESTIC' TRACK
—for straight sliding
interior doors.

Think about outside **PAINT**

About colour and looks, of course, but *first* about protection. For an outside paint is not doing its job if it does not protect the surface; the weather will get down to its destructive work and the fabric of the building will suffer.

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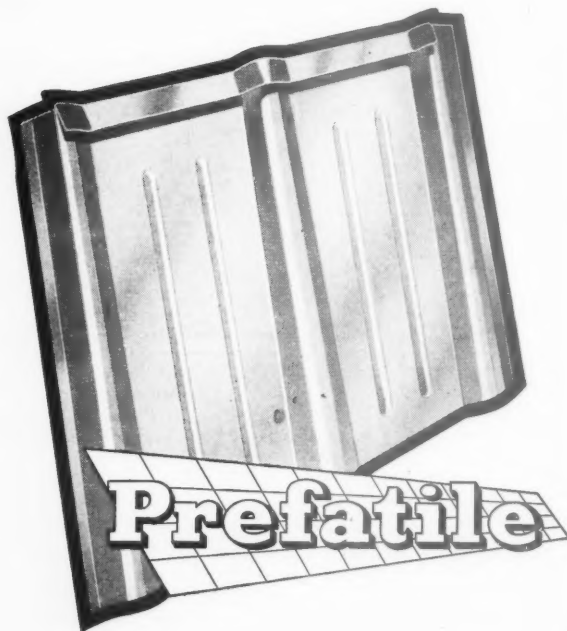
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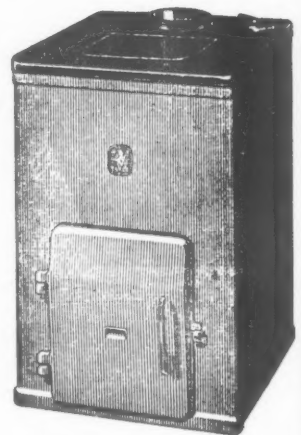
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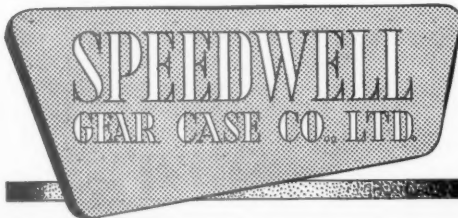
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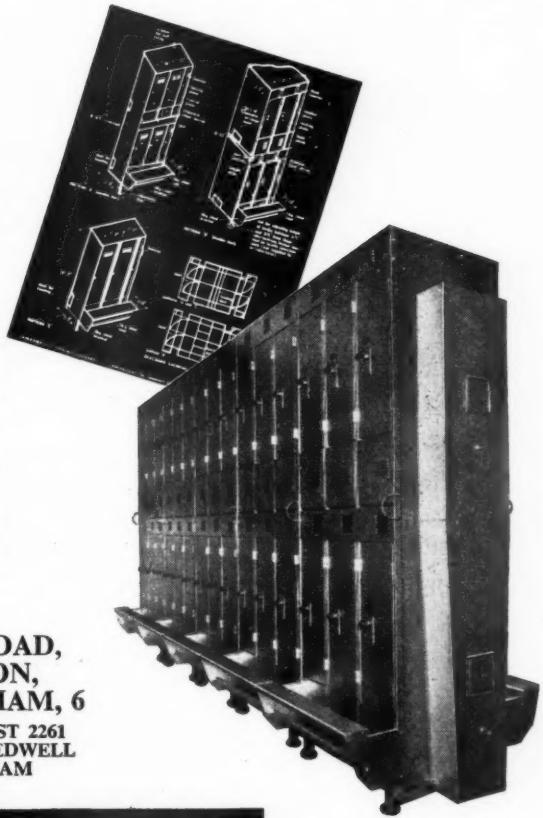
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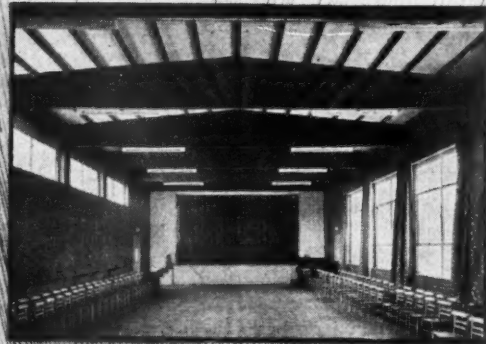


