

THE ARCHITECTS' JOURNAL



standard contents

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

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

IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.	Sloane 3158/1601
IIBD	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects. 12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197/5176
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
IWA	Inland Waterways Association. 11, Gower Street, W.C.1.	Museum 9200
LIDC	Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1.	Whitehall 7264/4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM). Secretary: Gontran Goulden, Building Centre, 9, Conduit Street, W.1.	Mayfair 8641
MOA	Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education. Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health. Whitehall, S.W.1.	Whitehall 4300
MOLGP	Ministry of Local Government and Planning. 23, Saville Row, W.1.	Regent 8411
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport. Berkeley Square House, Berkeley Square, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters. 9, Victoria Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers, 10, Princes Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers. 82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4451
NFHS	National Federation of Housing Societies. 13, Suffolk Street, W.1.	Whitehall 1693
NHBR	National House Builders' Registration Council. 82, New Cavendish Street, W.1.	Langham 4341
NPL	National Physical Laboratory. Head Office, Teddington.	Molesey 1380
NSA	National Sawmilling Association. 14, New Bridge Street, E	City 1476
NSAS	National Smoke Abatement Society. Chandos House, Buckle Street, W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anne's Gate, W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5721
RICS	Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1.	Whitehall 5322/9242
RFAC	Royal Fine Art Commission. 22a, Queen Anne's Gate, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSI	Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House, Grosvenor Gardens, S.W.1.	Victoria 2186
SCR	Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers. 17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association. 14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984
SNHTPC	Scottish National Housing. Town Planning Council. Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TGC	The Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 69, Cannon Street, E.C.4.	City 4444
WDC	War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association. 74, Victoria Street, S.W.1.	Victoria 5783
ZDA	Zinc Development Association. Lincoln House, Turl Street, Oxford.	Oxford 47988

No. 2940]

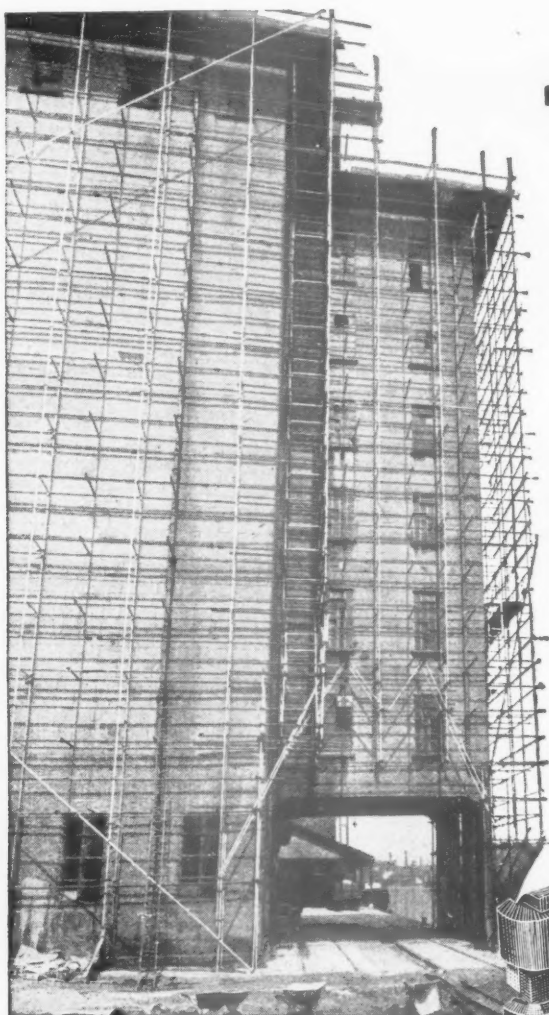
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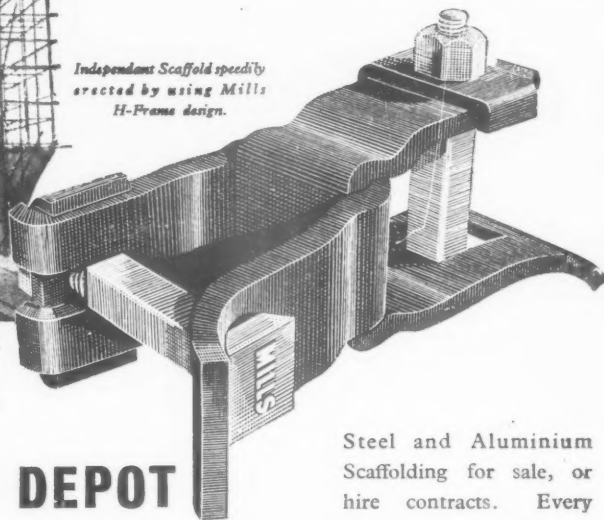


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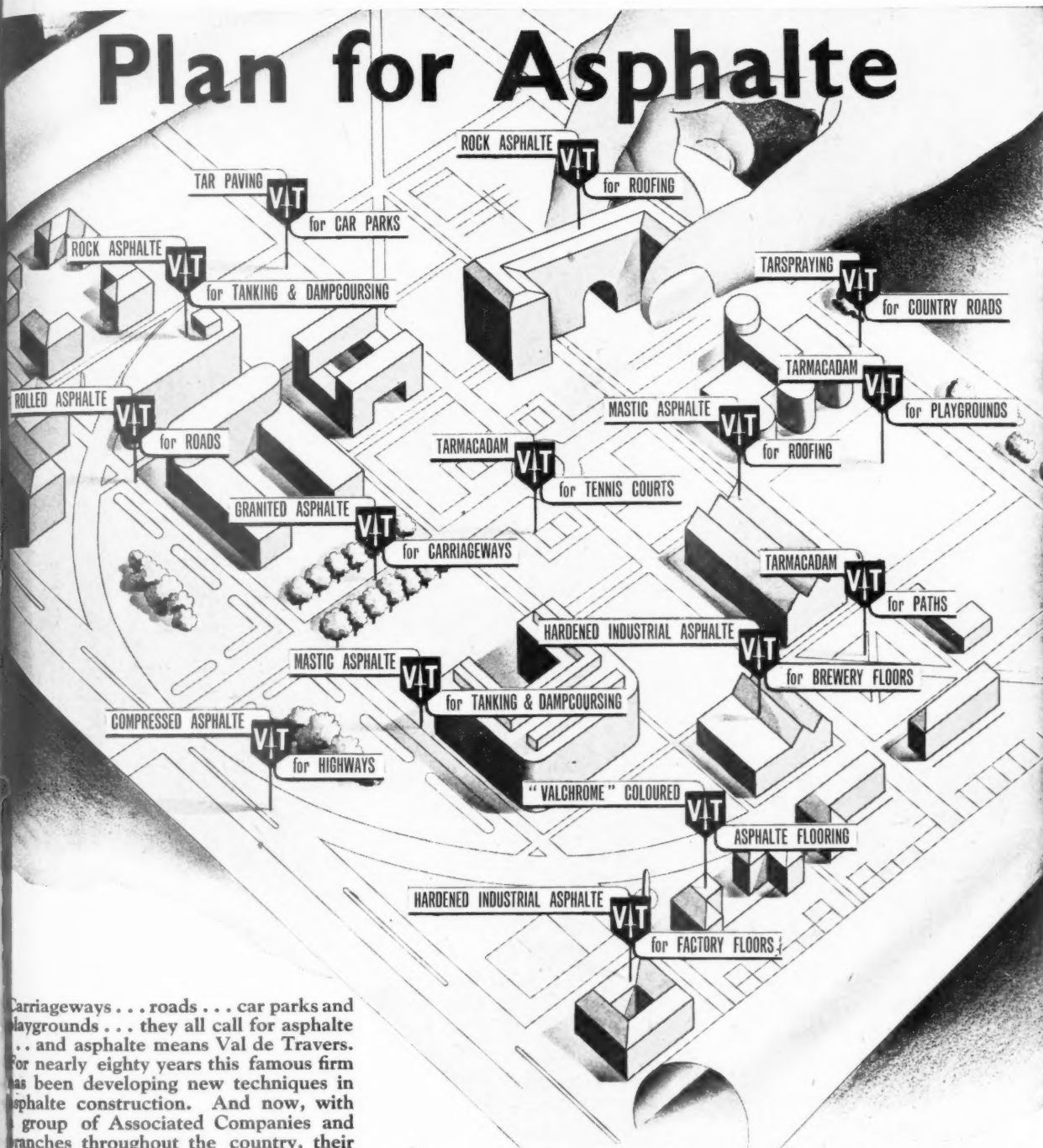
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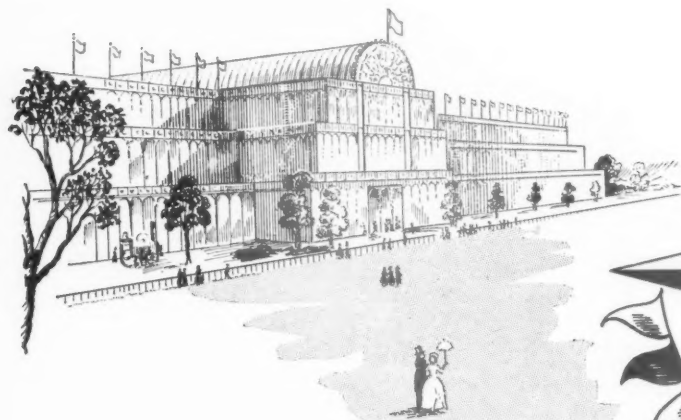
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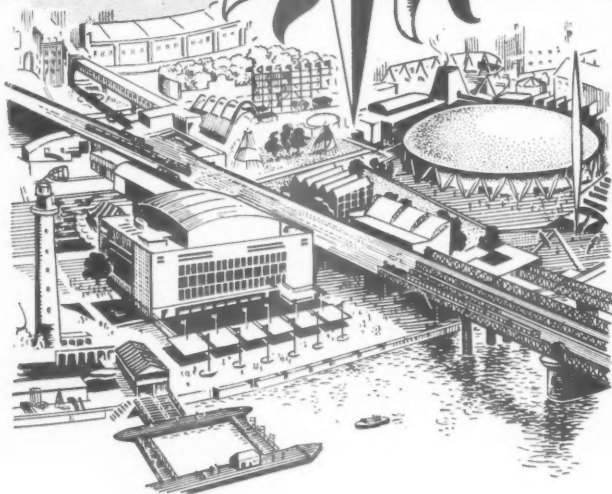
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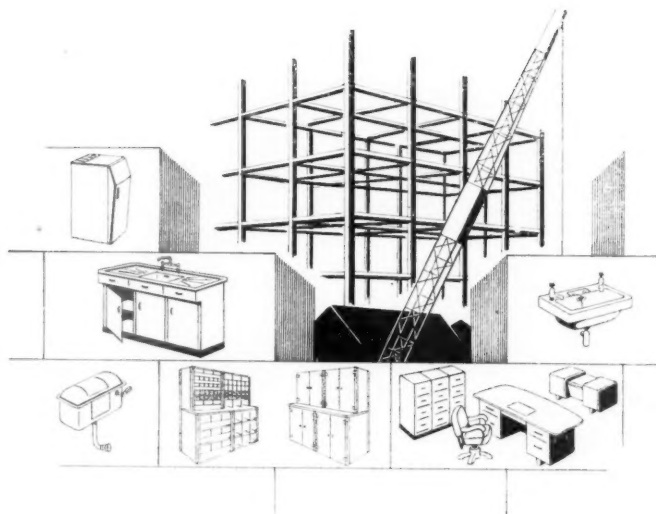
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Hudson Brown Ltd., Oldbury, Worcs. Structural steelwork.