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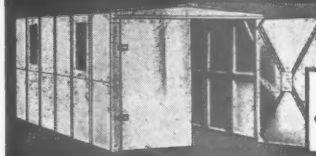
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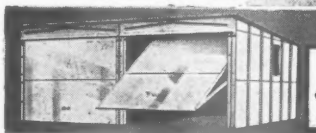
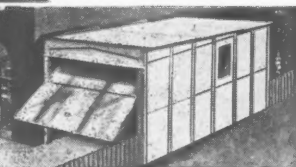
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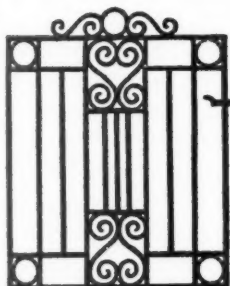
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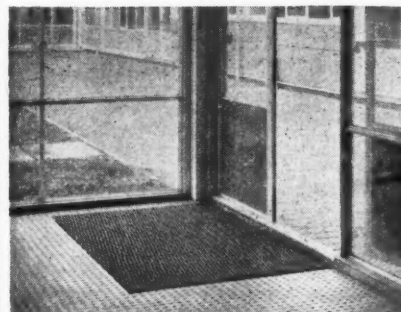
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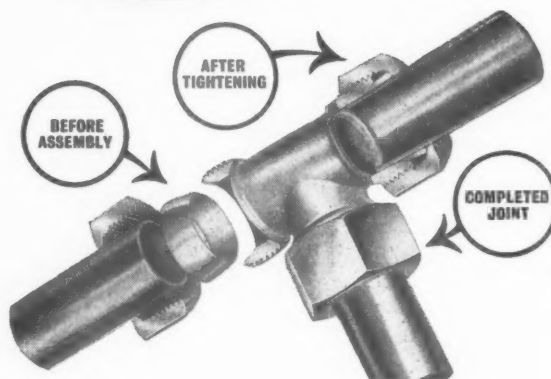
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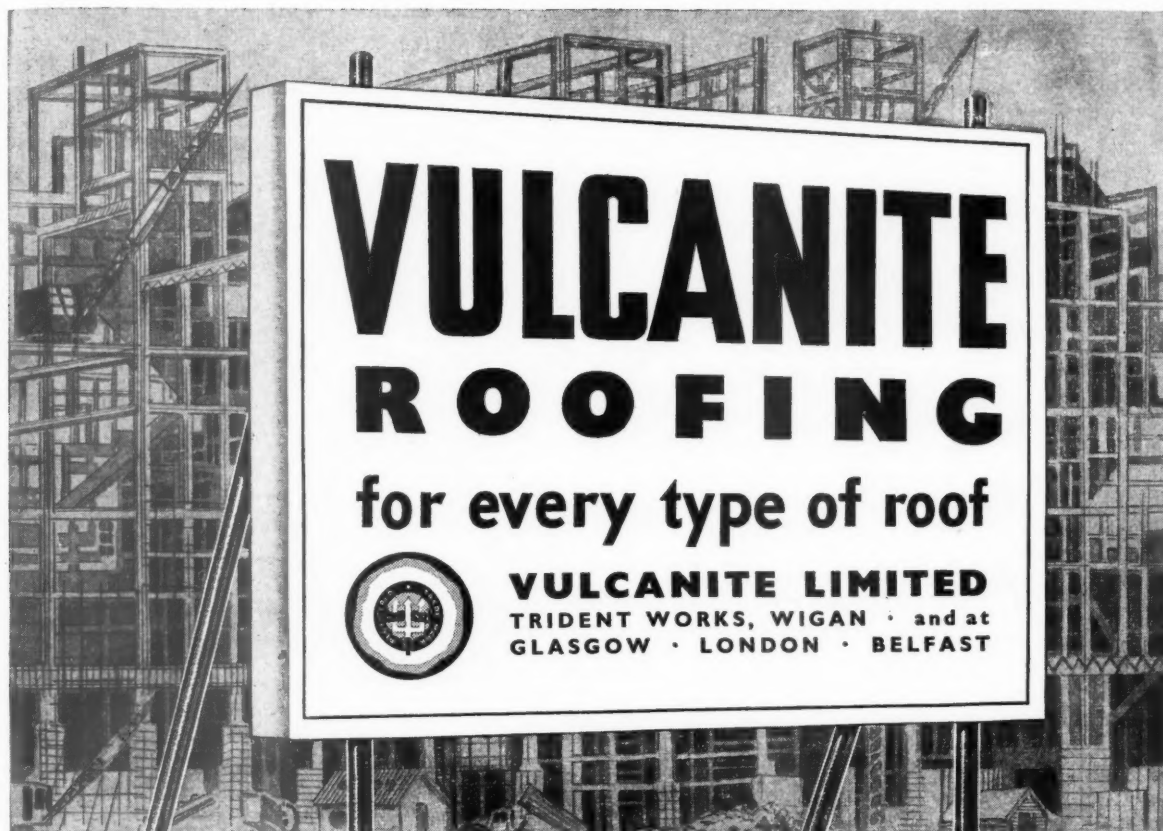
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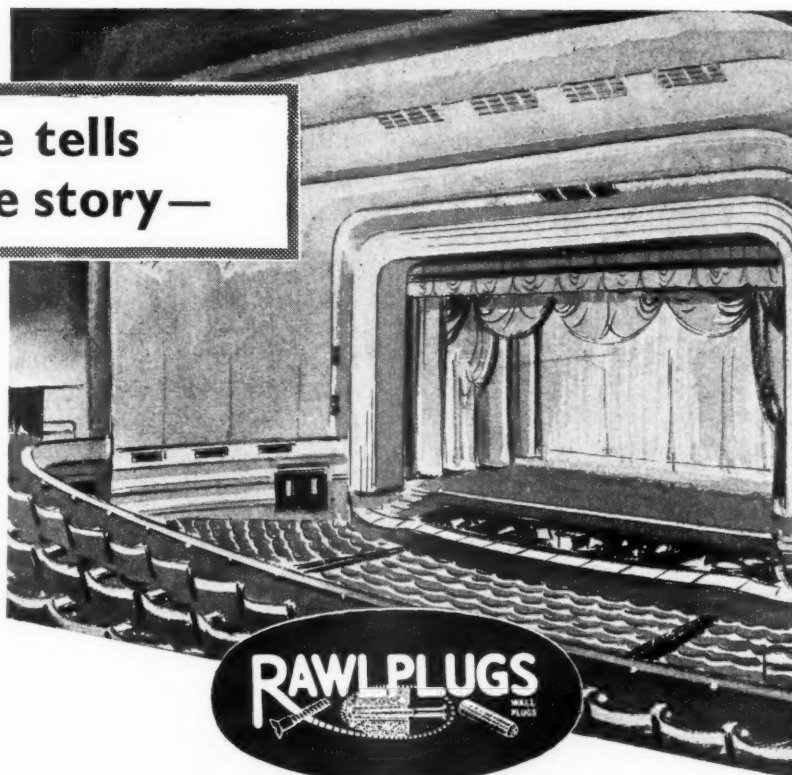
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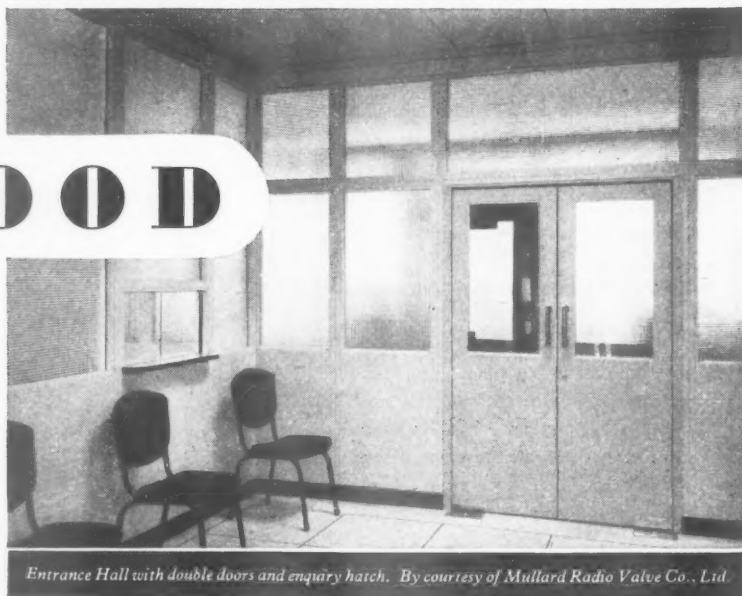
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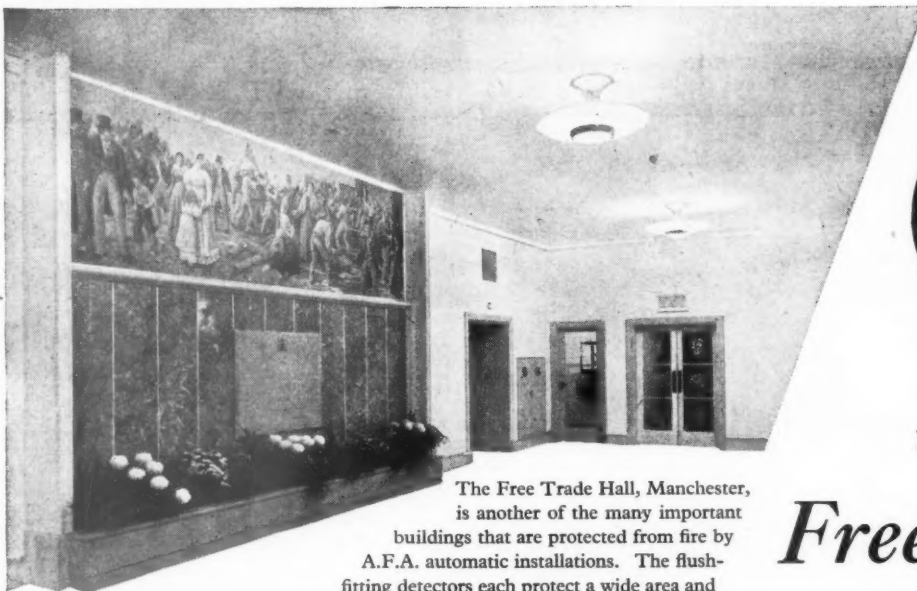
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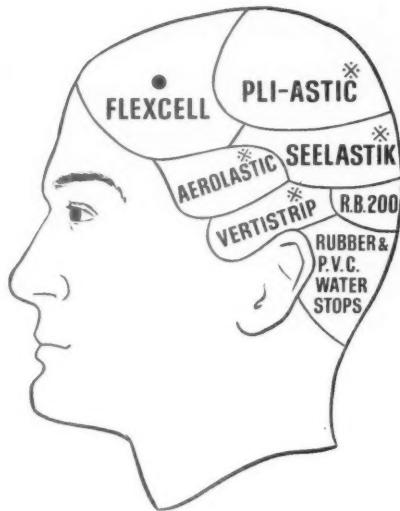
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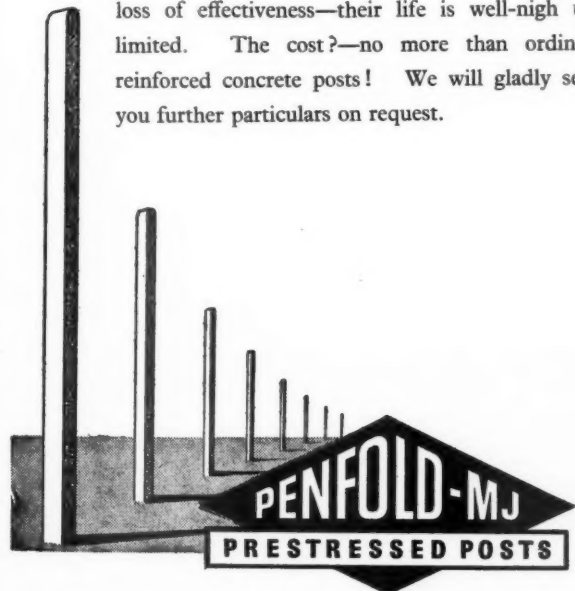
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Candidates should be capable of taking charge of a Civil Section in the Generation (Construction) Drawing Office, and should have experience in the design and detail of heavy reinforced concrete structures, heavy foundations, retaining walls, culverts, etc.

Preference will be given to candidates holding qualifications equivalent to Corporate Membership of the Institution of Civil Engineers.

Salary in accordance with Schedule D, Grade 3 (£860 x £20-£960 per annum) of the National Joint Board Agreement.

Closing date for receipt of applications: 26th May, 1955.

This appointment will be pensionable within the terms and provisions of the Central Electricity Authority and Area Boards Superannuation Scheme.

Applications should be submitted on the official form A.E.G./ACT, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box 25, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy number.

L. F. JEFFREY.

Divisional Controller.

9761

BOROUGH OF BASINGSTOKE.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of CLERK OF WORKS. Salary: Miscellaneous, Grade V (£630-£690). Considerable experience of Housing is essential.

Applications, together with either copies of two recent testimonials or the names and addresses of two referees, must be submitted not later than Wednesday, the 11th May, to the Borough Architect (Eric Almond, Dipl. Arch., A.R.I.B.A.), Municipal Buildings, Basingstoke.

MEIRION O. JONES.

Town Clerk.

9693

KENT COUNTY COUNCIL.

Applications are invited for the following appointments in the Buildings Department:—

(1) ASSISTANT ARCHITECT. Salary within scale £675 to £825.

(2) ARCHITECTURAL ASSISTANT. Salary within scale £650 to £775.

Candidates must have had experience in the design and construction of modern buildings. Those for (1) must be Associates of the Royal Institute of British Architects, and for (2) have passed Parts I and II of the Final Examination of the Institute.

Particulars and forms of application from County Architect, Springfield, Maidstone. Closing date 13th May, 1955. 9693

WORCESTERSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ASSISTANT ARCHITECT, Grade A.P.T., III (£600-£725), or Special Grade (£650-£775), according to qualifications and experience; preferably with some experience of schools.

Application forms and further particulars may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 13th May, 1955. (X.133) 9723

CITY OF NORWICH.

APPOINTMENT OF CITY ARCHITECT.

Applications are invited for this appointment. Salary £1,832, rising to £2,095 per annum. Form of application and details of appointment to be obtained from the Town Clerk, Norwich. Applications to be received by the 31st May, 1955.

BERNARD D. STOREY.

Town Clerk.

City Hall, Norwich. 26th April, 1955. 9785

COUNTY BOROUGH OF STOCKPORT.

ARCHITECTURAL ASSISTANTS, Education Dept.

Salary £675 x £30-£825. Conditions of appointment and application forms from Director of Education, Town Hall, Stockport. 9733

CAMBRIDGESHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) TWO QUANTITY SURVEYORS, Grade A.P.T., IV (£675 to £825).