Invicta Electrodes Ltd., Willenhall, Staffs. Arc-welding electrodes.

Nuts & Bolts (Darlaston) Ltd., Darlaston. Nuts and bolts, railway fastenings.

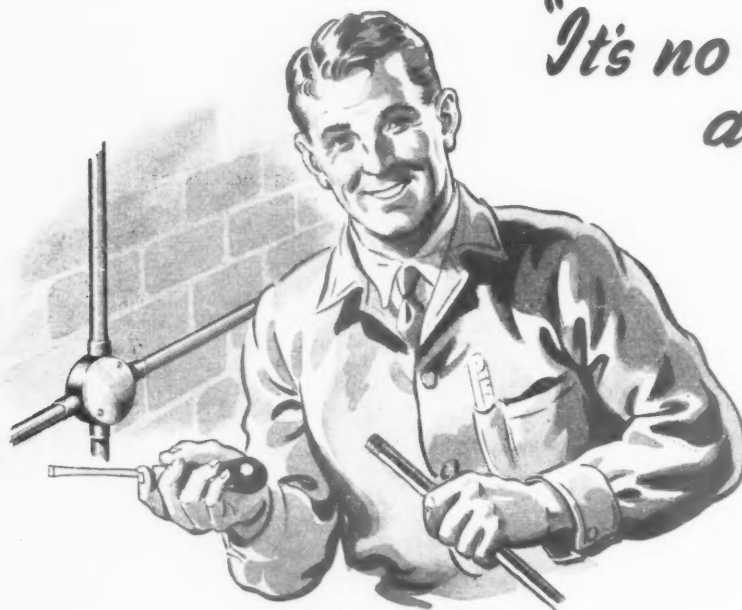
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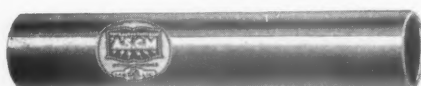
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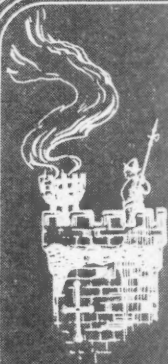


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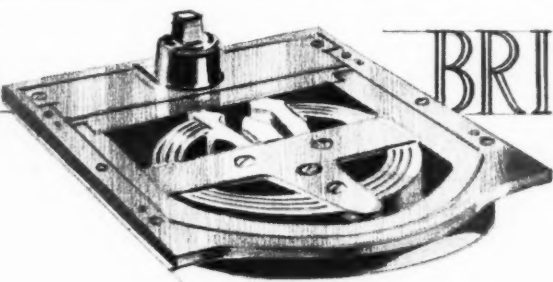


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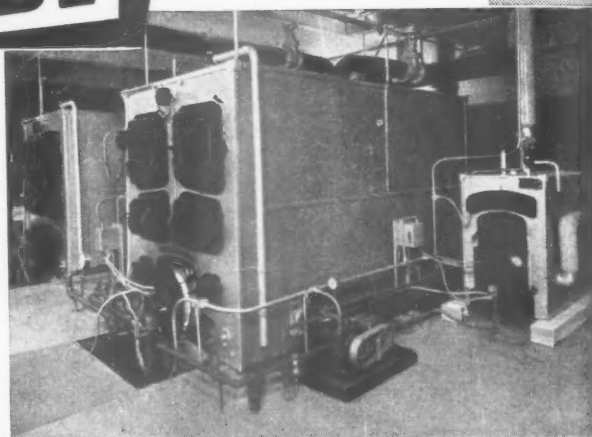
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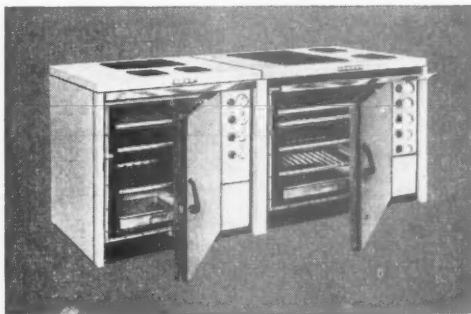
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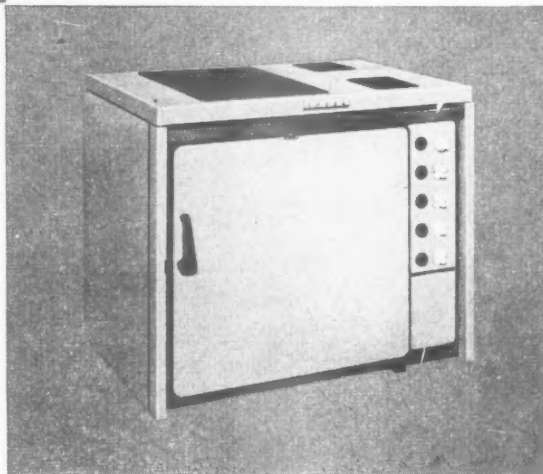
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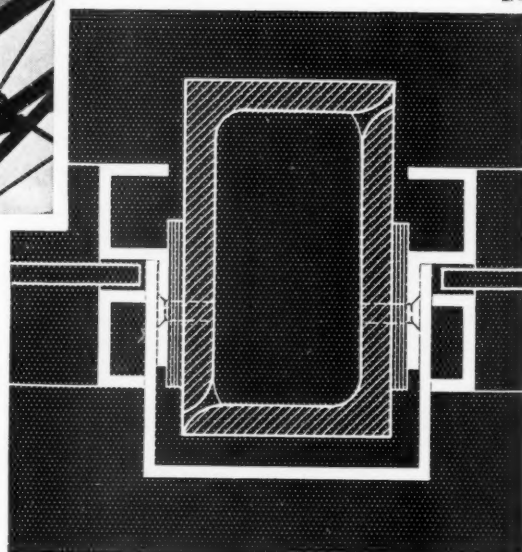


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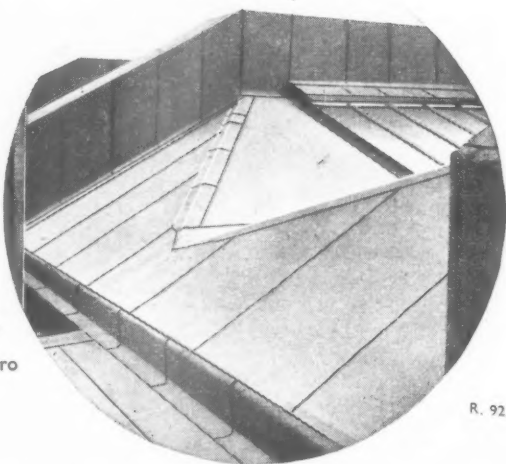
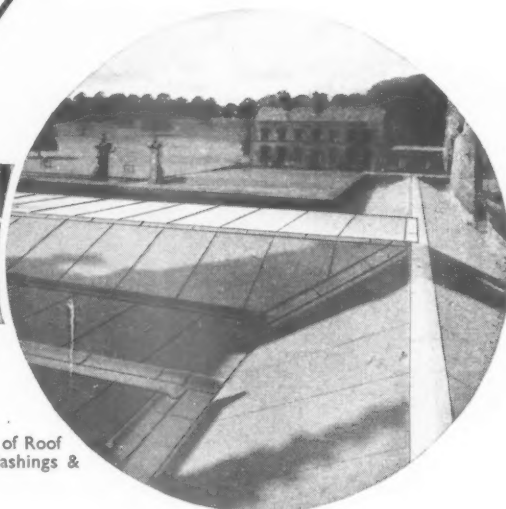
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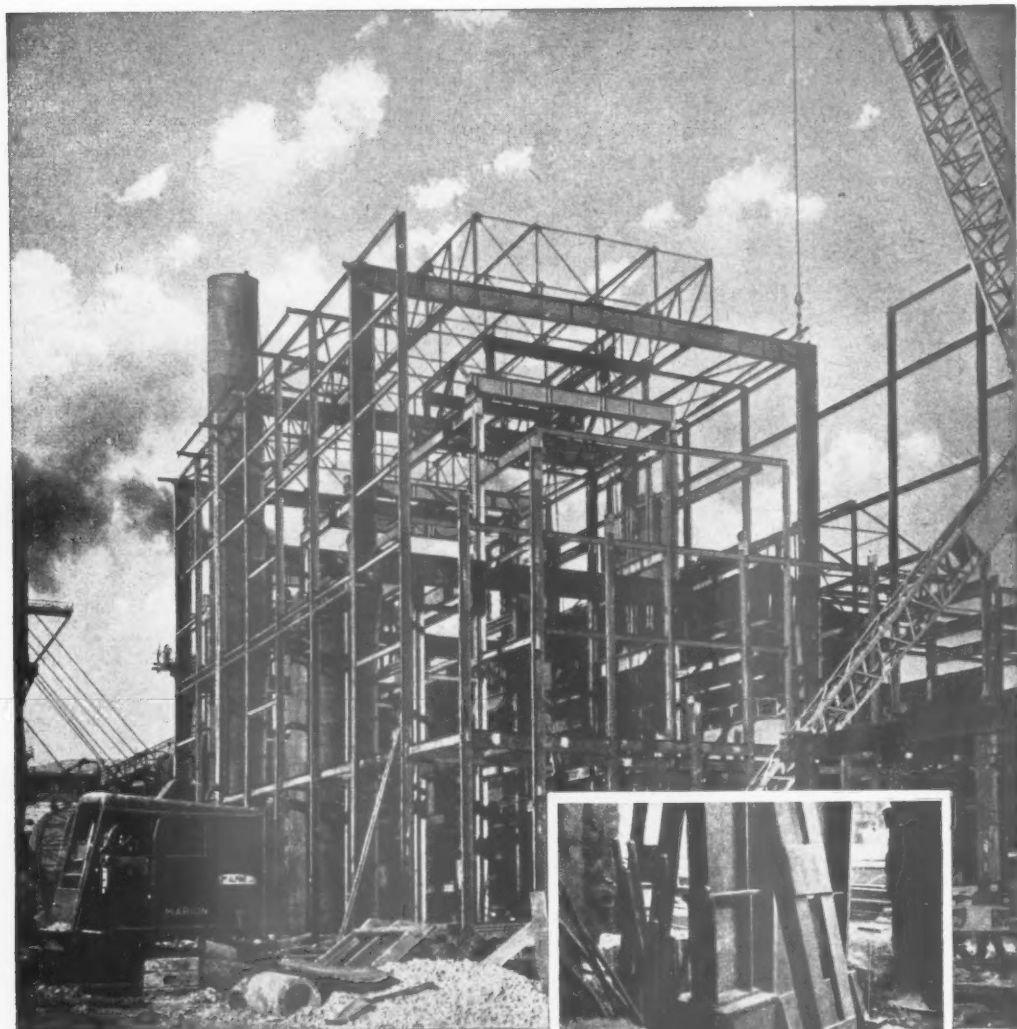
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The illustration shows SISALKRAFT 60/60 (heavy) grade Reinforced Waterproof Building Paper used for sarking under random slating, as specified.

Photograph by courtesy of Robert H. Matthew, Esq., A.R.I.B.A., Architect to the Council, and Frederick Gibberd Esq., F.R.I.B.A., M.T.P.I., Appointed Architect. Contractors: Leslie & Co. Ltd. Roofing Contractors: E. F. Williams, Ltd.

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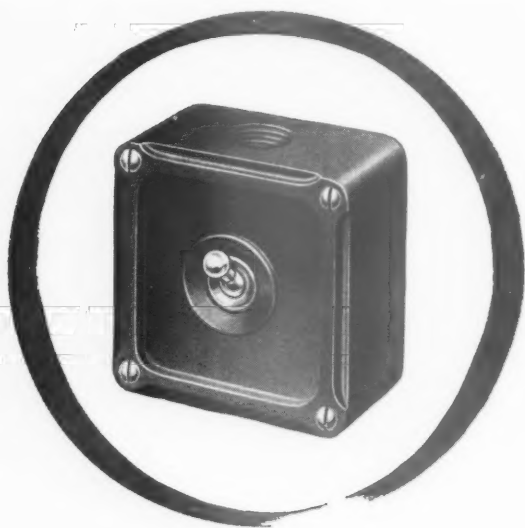
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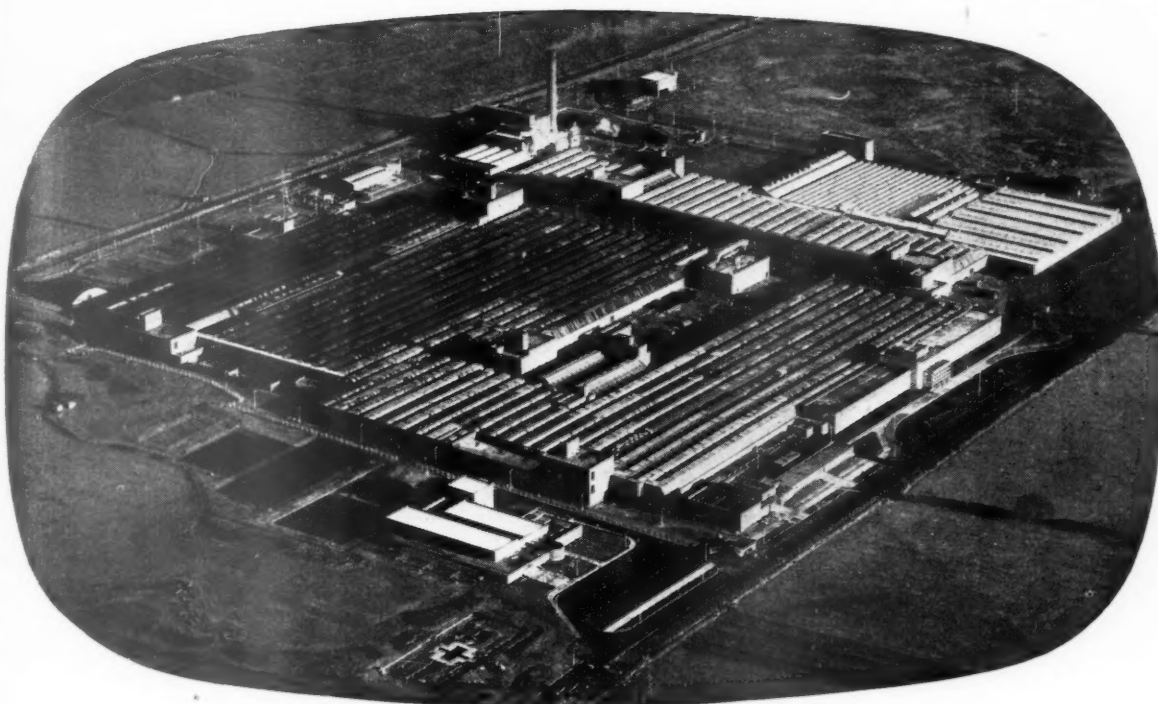
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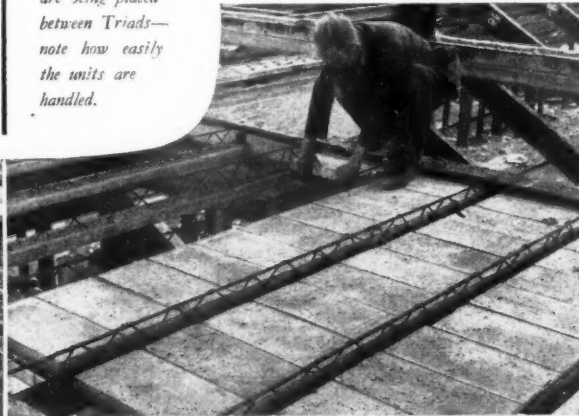
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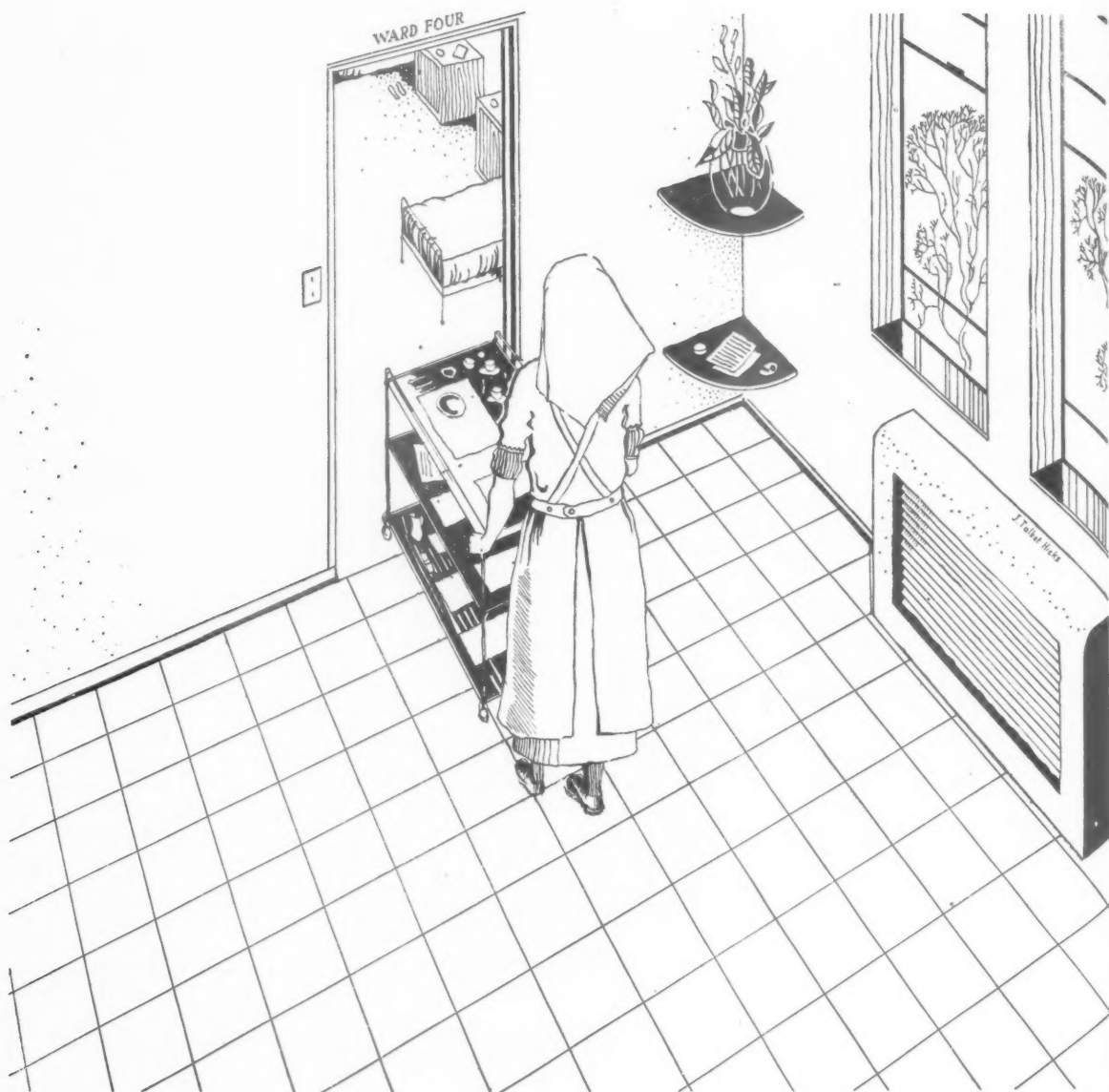
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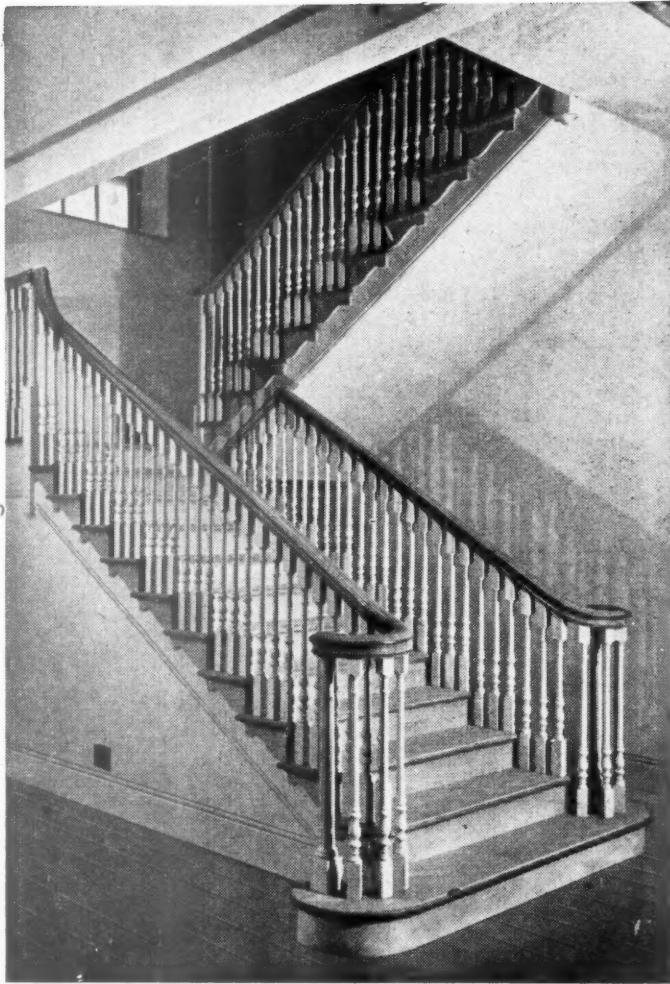
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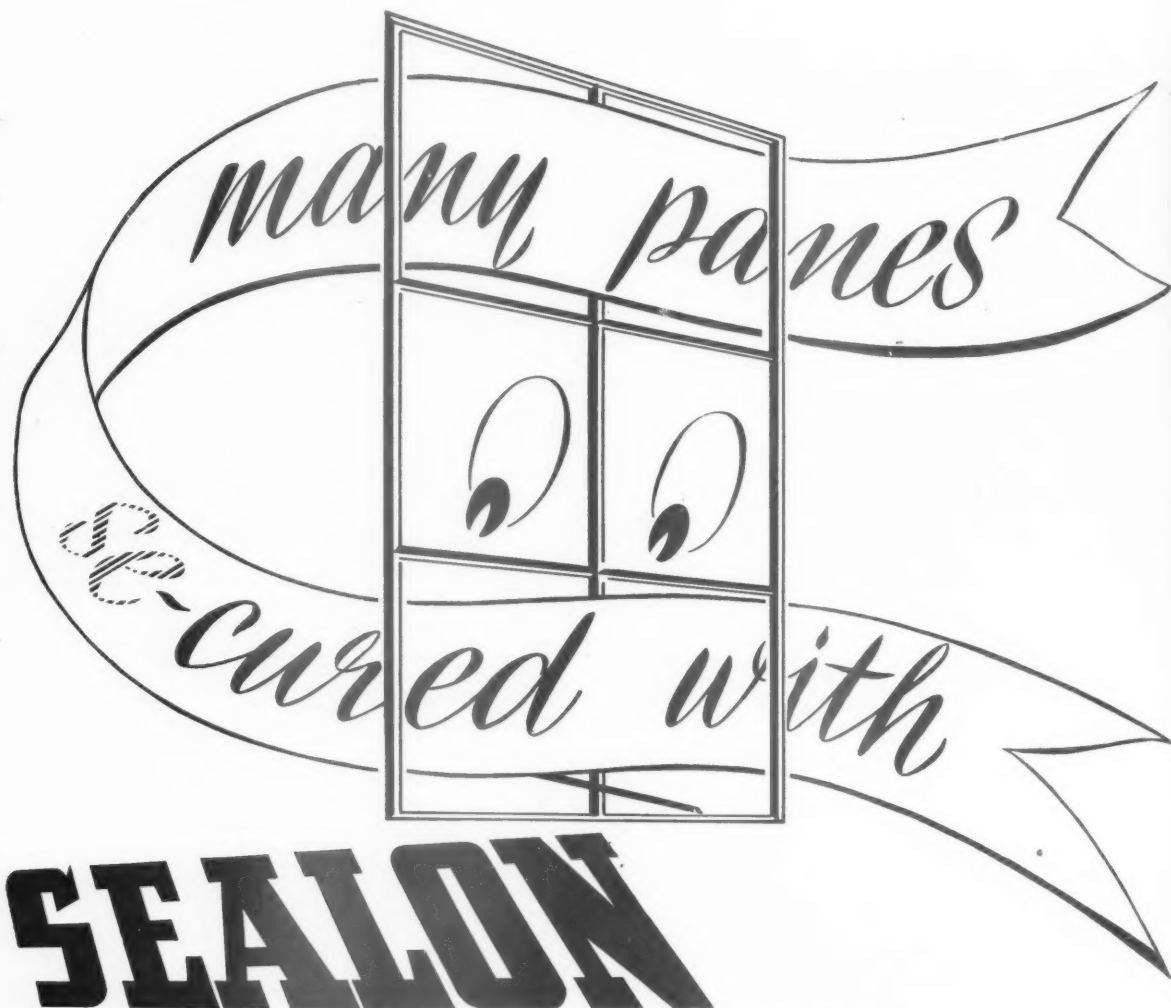