Applicants should be chartered surveyors, and should have had considerable experience in all duties of quantity surveying, including site measuring and final account.

(b) TWO ASSISTANT ARCHITECTS, Grade A.P.T., V (£750 to £900).

Applicants must be Registered Architects, and preference will be given to Members of the Royal Institute of British Architects. They should have a knowledge of modern school design and construction, the preparation of specifications and site supervision.

(c) THREE ARCHITECTURAL ASSISTANTS, Grade A.P.T., II (£560 to £640).

Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects, or its equivalent at one of the recognised Schools of Architecture, and have worked in an architect's office for a period of two years. They should have a good knowledge of construction and details, and be able to prepare drawings from preliminary sketches.

(d) ONE ARCHITECTURAL ASSISTANT, General Division (£170 to £475).

Applicant should be neat and expeditious draughtsman. Salary according to age and experience.

The appointments are subject to the Local Government Superannuation Acts, 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory medical examination, and termination by one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with one recent testimonial and the names and addresses of two referees, should be submitted to the undersigned not later than 18th May, 1955.

CHARLES PHYTHIAN.

Clerk of the County Council.

Shire Hall, Cambridge. 16th April, 1955. 9716

COUNTY BOROUGH OF CROYDON.

EDUCATION DEPARTMENT.

Applications are invited for the following appointments in the School Architect's Section (School Architect, C. T. Ayerst, A.R.I.B.A.):—

(1) SENIOR ASSISTANT ARCHITECT. Salary £675 x £30-£825 p.a., plus "London weighting." Must be a Member of the R.I.B.A., with considerable experience in preparing sketch plans and working drawings.

(2) JUNIOR ARCHITECTURAL ASSISTANT. Salary £500 x £20-£580 p.a., plus "London weighting."

Application forms from the Chief Education Officer, Katharine Street, Croydon.

Closing date: 16th May, 1955.

No living accommodation is offered.

E. TABERNER.

Town Clerk.

9739

COUNTY OF LINCOLN—PARTS OF KESTIVEN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) SENIOR ASSISTANT ARCHITECT, A.P.T., VI.

(b) ARCHITECTURAL ASSISTANTS, A.P.T., III, II and I.

(c) JUNIOR ARCHITECTURAL ASSISTANTS, General Division.

(d) QUANTITY SURVEYING ASSISTANTS, A.P.T., IV.

(e) ENGINEER'S ASSISTANT (HEATING), A.P.T., III.

(f) ENGINEER'S ASSISTANT (ELECTRICAL), A.P.T., III.

(g) JUNIOR ENGINEERING ASSISTANT (ELECTRICAL), General Division.

(h) CHIEF CLERK, A.P.T., III.

(i) RECORD AND PROGRESS CLERK, Clerical Division.

(j) CLERK OF WORKS, Miscellaneous VI.

Above the General Division scale, commencing salary will be according to experience.

Any further information can be obtained from the County Architect.

Applications, stating the post applied for and giving full particulars of age, training, experience, qualifications, previous and present appointments with dates and salaries, and accompanied by two testimonials, should reach the undersigned by the 16th May, 1955. Canvassing disqualifies.

J. E. BLOW.

Clerk of the County Council.

County Offices, Sleaford, Lincs. May, 1955. 9746

BOROUGH OF BARNES.

TEMPORARY ARCHITECTURAL ASSISTANT.

A.P.T., GRADE II.

Applications are invited for the above appointment at a salary of £580 x £20-£660 per annum. Candidates should be good draughtsmen, and be capable of preparing plans and details for general architectural work.

Applications, giving the names of three persons to whom reference can be made, must be sent to the undersigned not later than Saturday, 21st May, 1955.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S., Borough Engineer and Surveyor.

Municipal Offices, Sheen Lane, S.W.14. 28th April, 1955. 9788

COUNTY BOROUGH OF WEST HARTLEPOOL.
BOROUGH ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the position of Assistant Architect in the Borough Architect's Department on Grade A.P.T. IV (£675-£825). Applicants should be Associates of the Royal Institute of British Architects, and should have considerable experience in Local Authority architectural work, particularly in connection with housing and new schools.

The appointment is subject to the Scheme of Conditions of Service for the National Joint Council for Local Authorities' Administrative, Technical and Clerical Services and the Local Government Superannuation Acts, 1937-1953. The successful candidate will be required to pass a medical examination.

Applications, giving details of age, experience and qualifications, together with copies of not more than three testimonials, should be addressed to the Borough Architect, Municipal Buildings, West Hartlepool. The last day for the receipt of applications is noon on Monday, the 23rd May, 1955.

The Council is prepared to provide housing accommodation, if required, to the successful applicant.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings, West Hartlepool.
26th April, 1955. 9750

MONMOUTHSHIRE COUNTY COUNCIL.
APPOINTMENT OF ARCHITECTURAL STAFF.

Applications are invited for the following posts in the County Architect's Department under N.J.C. conditions:—

TWO ARCHITECTURAL ASSISTANTS. Salary commencing at £765 by £30 annual increments to £825 per annum. Grade A.P.T. IV.

Forms of application, particulars of post and conditions of service, can be obtained from the undersigned.

Applications, together with copies of three testimonials, must be forwarded to the County Architect, Queen's Hill, Newport, Mon., not later than Saturday, the 21st May, 1955.

VERNON LAWRENCE,
Clerk of the Council.

County Hall, Newport, Mon. 9758

COUNTY COUNCIL OF RENFREW.

Applications are invited for the appointment of **SENIOR ARCHITECTURAL ASSISTANT** in the County Engineer's Department (A.P.T. V/VI, £665-£815). Applicants must be Registered Architects and Members of R.I.B.A. and/or R.I.A.S. Previous Local Authority experience would be an advantage. The appointment is superannuable. Applications, stating age, qualifications and experience, together with recent testimonials, should be sent to the County Clerk, P.O. Box 12, Paisley, immediately. 9745

BOROUGH OF BARKING.
DEPARTMENT OF THE BOROUGH ARCHITECT.

APPOINTMENT OF QUANTITY SURVEYING ASSISTANT.

Applications are invited for the appointment of a Quantity Surveying Assistant, Grade A.P.T. I, at a commencing salary of £500 per annum, plus London weighting. Further particulars and form of application may be obtained from the Borough Architect, Town Hall, Barking.

Completed applications should reach the undersigned not later than 9 a.m. on Saturday, 14th May, 1955.

E. R. FARR,
Town Clerk.

COUNTY BOROUGH OF NEWPORT, MON.
Applications are invited for the following appointments:—

(a) **THREE ASSISTANT ARCHITECTS**—two Grade IV (£675-£825), one Special Grade (£650-£775—Grade III if not fully qualified). Candidates should be Associate Members of the Royal Institute of British Architects.

(b) **ONE ARCHITECTURAL ASSISTANT**—Grade I (£500-£580).

(c) **ONE ASSISTANT QUANTITY SURVEYOR**—Grade V (£750-£900). Candidates must be Associate Members of the Royal Institute of Chartered Surveyors or the Institute of Quantity Surveyors.

(d) **ONE ASSISTANT HEATING ENGINEER**—Grade III (£600-£725).

Housing accommodation will be provided, except for the appointment (b).

Conditions of appointment and service and Forms of Application obtainable from the Borough Architect, Civic Centre, Newport, Mon., to whom they should be returned not later than Monday, 23rd May, 1955. 9784

KENT COUNTY COUNCIL requires **TWO ASSISTANTS** in the Planning Department at salaries within the grade £500×£20-£580 per annum.

Candidates must possess an appropriate degree or diploma or have passed a recognised professional Intermediate Examination. A knowledge of architectural design for one post and of landscape design for the other post would be an advantage. National Scheme of Conditions of Service applies, and registered disabled persons will be considered.

Applications, together with the names of two referees, must reach the County Planning Officer, County Hall, Maidstone, not later than 15th June, 1955. 9774

EAST RIDING OF YORKSHIRE
COUNTY COUNCIL.

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

(a) **SENIOR ASSISTANT ARCHITECT:** Grade A.P.T. VI (£825 rising to £1,000).

(b) **ASSISTANT ARCHITECTS:** Grade A.P.T. IV (£675 rising to £825).

(c) **ASSISTANT ARCHITECTS:** Special Scale (£650 rising to £775).

(d) **ARCHITECTURAL ASSISTANTS:** Grade A.P.T. II (£560 rising to £640).

Applicants for post (a) must be Fellows or Associate Members of the R.I.B.A., and should have had considerable experience in architectural design with a sound knowledge of construction. The successful applicant will be required to take charge of a capital works section and should be accustomed to the control of staff and the delegation of work.

Applicants for posts (b), (c) and (d) must possess the qualifications and have had the experience laid down by the National Joint Council as appropriate to the salary grades or scales in question.

The appointments are superannuable and subject to the passing of a medical examination.

Applications, giving particulars of age, training, qualifications, experience, past and present appointments stating salaries, together with the names of three referees, should be addressed to the County Architect, County Hall, Beverley, and must be received by him not later than Friday, 20th May, 1955.

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

THOMAS STEPHENSON,
Clerk of the Council.

County Hall,
Beverley.
May, 1955. 9804

BOROUGH OF WIMBLEDON.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT** on the established staff.

Salary in accordance with Grade A.P.T. I, £500 to £580 per annum. London weighting additional. Applicants should have attended a full-time course of Architecture and to have passed the R.I.B.A. Intermediate Examination or its equivalent; experience in Municipal architectural work would be an advantage. The appointment is subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, and to a satisfactory medical report. Applications, endorsed "Architectural Assistant," stating age, qualifications, former Local Government Service, present and previous appointments and experience, length of notice required to terminate present appointment, and the names of three referees, must be forwarded to the Borough Engineer and Surveyor by the 23rd May, 1955.

Candidates must disclose in writing to the undersigned, if, to their knowledge, they are related to any member or senior officer of the Council. Canvassing disqualifies.

FRANCIS J. O'DOWD,
Town Clerk.

Town Hall, Wimbledon, S.W.19. 9791

SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

(1) **ASSISTANT ARCHITECT,** Grade IV, £675×£30-£825 p.a., plus London allowance. Must be Associate Members R.I.B.A. and have had good training and adequate experience in design and construction of modern buildings.

(2) **ASSISTANT QUANTITY SURVEYOR,** Grade IV, £675×£30-£825 p.a., plus London allowance. Experienced taking off, site measuring, interim valuations and final accounts, and must have passed Final R.I.C.S.

Full details and present salary, accompanied by copies of three recent testimonials, to County Architect, County Hall, Kingston, by 16th May, 1955. 9762

SKEGNESS URBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT, GRADE III
(£600-£725).

Applications are invited from suitably qualified persons for the appointment of Architectural Assistant in the Engineer and Surveyor's Department, the commencing salary to be fixed according to the qualifications and experience of the person appointed.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, and the passing of a medical examination.

Applicants should have had experience in the preparation of plans, designs, details and specifications for the architectural work normally undertaken by an Urban Authority, including the preparation of quantities.

A two-bedroomed g.f. flat on a service tenancy is available for the successful candidate, if required.

Applications, suitably endorsed, together with copies of two recent testimonials, to be delivered to the undersigned not later than 18th May, 1955. Candidates should disclose whether to their knowledge they are related to any member or senior officer of the Council.

IVOR M. CULE,
Clerk to the Council.

Town Hall, Skegness.
28th April, 1955. 9793

HORNCHURCH URBAN DISTRICT COUNCIL.

Applications are invited for posts of **ARCHITECTURAL ASSISTANT**:—

(a) Grade IV—£675-£825—Temporary.

(b) Grade III—£600-£725.

Applicants for post (a) must be Associates of the R.I.B.A., with considerable experience, and preference will be given to candidates who have served with a Local Authority and been engaged on work in connection with town redevelopment schemes.

Applicants for post (b) should have completed professional training and have passed the Intermediate Examination of the R.I.B.A. and had at least 5 years' previous experience, preferably with a Local Authority.

Applications, on forms obtainable from the undersigned, must reach me not later than Saturday, 21st May, 1955, in envelopes appropriately endorsed.

P. L. COX,
Clerk of the Council.

Council Offices, Billet Lane, Hornchurch.
28th April, 1955. 9803

BURGH OF HAMILTON.
ASSISTANT ARCHITECT.

Applications are invited for the above post from Associates of the Royal Institute of British Architects or equivalent qualification, with wide experience in post-war housing and civic building design, etc. The post is superannuable, and the salary A.P.T. V-VI (£665 to £815), with placing according to qualifications and experience. The successful applicant will be given the tenancy of a house if required.

Applications, containing full particulars of age, qualifications and experience, together with the names of three referees, should be lodged with the undersigned not later than 15th May, 1955.

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

JAMES KELLY,
Town Clerk.

The Town House, Hamilton.
28th April, 1955. 9797

LINDSEY COUNTY COUNCIL.
PLANNING DEPARTMENT.

Applications are invited for the appointments of:—

(a) **SENIOR ASSISTANT (ARCHITECTURAL)** at Headquarters, Lincoln. A.P.T. IV (£675-£825).

(b) **ASSISTANT** at Divisional Office, Louth. A.P.T. I (£500-£580).

Successful candidate for (a) will be in charge of the architectural work of the department, and should have experience in dealing with re-development schemes, housing layouts and architectural control. This appointment involves responsibility and provides a wide scope for an architect who is interested in the related architectural/planning problems of a County Planning Authority. Membership of R.I.B.A. essential.

Applicants for (b) should have completed not less than three years' professional training in planning, architect's or engineer's office, and be expert draughtsmen.

Superannuation and N.J.C. conditions of service. Allowance of 25s. per week and return fare home bi-monthly payable for up to six months to married men unable to find housing accommodation. Post (a) requires officer to provide own car for official journeys, for which allowance will be paid at essential user's rate for car not exceeding 10 h.p. or 1.214 c.c.

Applications, with full particulars of age, training, qualifications, experience, and names and addresses of two referees, to be in my hands by 20th May, 1955. Canvassing will disqualify. Relationship to any member or senior officer of the Council to be disclosed in writing by applicants.

R. L. STIRLING,
County Planning Officer.

The Castle, Lincoln. 9778

LAGOS EXECUTIVE DEVELOPMENT BOARD
NIGERIA.

SENIOR ARCHITECT, £1,700-£1,800 per annum.

(1) Applications are invited for the above appointment.

(2) The Board is responsible for large-scale planning control, outline and detail planning and construction for both new development and re-development for industrial, residential and commercial purposes in Lagos. These responsibilities follow very similar lines to those of a Development Corporation operating under the New Towns Act, 1946.

(3) Candidates must preferably have experience in large-scale housing development and be Associate Members of the Royal Institute of British Architects.

(4) Conditions of appointment are as follows: Appointment is for one out of eighteen to twenty-four months in the first instance, renewable by mutual agreement. The Board operates a Provident Fund, to which the officer contributes 10 per cent. of his salary. Leave is granted at the rate of seven days on full pay for each month resident in Lagos. Free first-class air passages are provided for the officer and his wife, and assisted passages (maximum £75 per child) for up to two children, or separation allowance of £75 per annum per child in lieu thereof. Partly furnished quarters are provided, for which a rent of 10 per cent. (maximum £150 per annum) of the officer's basic salary is charged.

(5) Application forms obtainable from The Nigeria Office, 5, Buckingham Gate, London, S.W.1. Completed forms in duplicate returnable to the Nigeria Office not later than 30th May. Mark correspondence L.E.D.B. 9760

**BOROUGH OF WILLESDEN.
ARCHITECTURAL AND TECHNICAL
ASSISTANTS.**

Applications are invited from suitably qualified and experienced persons for the following permanent appointments in the Architectural Section of the Borough Engineer and Surveyor's Department.

- (a) **ARCHITECTURAL ASSISTANTS** (2) Grade A.P.T.VI £325-£35-£1,000 per annum.
- (b) **TECHNICAL ASSISTANT** (1) Grade A.P.T.VI £325-£35-£1,000 per annum.
- (c) **ARCHITECTURAL ASSISTANTS** (5) Grade A.P.T.V £750-£30-£900 per annum.
- (d) **ARCHITECTURAL ASSISTANTS** (2) Grade A.P.T.III/IV £600-£25-£30-£325 per annum.
- (e) **ARCHITECTURAL ASSISTANT** (1) Grade A.P.T.II £560-£20-£640 per annum.

The salaries quoted are exclusive of the appropriate London Weighting which is payable in addition and which is £30 per annum for officers 26 years and over. The commencing salary in each case will be fixed in accordance with the qualifications and experience of the successful candidate.

Applicants for appointments (a) and (c) must be Associates of the R.I.B.A. Applicants for appointment (b) must be either an Associate of the R.I.B.A. or the R.I.C.S. Applicants for appointments (d) and (e) must be students of the R.I.B.A.

There is a large and interesting programme of work in the Department, including the clearance and redevelopment of urban areas for housing purposes, Minor Capital Works for the Education Services and various Municipal buildings.

For one of the posts (a) and (c) preference will be given to candidates having experience in the preparation of layouts for high density housing development.

The Technical Assistant, post (b) will be principally concerned with maintenance and small works of alteration to schools, with possibly an occasional capital job up to about £10,000 in value. The duties of the appointment call for an Architect or Surveyor with a sound practical approach to day-to-day maintenance problems and with considerable experience of specification writing. The person appointed will be required to work with only limited supervision and assistance and to accept responsibility for the carrying through from initiation to completion of a very large number of small jobs, consulting as necessary with Senior Officers of the County Council on aspects of design, construction and finance relating to the work assigned to him. Approximately £60,000 per annum is at present being spent on the maintenance of schools.

Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne Road, Kilburn, N.W.6. Applications are to be returned to the undersigned not later than 10 a.m. on Monday, 23rd May, 1955. When writing for application forms candidates must state for which appointment they wish to apply.

The Council is unable to assist with housing accommodation.

R. S. FORSTER,
Town Clerk.

Town Hall,
Dyne Road,
Kilburn, N.W.6.
April, 1955. 9796

**METROPOLITAN BOROUGH OF FULHAM.
BOROUGH ARCHITECTS' AND HOUSING
DEPARTMENT.**

(a) **SENIOR ASSISTANT QUANTITY SURVEYOR**, A.P.T., V, £750+£30-£900+£30 p.a. London weighting. Applicants must be experienced in the preparation of bills of quantities, building management of large contracts for multi-storied flats and public buildings. A.R.I.C.S. (Quantities) exam. or equivalent.

(b) **ASSISTANT QUANTITY SURVEYOR**, A.P.T., III, £600+£25-£725+£30 p.a. London weighting. Applicants must be experienced in taking-off, final measurement, preparation interim certificates, final accounts, and have passed Intermediate R.I.C.S.

(c) **JUNIOR ASSISTANT QUANTITY SURVEYOR**, A.P.T., I, £500+£20-£580+London weighting £20/£30 p.a., according to age. Applicants should be experienced in "working-up" and abstracting.