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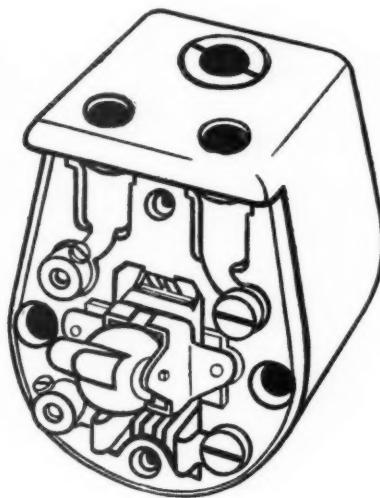
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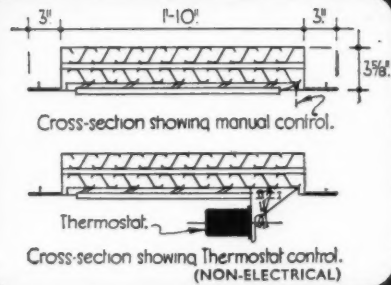
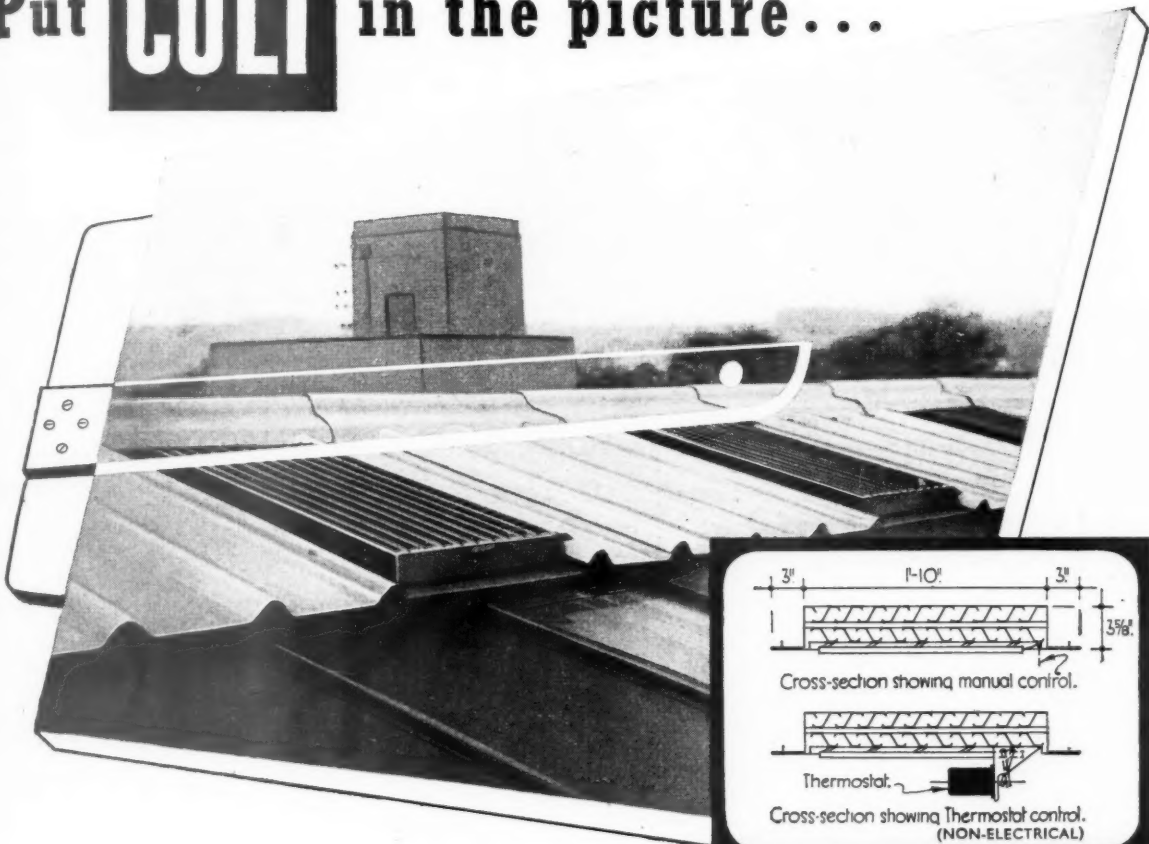
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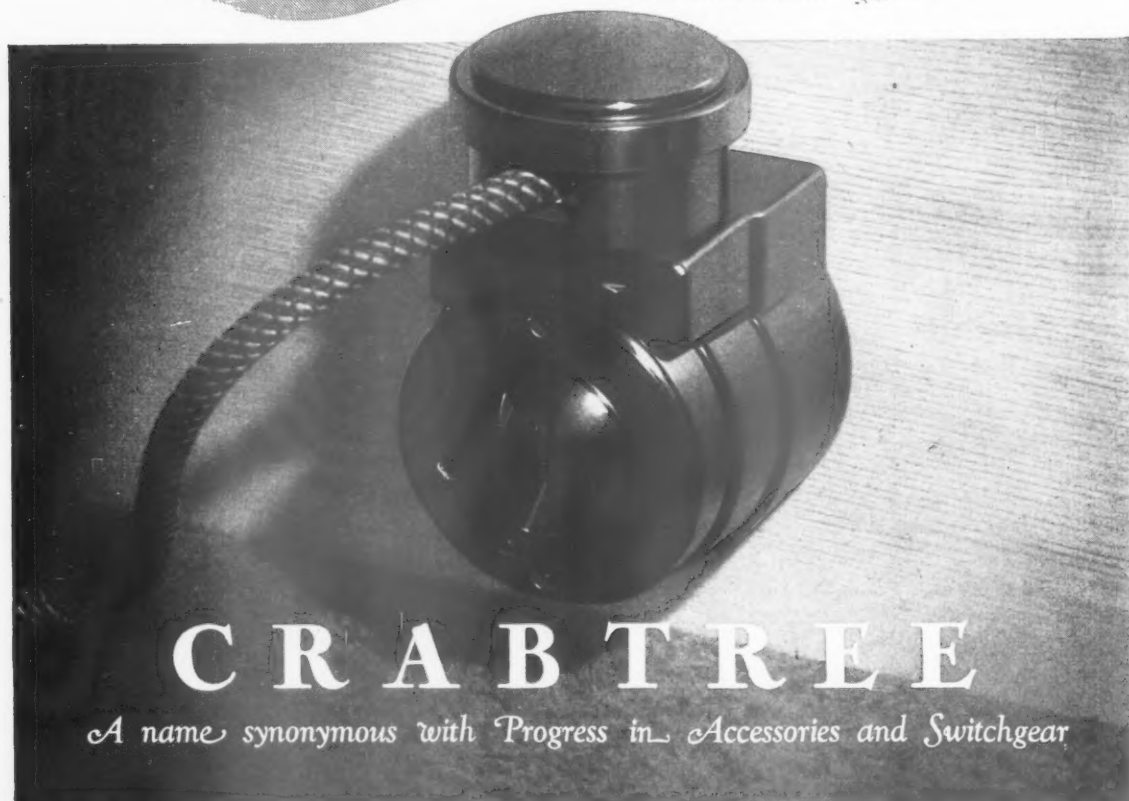
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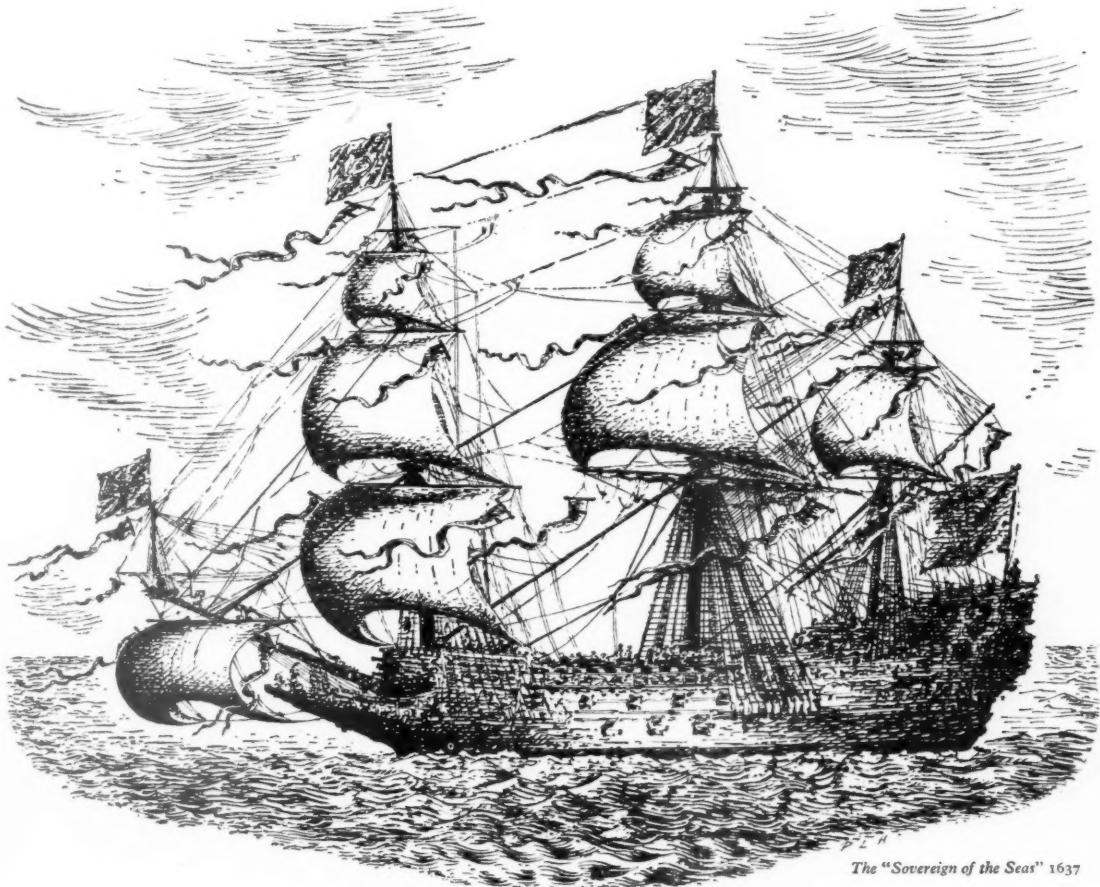
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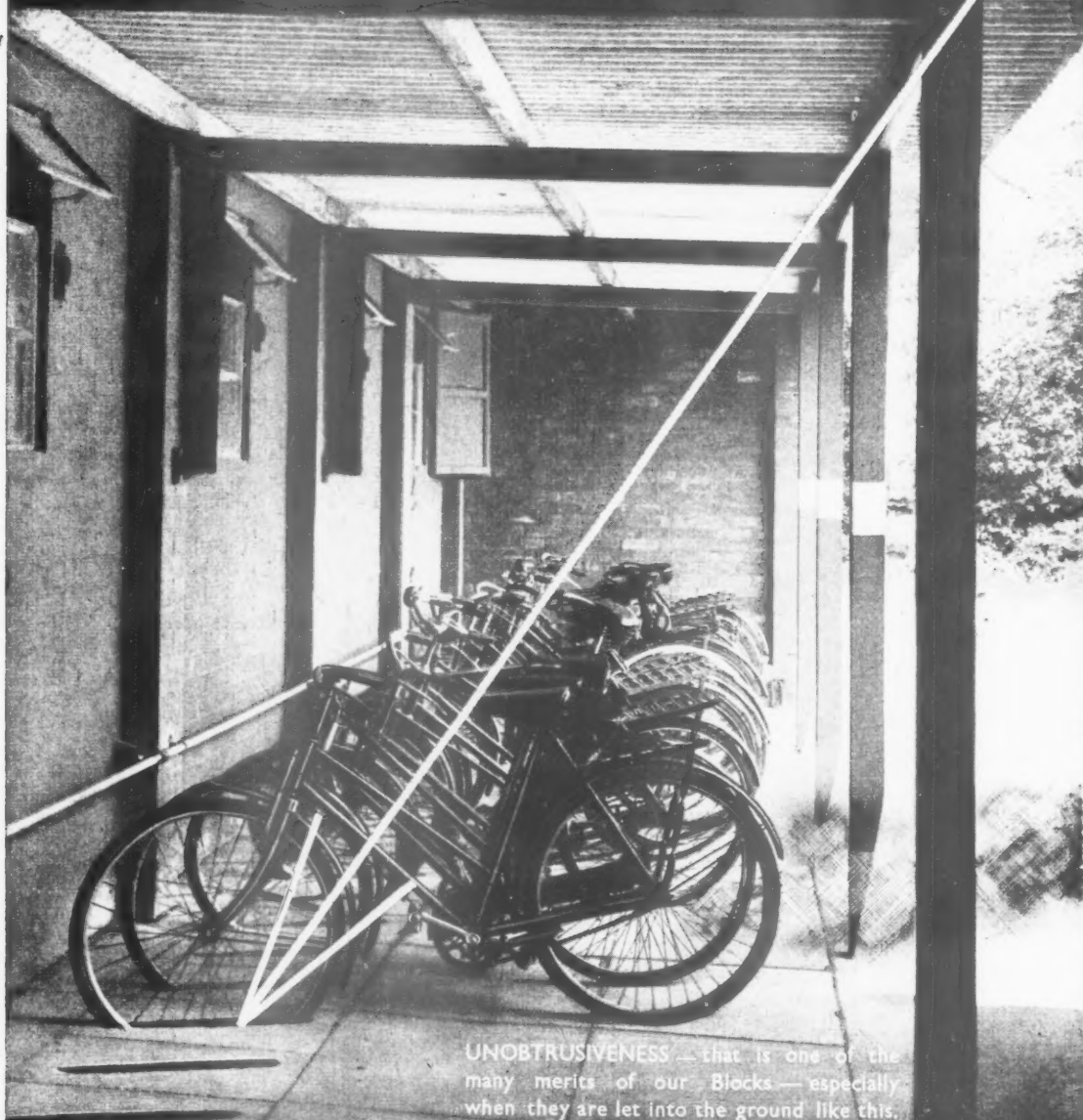
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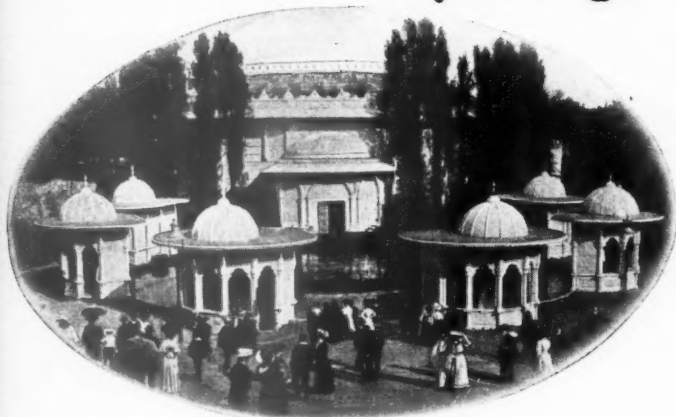
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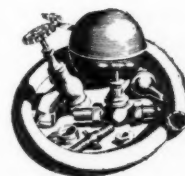


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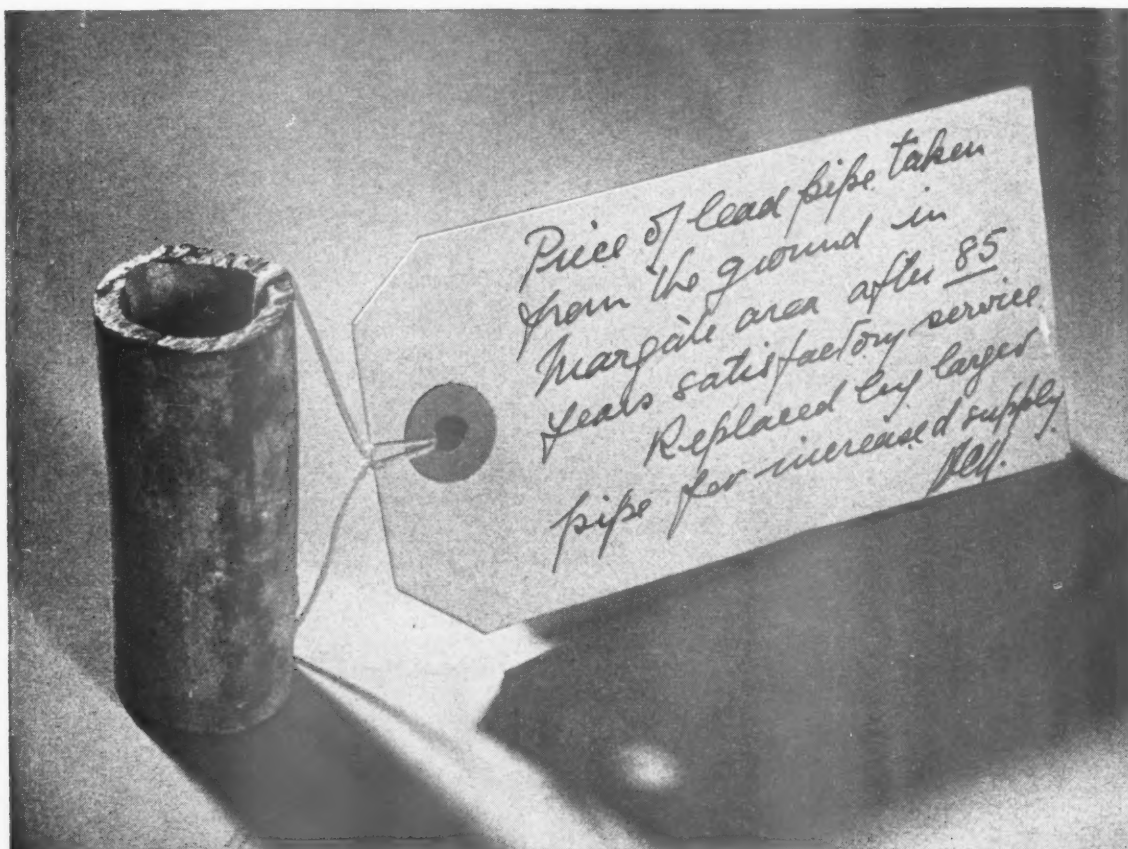
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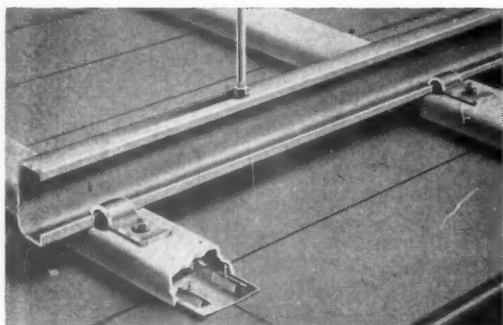
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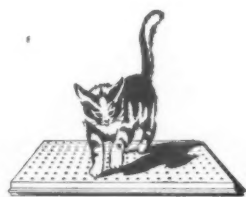
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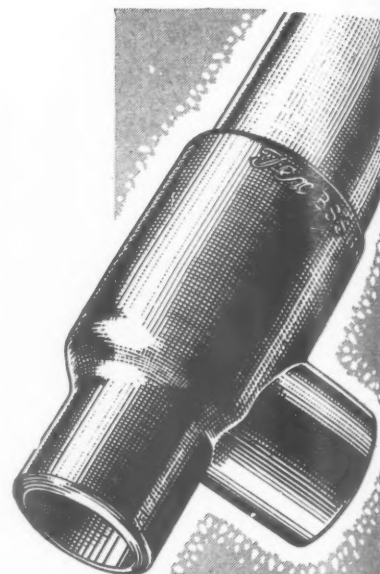
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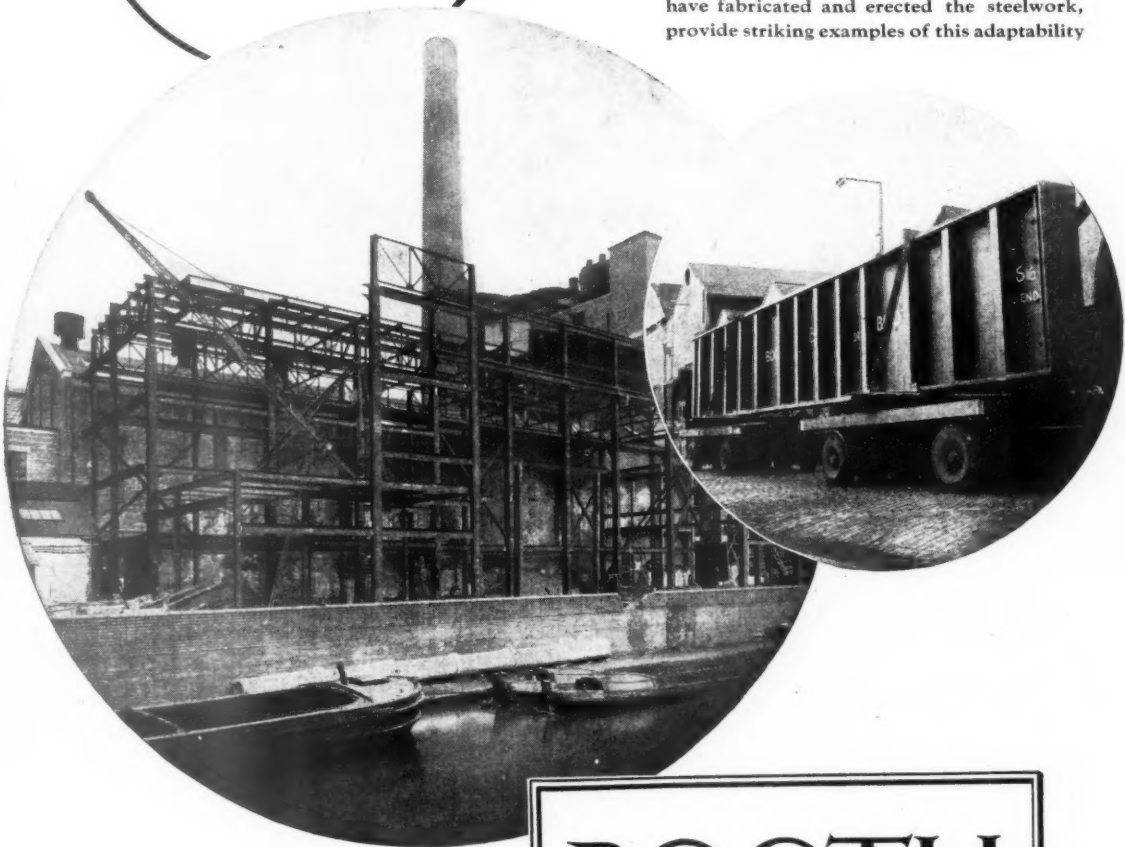
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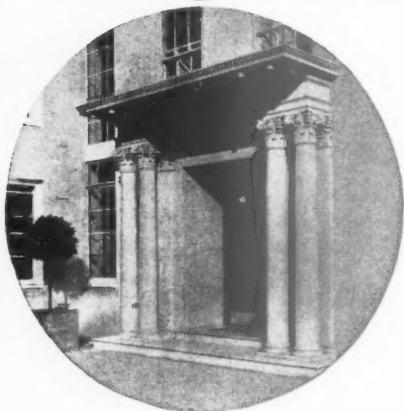
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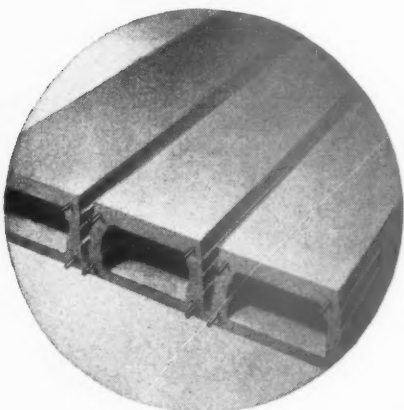
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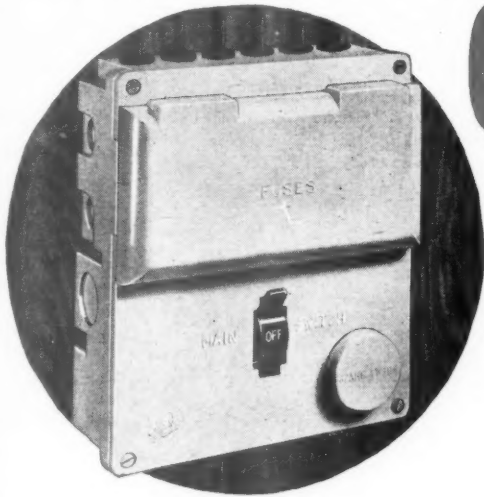
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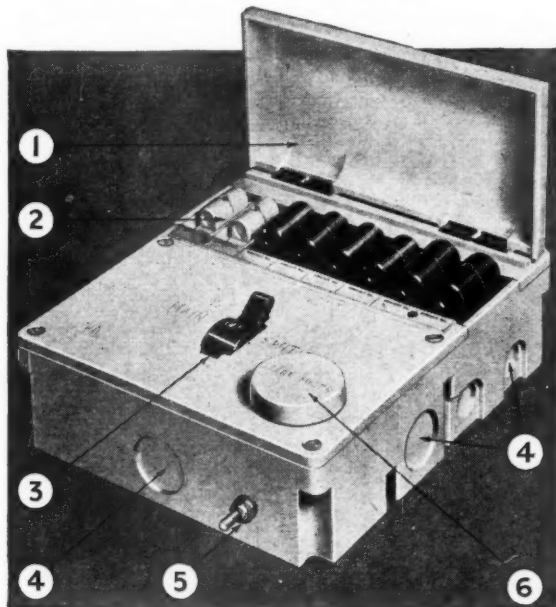
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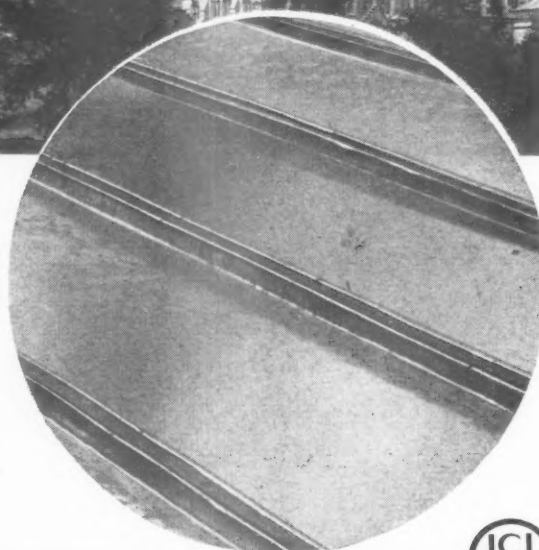