(d) **ARCHITECTURAL ASSISTANT**, A.P.T., I or II (£500/580 or £560+£20-£640+London weighting). Applicants must have had at least two years' drawing office experience. Application forms from Town Clerk, Town Hall, S.W.6. Closing date: 17th May. 9761

**METROPOLITAN BOROUGH OF CAMBERWELL.
DEPARTMENT OF DIRECTOR OF HOUSING
AND BOROUGH ARCHITECT.**

(a) **SENIOR ASSISTANT ARCHITECT**. National scale, A.P.T., V, VI or VII (salary range £780-£1,130, inclusive of £30 London weighting) Grade and commencing salary according to qualifications and experience; (b) **ASSISTANT ARCHITECT**, A.P.T., III/IV (£630-£855, inclusive); (c) **JUNIOR ARCHITECT**, A.P.T., II (£590-£670, inclusive). Qualification required for first two posts A.R.I.B.A.; for Junior Architect R.I.B.A. Intermediate Examination or its equivalent, followed by a minimum of one year in an architectural office. Work of department includes design and construction of public buildings, housing estates, including multi-storey construction. No housing provided. Superannuation scheme. Application form from Town Clerk, Town Hall, S.E.5. Closing date: 31st May, 1955. 9787

**BOROUGH OF KETTERING.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.**

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment, at a salary either in accordance with A.P.T., Grade II (£560-£640) or in accordance with the Special Scale applicable to Architectural Assistants (£650-£775), according to qualifications and experience. Housing accommodation will be available if required. Applications with the names of three referees to be sent not later than 21st May, 1955, to the Town Clerk, Town Clerk's Office, Kettering.

D. DUNSFORD PRICE,
Town Clerk. 9809

**OFFICE OF THE RECEIVER FOR THE
METROPOLITAN POLICE DISTRICT.**

Applications are invited for unestablished appointments as **ARCHITECTURAL ASSISTANTS** (New Works and Maintenance Branches) and also as **SANITARY ENGINEERING ASSISTANTS** in the Chief Architect and Surveyor's Department.

Rates of pay, £442 10s. (age 21) by annual increases to £695 (men) and £442 10s. by annual increases to £615 (women). Overtime of approximately £24 per annum is also payable while a 45-hour week is worked.

Conditional hours, 44 per week. Annual leave, 24 days.

Application forms from the Chief Clerk, Architect and Surveyor's Department, New Scotland Yard, S.W.1, stating for which drawing office application is made. 9795

**CITY OF WAKEFIELD.
CITY ENGINEER'S DEPARTMENT.**

Applications are invited for the following superannuable appointments in the City Engineer's Department:—

(a) **SENIOR QUANTITY SURVEYOR**, Grade A.P.T., IV (£675-£825 p.a.).

Candidates must be members by examination of the R.I.C.S. or the I.Q.S., and should have had experience in large scale Local Authority housing and other Municipal buildings.

(b) **ARCHITECTURAL ASSISTANT**, Grade A.P.T., II (£560-£640 p.a.).

Applicants should have passed the A.R.I.B.A. Intermediate Examination, and should have had some Municipal experience.

HOUSING ACCOMMODATION WILL BE CONSIDERED IN CONNECTION WITH APPOINTMENT (a).

Applications, stating age, qualifications, appointments and experience, together with the names of two referees, to be sent to me not later than the 18th May, 1955.

W. S. DES FORGES,
Town Clerk. 9816

**ARGYLL COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the post of **ARCHITECTURAL ASSISTANT** in the County Architect's Department, Dunoon. The salary scale will be A.P.T., Grades 4-6 (£615-£815 per annum), with placing according to qualifications and experience. The post is superannuable.

Applicants must have had a general architectural training, be capable of surveying, levelling, preparing detailed drawings and specifications, and have had experience particularly in connection with school buildings. Preference will be given to applicants who hold a recognised architectural qualification.

Applications, stating age, experience and qualifications, together with copies of two recent testimonials, to be lodged with the County Architect, County Offices, Dunoon, within ten days of publication of this advertisement.

A. D. JACKSON,
County Clerk. 9815

CITY AND COUNTY OF KINGSTON-UPON-HULL.

City Architect's Department.—Applications are invited for the following posts:—(a) **ASSISTANT ARCHITECT**, Grade IV, £575-£925 per annum; (b) **ARCHITECTURAL ASSISTANT**, Grades I-II, £500-£540 per annum; (c) **QUANTITY SURVEYING ASSISTANT**, Grades I-II, £500-£640 per annum; (d) **TEMPORARY ASSISTANT QUANTITY SURVEYOR**, Grade IV, £575-£825 per annum; (e) **TEMPORARY ASSISTANT ARCHITECT**, Grade II, £560-£640 or Special classes £650-£775, according to qualifications and experience; (f) **TEMPORARY ARCHITECTURAL DRAUGHTSMEN**, salary according to experience. Candidates for posts (a) and (c) should preferably be A.R.I.B.A. with experience of modern school design and construction. Housing accommodation will be provided for successful married candidates for posts (a), (b), (c), (d) and (e). Candidates for post (f) should be experienced tracers and colourists. Forms of application may be obtained from the undersigned, to whom they should be returned completed not later than 23rd May, 1955.—Andrew Rankine, O.B.E., A.R.I.B.A., City Architect, Guildhall, Kingston-upon-Hull. April, 1955. 9812

**BOROUGH OF ABERYSTWYTH-CARDIGAN
BAY.**

**ARCHITECTURAL ASSISTANT (FINALIST
A.R.I.B.A.).**

Salary: Minimum £650 p.a.; maximum £775 p.a. Housing accommodation available. Particulars may be obtained from undersigned, to whom applications must be submitted by 20th May, 1955.

J. HENWOOD JONES,
Town Clerk. 9732

Architectural Appointments Vacant

4 lines or under, 7s. 6d.: each additional line, 2s.
The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order, 1952.

ARCHITECTURAL ASSISTANT: Intermediate approaching final. Commercial and industrial work; large-scale contracts. Watson, Johnson, Stokes, Victoria Square, Birmingham. 4695

URGENTLY required. ASSISTANT for responsible position in general practice with interesting work in hand over a large area. Salary directly related to ability. Accommodation available if required. Martindale and Jackson, F.A.R.I.B.A., Cathedral Chambers, Castle Street, Carlisle. 9135

SALARY up to £795, according to experience for ASSISTANT in first class City Office. Box 9169.

ARCHITECTURAL ASSISTANT required, intermediate stage or above, some office experience. Write for interview. Box 8770.

ARCHITECT, OR EXPERIENCED ASSISTANT, REQUIRED BY "THE ARCHITECTS' JOURNAL." Ability to write fluently and well, and a sound knowledge of construction and contemporary building techniques essential. Will be expected to write reports on buildings, supervise the production of technical architectural drawings, commission and sub-edit technical articles and assist production. Please reply to The Editor, "The Architects' Journal," 9, Queen Anne's Gate, S.W.1. 902

REQUIRED in Chief Architect's Department at Head Office of Multiple Store in London. (a) **JUNIOR ARCHITECTURAL DRAUGHTSMAN** or **ASSISTANT** with good basic experience to prepare sketch plans, working drawings and give general assistance. (b) **JUNIOR SHOPFITTING DRAUGHTSMAN** for Store Fixtures and Fittings. Write, with details of experience and salary required, to Box 9194.

SENIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS required. Five-day week. Write or telephone, giving full particulars, including age and salary, to Harker & Hall, Architects, 13, Welbeck Street, W.1 (WELBECK 0061). 9445

OPENING for QUALIFIED ARCHITECTS as Assistant Designers with an expanding firm of new traditional builders. Must have good general practical knowledge and a keen interest in new building methods. A prospect exists for working overseas. Starting salaries range between £650 and £750 according to experience, with an increase after six months' satisfactory service. Messrs. Reema Construction, Ltd., Milford Manor, Salisbury, Wilts. 9235

£500-£700 per annum salary offered for **ASSISTANT** to be part in larger scale development and remodeling of petrol filling stations, service stations, garages and workshops, etc. Must be capable of working independently. Should be of intermediate standard. Work will involve original design, site visits and a high standard of presentation. Five-day week, good pension and life assurance scheme, sickness benefits and free luncheon vouchers. Social Club. Write, giving full details, stating age, experience and salary required to Box 9325, quoting Ref. Y 593.

ARCHITECT with varied practice requires capable **ASSISTANT**. Good draughtsman with knowledge of construction. Reply with details of age, experience and salary expected, to A. W. J. Mullins, L.R.I.B.A., 78, Thoro'fare, Woodbridge, Suffolk. 9393

ASSISTANT SURVEYORS experienced in the preparation of detailed drawings and surveys required by Davis Estates, Ltd., 346/350, Kilburn High Road, London, N.W.6. Apply giving details of past employment and salary required. 9462

ARCHITECTURAL ASSISTANT required in the West End Offices of Percy Bilton Ltd. Salary about £500-£600 according to experience. Work would entail preparation of drawings, details and specifications for wide range of buildings including houses, flats and offices. Write giving experience and other useful information to Staff Architect, Percy Bilton Ltd., 113, Park Street, W.1. 8292

ARCHITECTURAL STAFF, all grades, wanted, interesting and varied work of contemporary character; light and airy offices. Apply J. Seymour Harris & Partners, 4, Greenfield Crescent, Edgbaston, Birmingham, 15. 8786

ARCHITECT'S ASSISTANTS required (1 Senior and 2 Junior) for West End Office. Write, stating full particulars and salary required, to Box 8725.

REQUIRED for Architects' office, Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 3225.