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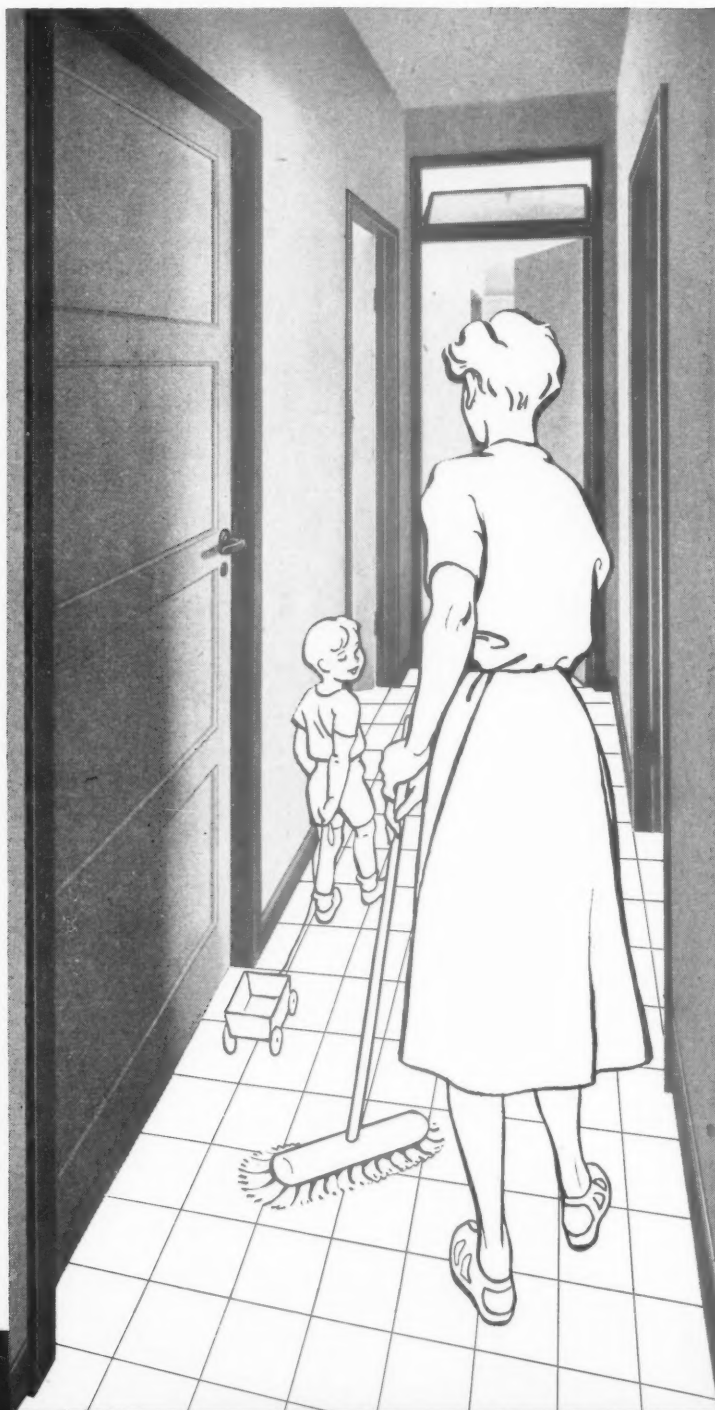
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Dunlop Rubber Co., Ltd., announces that the
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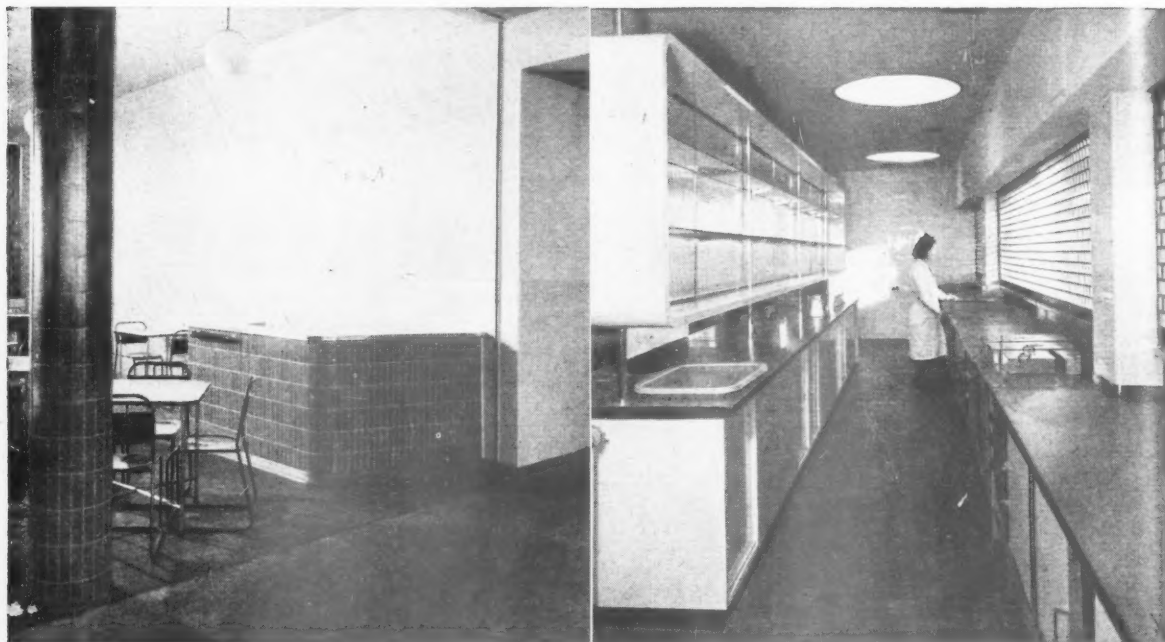
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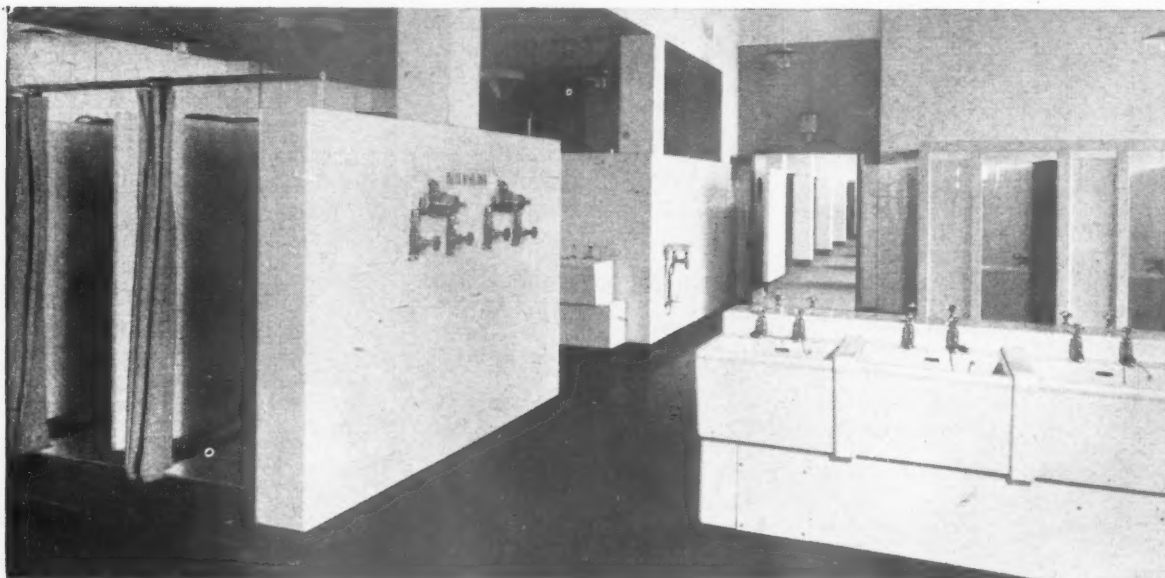
ISE/C74