ARCHITECTURAL ASSISTANT required in small private office. Intermediate to Final standard. Write, stating experience and salary required, to: A. F. Bennett, 35, Queen's Gate Mews, London, S.W.7. 9266

ARCHITECTURAL ASSISTANT required by Major Oil Company undergoing expansion, for its Sheffield office. Applicants should be of Intermediate standard, and must be capable of carrying out work on the design and re-modelling of service stations. Social Club, Pension and Life Assurance scheme, generous sickness benefits. Write, giving full details of experience, age and salary required, to Box 9262, quoting Ref. A.A. 588.

YOUNG ASSISTANT, up to Inter-R.I.B.A. standard, required to assist Staff Architect in small Drawing Office of a Multiple Combine with Branches throughout Great Britain. Able to work with the minimum of supervision. Occasional travelling may be involved. Apply, stating age, previous experience, and salary required, to Box 9581.

ARCHITECTURAL ASSISTANTS required immediately for busy Birmingham practice. A.R.I.B.A. and/or Intermediate qualifications. Salary scale £500-£750, according to experience, etc. Write, giving full particulars and when available, to Wood & Kendrick & Williams, 57, Colmore Row, Birmingham, 3. 9683

ARCHITECTURAL ASSISTANT required in small busy office in Westminster. Must be quick and neat draughtsman, with at least 3 years' experience in private practice. Salary according to capabilities. Write, with full particulars, to Michael Brashier, A.R.I.B.A., 11, Gayfere Street, S.W.1. 9682

ARCHITECTURAL ASSISTANTS required in busy London office; able to prepare working and detail drawings and supervise works; must be good draughtsmen. State salary and experience. Phone: Covent Garden 2629. 9622

WANTED, in Oxfordshire office, ARCHITECTURAL ASSISTANT, male or female, approx. Inter standard. One who has some knowledge of, and is interested in, traditional and restoration work. Good prospects and scope for the right applicant, who must be keen and conscientious. Accommodation available. Apply, stating salary required. Box 9594.

ASSISTANT required for Architect's office. Commencing salary up to £600, according to age and experience. Write full particulars to H. Wakeford & Sons, 184, Clapham Road, London, S.W.9. 9609

SAMUEL MORRISON & PARTNERS require the following:—

(a) SEVERAL ARCHITECTS, to undertake research and assume responsibility for the design and erection of contemporary schools.

(b) SEVERAL ARCHITECTS, to carry out similar work in the sphere of housing, shopping centres, etc.

(c) ASSISTANTS of Intermediate or Final standard to collaborate with the above.

(d) An ASSISTANT who is interested in the preparation of articles and typography, in addition to normal architectural work. Salaries comparable to Local Authority Scales; interview expenses paid. St. Alkmunds House, 103, Belper Road, Derby. 9653

BRITISH HOME STORES, LTD., require ARCHITECT'S ASSISTANTS of various grades between 27 and 40 years of age for their Architects' Department. Salary rates from £650 to £1,000 per annum, according to experience. Applicants must have had at least 4 years' office experience. Positions give good opportunities for up-grading. Contributory pension scheme, non-contributory life assurance scheme, and subsidised staff canteen in operation. Applications in writing, giving full details of age, experience, etc., to be sent to Personnel Manager, British Home Stores, Ltd., Marylebone House, 129-137, Marylebone Road, London, N.W.1. 9642

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required for general and commercial practice. Apply, stating age, experience, qualifications and salary required, to Duncan Clark & Beckett, F.R.I.B.A., F.R.I.C.S., Architects and Surveyors, 7, West Stockwell Street, Colchester. 9643

ROFF MARSH, F.R.I.B.A., M.T.P.I., requires CHIEF AND SENIOR ASSISTANT. Interesting work on flats, shops, schools, etc. Apply to 125, London Road, Chelmsford. 9647

REQUIRED by West End London Architects, an ASSISTANT, about Intermediate standard, for varied practice. Write, stating age, experience, and salary required. Box 9651.

ARCHITECTS' ASSISTANT required by small busy office in Essex. Varied and interesting work in Home Counties area. 5-day week. Salary by arrangement. Please write to Box 9659.

VACANCIES occur in busy London Architect's practice for Senior and Junior ASSISTANTS, salaries varying from £600 to £900, according to experience and capabilities. Reply with full particulars to Box 9260.

ARCHITECT'S ASSISTANT, Intermediate standard, required in the Architect's Department of a London Brewery Company. Write with full particulars to Box 9692.

ASSISTANT ARCHITECT, Intermediate standard, urgently required for general practice. Good salary and prospects for suitable applicant. Write, giving age and experience, to W. D. Sterland, 86, Friar Lane, Nottingham. 9612

ARCHITECTURAL ASSISTANTS required in West End office. Qualified or Intermediate standard. Varied and interesting work. 5-day week. Salary range £600-£850. 9614

ARCHITECTURAL ASSISTANTS, Senior and Junior, required for busy Birmingham practice. Apply, stating experience and salary required. Martin-Martin & W. H. Ward, 106, Colmore Row, Birmingham, 3. 9615

CITY of London Architects require JUNIOR ASSISTANT AND SENIOR ASSISTANT for Commercial and Industrial Practice in London and Home Counties. Write, stating age, qualifications and salary required, to Box 9617.

THE STEEL COMPANY OF WALES, LIMITED (Steel Division), PORT TALBOT,

invites applications from suitably qualified Engineers for a number of vacancies created by the present large expansion of the Works.

The Steel Division is a fully integrated iron and steel works, and produces medium and light plates, hot and cold rolled sheets and hot strip for cold rolling into tinplate. These products are used in motor cars, electrical machines, refrigerators, washing machines, oil drums, and many forms of cans and boxes for food and other uses; and are in demand far beyond the present capacity of the industry.

The Works is extremely modern, has excellent working conditions, and a very high standard of plant and equipment.

MECHANICAL, ELECTRICAL AND CIVIL ENGINEERS are required for a wide range of different jobs, including both general development work and the engineering services in manufacturing departments.

The majority of the vacancies to be filled immediately are Assistant Engineers within the various departments concerned. Salary range from £750 to £1,000 per annum, according to qualifications and experience. Prospects of promotion are good.

Experience in the steel industry is not essential although preferred. Age will be reckoned less important than the ability to assimilate training, which will be given to all successful candidates who need it.

The positions are permanent, and the Company has a generous superannuation scheme which is compulsory for all members of the Staff. The Works is situated on the seaboard, with agreeable residential areas nearby.

Those interested should write for official Application Form to the:

PERSONNEL SUPERINTENDENT,
The Steel Company of Wales, Limited
(Steel Division),
Abbey Works, Port Talbot. 9685

JUNIOR AND INTERMEDIATE ARCHITECTURAL ASSISTANTS required urgently in London Office with widely varied practice. Good salaries, 5-day week. Lewis Solomon, Son & Joseph, HOL 5108 or 7082. 8481

RESIDENT REPRESENTATIVE required for East Anglia and East Midlands by leading nationally known manufacturers of prefabricated timber buildings. Applicants must have sound knowledge of building construction with some experience of timber of prefabricated structures. This is an opportunity for a capable sales executive able to initiate, maintain and successfully finalise technical and commercial negotiations at high level. Send fullest details of career, age, experience and salary level to Box 9520.

ARCHITECTURAL ASSISTANTS required in West End Architect's office. Those studying for Inter. to Final R.I.B.A. Examination or qualified. Varied practice, specialising somewhat in factories, city offices and stores. Write, giving full particulars, to Box H.337, Willing's, 362, Grays Inn Road, W.C.1. 9582

ASSISTANT ARCHITECT required urgently in small growing country practice in Swindon. Write stating age, experience and salary required to Box 9802.

ARCHITECTURAL ASSISTANT required for busy practice covering North West England. Box 9136.

F. W. WOOLWORTH & CO. LTD.—ARCHITECTS' ASSISTANT required in Chief Architects Office, London. Write, giving details of experience and salary required, to H. Winbourne, F.R.I.B.A., Chief Architect, F. W. Woolworth & Co. Ltd., 1/5, New Bond Street London, W. 1. 9477

ARCHITECTURAL ASSISTANTS of Final and Intermediate standard required for Bristol Office. Varied and interesting work; good salary; contributory pension scheme. Write giving age, experience and salary to W. H. Watkins, Gray, F.F.R.I.B.A. and Partners, 1, Clare Street, Bristol, 1. 9465

ARCHITECTURAL METALWORK DESIGNER wanted. Top rates paid. Write Box 340, W.B.G., 39, Cheapside, London, E.C.4. 9474

SENIOR ASSISTANT required in Architect's Department of large London industrial concern. Knowledge of London Building Acts and By-Laws an advantage. Good prospects; pension scheme. State age, experience, and salary required. Reply Box 9696.

ARCHITECTURAL ASSISTANT. Quick, accurate draughtsman for Architects' Department of London Property Development Company. Commencing salary £750 p.a., with excellent prospects for right man. 5-day week—overtime paid. Write, with full particulars of age and experience, to Box 1823, c/o Whites, Ltd., 72/78, Fleet Street, London, E.C.4. 9703

CECIL Howitt & Partners, Architects, 81, Andrew's House, Mansfield Road, Nottingham, require JUNIOR ARCHITECTURAL ASSISTANTS, preferably Inter. R.I.B.A. standard. Please apply in writing, giving full details and stating salary required. 4705

SENIOR ASSISTANT required by West End Architects. Should be A.R.I.B.A. about 35. Starting salary up to £1,000 p.a., according to experience. Box 9789.

ASSISTANT ARCHITECT required; Inter. or A.R.I.B.A., preferably school-trained. Good contemporary design essential. Salary up to £600, according to ability and experience. H. M. R. & H. W. D. Burgess, A.A.R.I.B.A., F.R.I.C.S., 30, Mill Street, Pontypridd. 9790.

GOODAY & NOBLE require an ASSISTANT of Intermediate to Final standard. Apply in writing, stating salary required, to 2, Cadogan Place, S.W.1. 9792

ARCHITECTURAL ASSISTANT required, intermediate standard, with private office experience, also JUNIOR for our Tiverton Branch. H. S. W. Stone & Partners F.F.R.I.B.A., 20, The Crescent, Taunton, Somerset. 9794

APPLICATIONS are invited for the post of SENIOR DRAUGHTSMAN with firm of Builders and Estate Developers in South Bedfordshire. Thorough knowledge of surveying, estate layouts, design and detailing of various buildings essential, combined with ability to work on own initiative and assume responsibility for production of drawings. Pension scheme in operation. Apply, stating age, previous experience and salary required to H. C. James Ltd., 183, High Town Road, Luton. 9798

B.C. invites applications for post in Building Department in connection with practical application of acoustic principles in design and treatment of studios. Consideration will be given to applications from qualified engineers or physicists specialising in acoustics with an appreciation of architecture or from qualified architects with a sound knowledge of physics. Knowledge and appreciation of music essential. Successful candidate will be required to work in close co-operation with the Acoustics Group of Engineering Research Department. Salary in the range £1,085 to £1,605 per annum, according to qualifications and experience. Requests for application form to Engineering Establishment Officer, Broadcasting House, London, W.1, within 7 days, quoting ref. EX.33 A.J. 9799

ASSISTANT (MALE) required immediately; Final standard with at least four years' office experience. Apply Walters & Kerr Bates, 14, Gray's Inn Square, W.C.1. Tel.: Holborn 9850. 9800

TWO ARCHITECTURAL ASSISTANTS required, inter. standard, for contemporary office. Salary according to experience. C. H. Elsom, F.R.I.B.A., 44, Catherine Place, S.W.1, Victoria 4304. 9801

ARCHITECTURAL ASSISTANT required with office experience, preferably industrial or schools. Salary by arrangement. Llewellyn Smith & Waters, 103, Old Brompton Road, S.W.7. 9128

ARCHITECTURAL ASSISTANT; Intermediate or Senior, for General Practice in Dartford, Kent. Salary by arrangement. Box 9773.

THE NUFFIELD FOUNDATION. VACANCIES occur for ARCHITECTURAL ASSISTANTS of both Final and Intermediate standard in the Nuffield Foundation's Division for Architectural Studies, working on hospitals, research laboratories and farm buildings. All those interested should write in to the Director. Salary by agreement. Box 9755.

ARCHITECTURAL ASSISTANTS (SENIOR AND JUNIOR) required. Please reply giving particulars of qualifications, experience and salary required to Bernard H. Dale and Partners, 19, Carlton Crescent, Southampton. 9783

ASSISTANT able to develop working drawings from sketch designs and to take control of small jobs from start to finish required in south-west country practice. Starting salary in range £300 to £400 with prospect of share in profits upon proof of enthusiasm and reliability. Write giving fullest possible particulars to Alec H. Joy, A.R.I.B.A., Northville Road, Kingsbridge, Devon. 9775

ADAMS HOLDEN & PEARSON require SENIOR ARCHITECTURAL ASSISTANTS immediately. Write giving particulars of experience and salary required to 38, Gordon Square, W.C.1. 9776

TWO ASSISTANTS required for private office engaged in hospital work. Newly qualified or Inter. R.I.B.A. standard. Salary £500 to £650 p.a., according to experience. Applications stating age, qualifications and experience to W. Fowler Howitt, Esq., A.R.I.B.A., 77, Lambeth Palace Road, London, S.E.1. 9777

EXPERIENCED ARCHITECTURAL DRAUGHTSMAN, experienced in industrial building details. Westminster. Five-day week. Salary £16 per week. Box 9779.

CONTEMPORARY ARCHITECT requires **PERSONAL ASSISTANT** (male or female) with particular interest in design and presentation. 5-day week. Varied and interesting work. Apply with full details, including salary required to Box 9780.

ASSISTANT BUILDING SURVEYOR required by an old established Midlands firm of surveyors with town and country practice. Applicants should be experienced in surveying sites and buildings and preparing plans, specifications and schedules. Salary according to capabilities. Write giving full details of age and experience. Apply Box 9781.

DEVON ARCHITECT requires **ASSISTANT** of R.I.B.A. Intermediate or Final standard for small busy office. Varied and interesting work with plenty of scope for someone with enthusiasm. Starting salary will depend on previous experience and will be raised according to capability. Antony Lamb, A.R.I.B.A., A.M.T.P.I., Architect, 2, Prospect Place, Ottery St. Mary, Devon. 9782.

ARCHITECTURAL ASSISTANT required with office experience, preferably hospital, for private practice, good salary paid to suitable applicant. Apply giving full particulars: T. F. Lawson, A.R.I.B.A., F.R.I.C.S. Newrich Union Chambers, Clarence Street, Gloucester. 9786

ARCHITECTURAL DRAUGHTSMEN required for architect's office in Manchester. Sound knowledge of construction, able to prepare working drawings and details. Write stating age, experience and salary required. Box 9774.

ARCHITECTS' ASSISTANTS required for General Architectural practice in Manchester. Write stating age, qualifications and experience. Salary £600 to £800 according to experience. Box 9770.

ARCHITECTURAL ASSISTANTS required. State age, qualifications and salary. J. W. Beaumont & Sons, 51, Mosley Street, Manchester. 2. 9769

ARCHITECTS with extensive London and Provincial Practice, covering all classes of industrial, commercial and domestic work require **ASSISTANTS**. Write giving details of experience, etc., to Box 9768.

ABBEY & HANSON of 11 Cloth Hall Street, Huddersfield, and 11 Wyle Cop, Shrewsbury, require **SENIOR AND JUNIOR ASSISTANTS**. Interesting contemporary design in this country and abroad. Good salary and prospects. Apply to Huddersfield Office (telephone 225) giving experience and salary required. 9767

ASSISTANT ARCHITECT required. Please reply stating age, qualifications, experience and salary required to Richard Brown, 123, Victoria Road, Darlington. 9765

ASSISTANT ARCHITECTS required for interesting contemporary work. Salaries £500-£800, according to experience. Apply in writing only to J. Brian Cooper, F.R.I.B.A., 171, Corporation Street, Birmingham. 4. 9764

WELL-KNOWN ARCHITECTS require **TWO ARCHITECTURAL ASSISTANTS/ DRAUGHTSMEN** for large and small works. Wide experience and prospects are offered to competent and enthusiastic Assistants. Salary approximately £500-£750, according to ability. Box 9814.

SENIOR/LEADING ASSISTANT required in Reading Office-General, Industrial and commercial work-Pension Scheme. Apply Sainsbury and Chamberlain, I./F.R.I.B.A., 14, Cross Street, Reading. 9722

ASSISTANT at about Intermediate standard required. Full experience working drawings. Commencing salary £400. Reply giving age, general and technical education and experience to Mauchlen, Weightman & Elphick, Saville Row, Newcastle-upon-Tyne. 9721

ARCHITECTURAL ASSISTANT or BUILDING DRAUGHTSMAN age up to 35, required for work on industrial buildings. Preference given to candidates with Inter. R.I.B.A. but this not essential, although O.N.C. in building is the minimum acceptable qualification. Applicants should have experience in foundation work, drainage and factory buildings. Permanent position and attractive salary. Assistance with housing given if necessary. Write in confidence to Personnel Manager, Michelin Tyre Co. Ltd., Stoke-on-Trent, Staffs., giving all relevant information. 9715

QUANTITY SURVEYING. Simon Carves Ltd. have a vacancy for a **TAKER-OFF**. Applicants should have had professional experience where the London Method is employed and the Standard Method of Measurement followed. Excellent scope and working conditions, a five-day week and pension scheme are in operation. Brief relevant details and salary required should be sent to Staff & Training Division, quoting ref. ET69, Simon-Carves Ltd., Cheadle Heath, Stockport. 9714

VIC HALLAM LTD. require a Staff Architect. Responsible and permanent position with extremely good prospects for the right man. Only applicants who have had practical experience and possess keen interest in contemporary prefabrication considered. Applications giving details of training, experience, previous appointments and availability should be sent to: The Secretary, Vic Hallam Ltd., Langley Mill, Near Nottingham. 9709

CROYDON: SENIOR ARCHITECTURAL ASSISTANT required. Age about 30. Salary up to £750 p.a., according to qualification and experience. Interesting varied private practice. Good opportunity for man with initiative. Box 9707.

JUNIOR ARCHITECTURAL ASSISTANT required in Croydon office for varied private practice. Good opportunity. Write stating age, experience and salary. Box 9708.

ARCHITECTURAL ASSISTANT required by East Lancashire Brewery Company. Licensing work experience an advantage. Staff Pension Scheme. Write full particulars to Box 9712.

DRAUGHTSMEN required for busy London Office. Pleasant atmosphere, excellent opportunities for extending experience. Full particulars and salary required to Eric Ambrose, F.R.I.B.A., 55, Pall Mall, S.W.1. 9711

ARCHITECTURAL ASSISTANTS (One **SENIOR**, one **INTER.** or advanced **JUNIOR**) required in N.W. Lancs. office. Interesting long-term programme of Schools, Church and Domestic work offering scope for initiative under agreeable working conditions. Good and progressive salaries will be offered to keen and capable candidates. Good draughtsmanship and sound constructional knowledge essential qualifications. Details of training, qualifications, experience and age, please. Box 9710.