"Architects' Journal" photograph.

6" x 2" turquoise blue eggshell glazed tiles fixed to counter fronts, and similar tiles but made radiated on the circular columns in Main Canteen.

6" x 6" Dorset Red floor tiling, 6" x 6" cream glazed tiles to walls and column in Service area.



Tiling in Bath House in 6" x 6" cream earthenware glazed with black glossy skirting tiles. The intermediate shower partitions are formed in 1½" thick precast tile slabs. Similar slabs have been used to form W.C. partitions in the same building. The door frames and lintels to the bathroom cubicles are in cream terrazzo, precast at the works of Art Pavements and Decorations, Ltd., Camden Town.

(Note slabbed access covers to pipe ducts underneath wash basins.)

CARTER tiling at Welfare Centre, Beckton Products Works, East Ham

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Contractors: Taylor Woodrow Construction Ltd.

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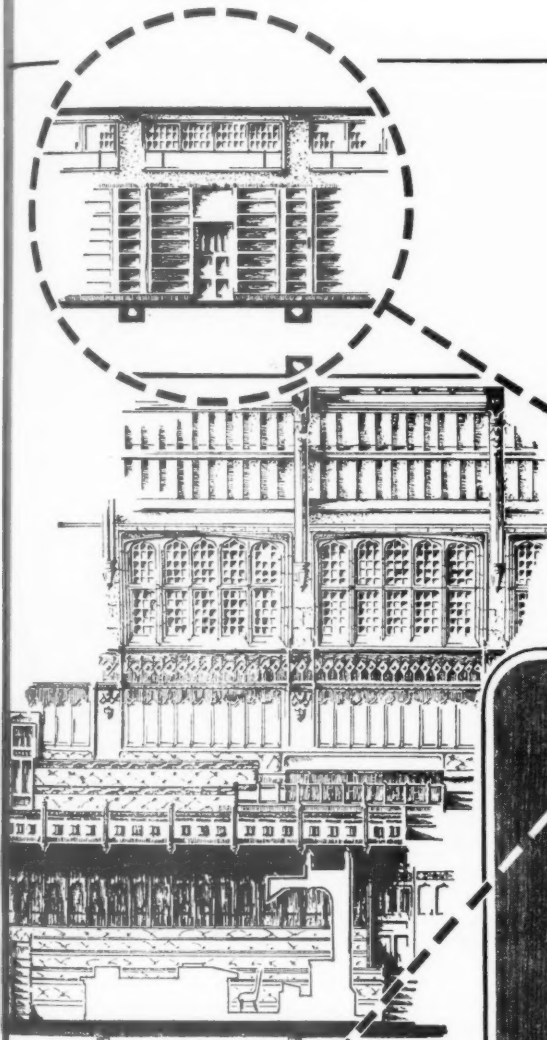
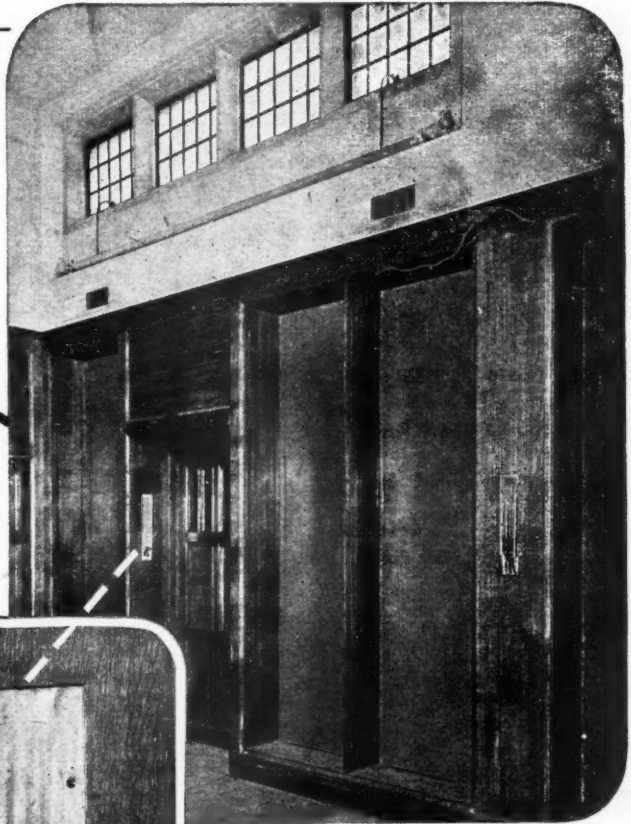
HOUSE OF COMMONS REBUILDING

for the Ministry of Works

ARCHITECT: Sir Giles Gilbert Scott, O.M., R.A.