LEWIS BERGER (GREAT BRITAIN) LTD. Manufacturers, require **ARCHITECTURAL REPRESENTATIVES** in the London area. The work will involve calling upon and servicing Architects and Building Contractors. Age 25-40, with good educational and sales background, strong personality and ambition to make progress, previous experience in the trade is an advantage. Ability to sell in a highly competitive market essential. Good commencing salary. Please reply in confidence, to the Personnel Officer, Morning Lane, Homerton, E.9. 9713

RONALD WARD & PARTNERS require several capable **ARCHITECTURAL ASSISTANTS** with contemporary outlook and willing to use own initiative. Salary range £400 to £800. Interesting and varied work, home and abroad. Congenial working conditions. Apply 29, Chesham Place, S.W.1. Telephone Belgraveia 3361. 9703

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required for busy general practice. Commencing salaries £520 to £750 p.a., according to experience and qualifications. Apply H. N. Jepson & Partners, Chartered Architects, Midland Bank Chambers, Nuneaton. 9759

ARCHITECTURAL ASSISTANTS of Final and Intermediate standard required in private practitioner's office, Glasgow. Apply stating age, experience and salary required. Box 9740.

APPLICATIONS are invited from suitably qualified and experienced persons for the posts of **SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS** in the London Office of this Organisation. Applicants must be first class draughtsmen possessing a sound knowledge of construction, materials and contemporary design. Duties will be concerned with large scale housing and multi-storey flat design and layout, industrial, educational and civic buildings. Salary in accordance with experience and ability. Requests for form of application to Kendrick Findlay & Partners, Chartered Architects, 35, Tavistock Square, W.C.1. 9741

MORRIS DE METZ, F.R.I.B.A., requires **ARCHITECT'S ASSISTANT** at a salary of approximately £700 per annum, according to ability. Interesting work, five day week. Telephone City 4086. 9737

OLDHAM, Lancs. ARCHITECT required by firm of Chartered Surveyors, to take charge of housing and commercial work. Apply stating age, experience, qualifications, and salary required to Box 9743.

ARCHITECTURAL ASSISTANT (SENIOR) fully qualified, required immediately in busy London Architect's office. Must be experienced in preparation of working drawings, details, supervision of commercial and other buildings in course of construction. Write, giving details of experience, salary required, when free. Box 9756.

EXPERIENCED ASSISTANT of Intermediate standard required immediately in busy London Architect's office. Write giving details of experience, salary required, when free. Box 9757.

LANCHESTER & LODGE urgently need **ARCHITECTURAL ASSISTANTS** of all grades up to £700, 5-day week, luncheon vouchers. Write full particulars: 10, Woburn Square, W.C.1. 9753

ARCHITECTS' Co-Partnership require **ASSISTANT** for working drawings and detailed design. Salary according to experience. Qualified **ASSISTANT** also required. Office doing work in U.K. and West Africa. Telephone Langham 5791, or write 44 Charlotte Street, W.1. 9752

LANCHESTER & LODGE urgently need an **ASSISTANT** to work on site of University projects in Leeds. Salary up to £700. Write full particulars: 10, Woburn Square, W.C.1. 9754

IMPERIAL CHEMICAL INDUSTRIES LIMITED has a vacancy in its London offices for a **SENIOR ASSISTANT ARCHITECT**. Candidates must be members of the R.I.B.A. and be capable of taking charge of a group of Architects. They must have had experience in the design and construction of offices, laboratories, warehouses and industrial buildings. Applications stating age, present position and salary, should be forwarded to Head Office & Regions Staff Department (GDC) Imperial Chemical Industries Limited, I.C. House, Millbank, S.W.1. 9751

ARCHITECTURAL ASSISTANTS required, one about Inter. standard, one qualified, in office in Victoria district, to work direct under Principal. Church work, domestic, factory, hotel, etc. Salary in accordance with experience. Box 9749.

ARCHITECTURAL ASSISTANT, 35/40 years, to take charge of drawing office, large commercial organisation. Apply in first instance to: A. E. Thornton-Firkin & Partners, Quantity Surveyors, 17, Fitzhardinge Street, Portman Square, W.1. 9747

ARCHITECTURAL ASSISTANTS required immediately, minimum Inter. standard. Reply with full details to Rossington & Fodden, Drake Road, Tavistock, Devon. 9735

ARCHITECTURAL ASSISTANT required for general practice. Varied but straightforward work. Salary by arrangement. Paid holidays this year. Gratuity Scheme, Eley & Rickford, 83, Powis Street, Woolwich, S.E.18. 9734

ARCHITECTURAL ASSISTANT required by Sussex Brewery Company, about A.R.I.C.S. final standard, must be good draughtsman and capable of writing specifications for alterations and have a good practical knowledge. Apply Box 9718 stating salary required.

ARCHITECTURAL ASSISTANT required immediately for London Brewery. Must be good Draughtsman with sound knowledge of construction. Superannuation scheme. Please reply, giving details of experience and training with salary required to Box 9720.

LONDON FIRM has vacancy for experienced **GROUP LEADER**. Salary £1,200 p.a. Write in confidence with full particulars of career to Box 9731.

GOLLINS, MELVIN, WARD & PARTNERS, Manchester Square, W.1, require **JUNIOR STAFF**, competent working drawings essential, opportunity to work on contemporary buildings. Write or telephone WELbeck 9991. 9729

W. H. WATKINS, GRAY, F.R.I.B.A., & Partners require experienced **ASSISTANTS** of intermediate standard for interesting hospital work. Pension scheme in operation. Reply giving full particulars and salary required to 57, Catherine Place, S.W.1. 9730

ARCHITECTURAL ASSISTANT required, intermediate to final standard. Write giving full particulars of previous experience and salary required, to Graham Crump & Denis Crump, F.A.R.I.B.A., 43, George Street, Croydon 5-day week. 9728

ARCHITECTURAL ASSISTANT required; Intermediate standard or above. Small city office. Five-day week. Box 9727.

ARCHITECTURAL ASSISTANTS required, London Office. State experience and salary required. Box 9724.

H. NEWSUM, SONS & CO. LTD., of Lincoln have the following vacancy in their Housing Department:—
ARCHITECTURAL ASSISTANT, preferably about intermediate standard. Previous experience in prefabrication or timber housing desirable but not necessary. It is essential to have a contemporary outlook on the design of buildings and a keen interest in prefabrication. Salary commensurate with age and experience. Apply in writing, giving details of past experience, age, etc., to the Housing Director. 9813

BELFAST firm of Architects require a competent **ARCHITECTURAL ASSISTANT** for varied and interesting work. Salary £500 to £650. Reply giving particulars to Box 9810.

THE Site Survey Company, London, S.E.3. has vacancies for first class **FIELD SURVEYORS** and **DRAUGHTSMAN**. 9608

CO-OPERATIVE WHOLESALE SOCIETY, LTD. ARCHITECTS' DEPARTMENT, LONDON.

APPLICATIONS are invited from the following:—

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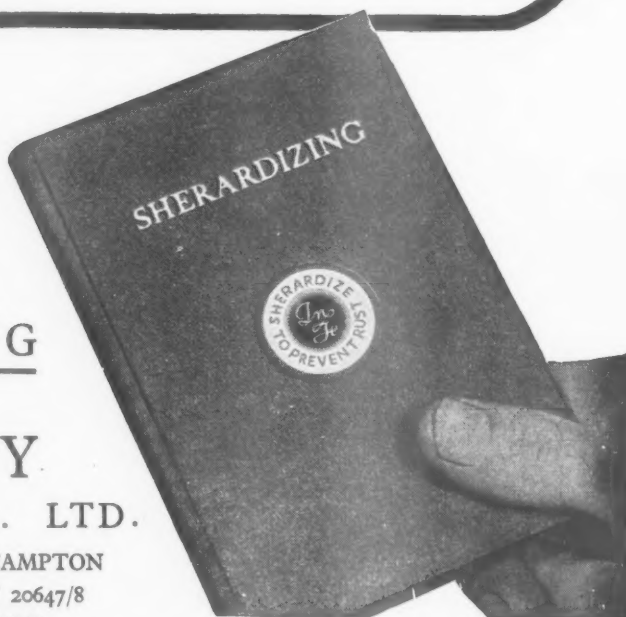
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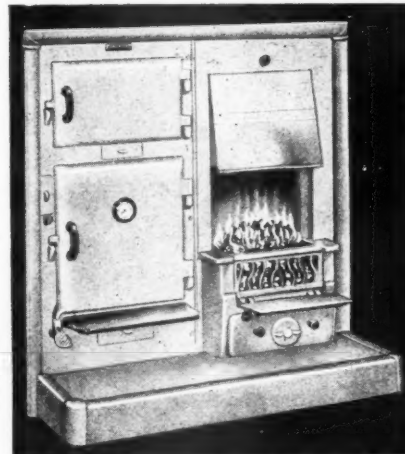
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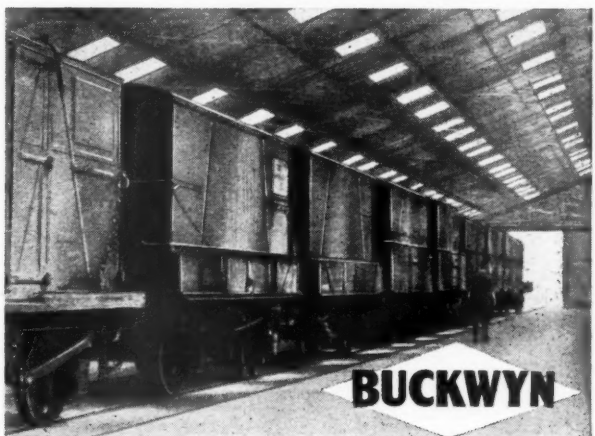
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