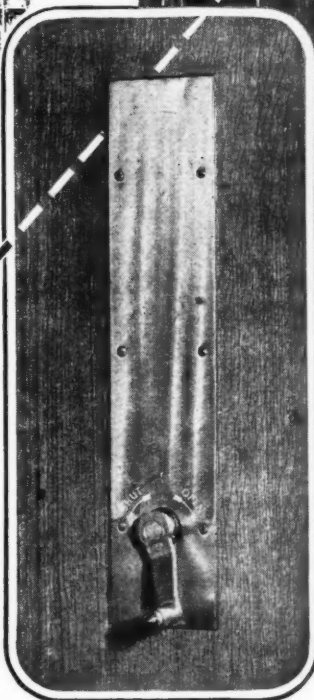
CONTRACTORS: John Mowlem & Sons Ltd.

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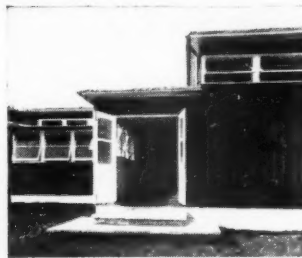
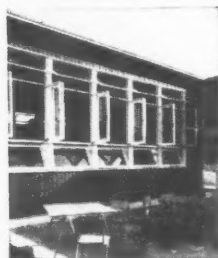
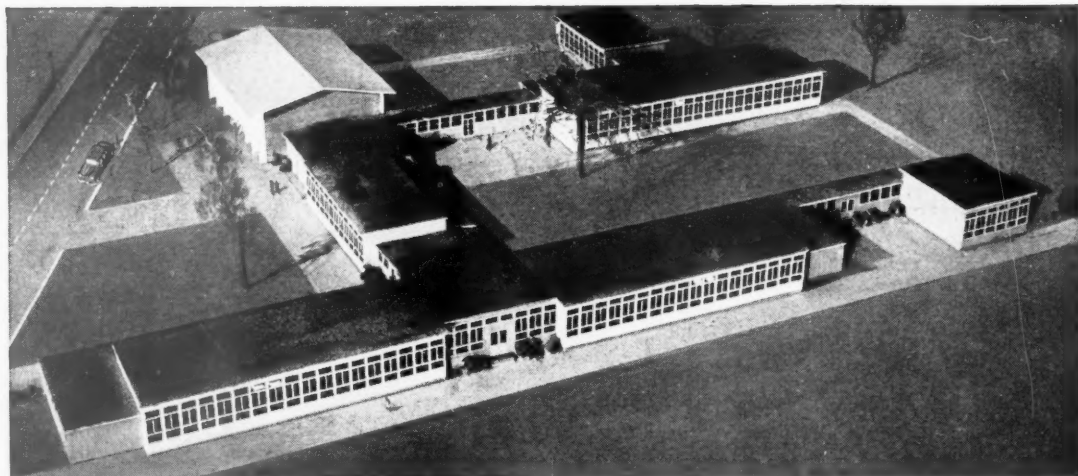
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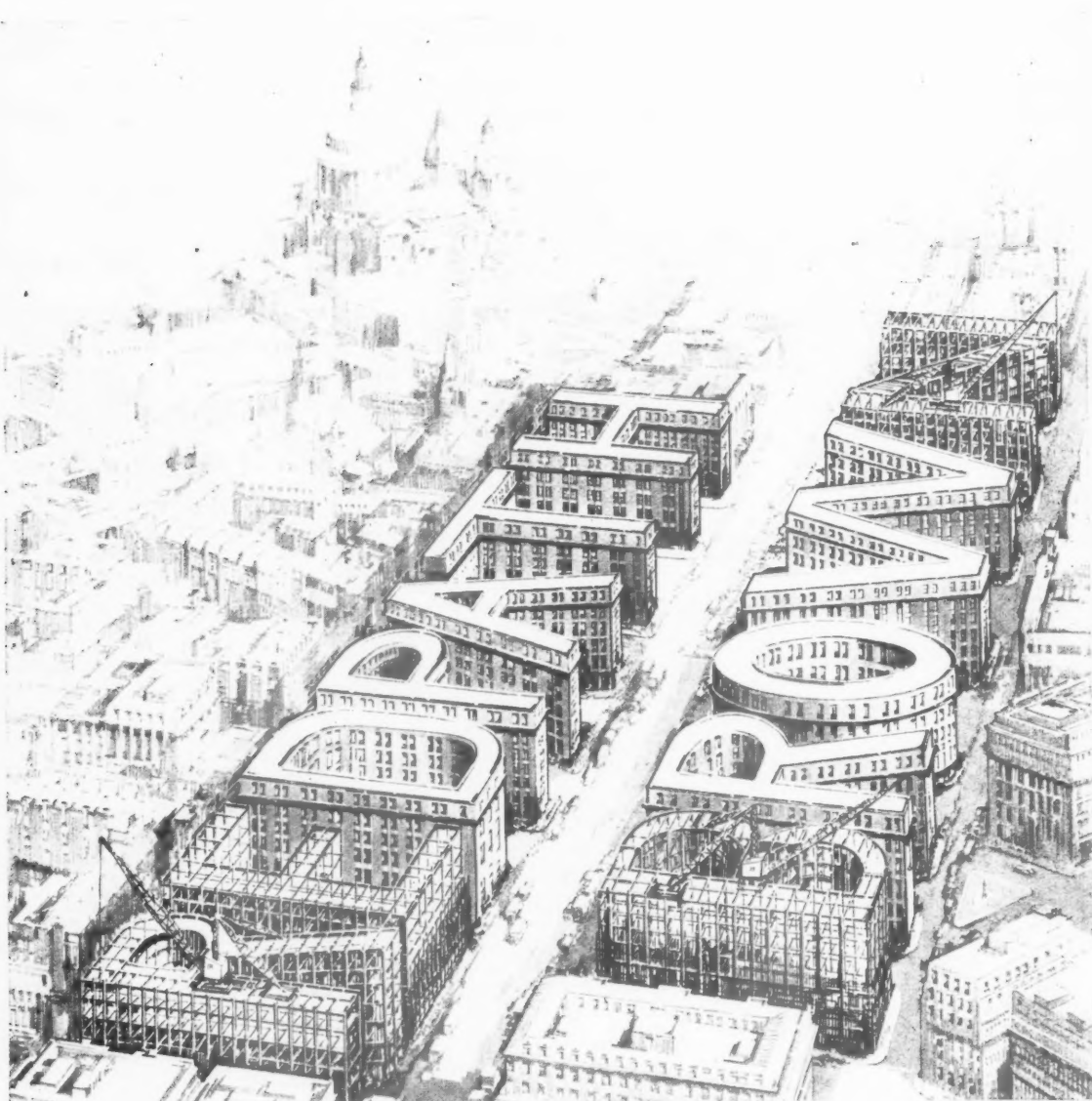
The photographs illustrate the Medway Mark III system of permanent school construction. Conforming in every way to Ministry regulations and standards, this flat roof system offers great flexibility in the planning of a school. For those who prefer a pitched roof there is the alternative Mark II system.

Medway prefabricated timber units enable permanent schools to be attractively designed and rapidly built with a minimum of site labour. The scheme is sponsored by the relevant Government Departments and the buildings are available to local Education Authorities without timber licence.

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THE ARCHITECTS' JOURNAL

No. 2940

5 JULY 1951 VOL 114

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MR. FORD COMES TO TOWN

O'Neil Ford, the Texas architect, who, as I write, is touring provincial architectural schools, lecturing on the floor-slab-lifting system which he has used so successfully in America, spoke last Thursday at the Waldorf Hotel, London, to an audience of nearly four hundred. Contrary to what might be expected, the audience did not consist only of students. Many well-known architects, engineers and builders were present to hear one of the most agreeable and amusing technical lectures given for many a year. Mr. Ford has a charming, witty, hot-gossiping manner which is very enjoyable to listen to, if, perhaps, rather unusual for the subject matter. Certainly, on this particular evening most of the audience were quite prepared to let Mr. Ford have it all his own way. At question time afterwards no one produced the awkward

queries which I trust, for the sake of the building industries' reputation, were on the tip of their tongues the morning after.

*

It is encouraging to hear from my editors that this lecture has already caused inquiries to be made for more details about the system. I'm too cautious to expect much in the way of concrete experiment from our slow-moving, conservative industry for some time, but I'm willing to bet that students will be jacking floor-slabs all over the country by next Christmas (on paper, of course, where most of the good ideas stay, in this country).

*

It is early to judge if Mr. Ford's lecture produces any good results. But one point arises which is worth making. No one in London would have heard this lecture save for the philanthropy of W. H. Colt (London) Ltd. The architectural and engineering societies turned it down through reasons of indifference, short notice, and refusal to sponsor a talk on a "commercial product." How absurd that a lecture by a visiting architect cannot be arranged in a few weeks. How footling that a good idea cannot be studied because it might be linked to a sales-curve. How splendid that there are still a few men left today who can cut red-tape and prevarication and are prepared to give an idea a hearing at whatever the cost.

*

Incidentally, it is not every day of the week one sees a managing director working a film and slide projector, either. The photograph on page 5 shows this unusual phenomenon. This firm's action in coming forward and offering to sponsor this lecture has my unqualified approval.

MOW IN THE COUNTRY

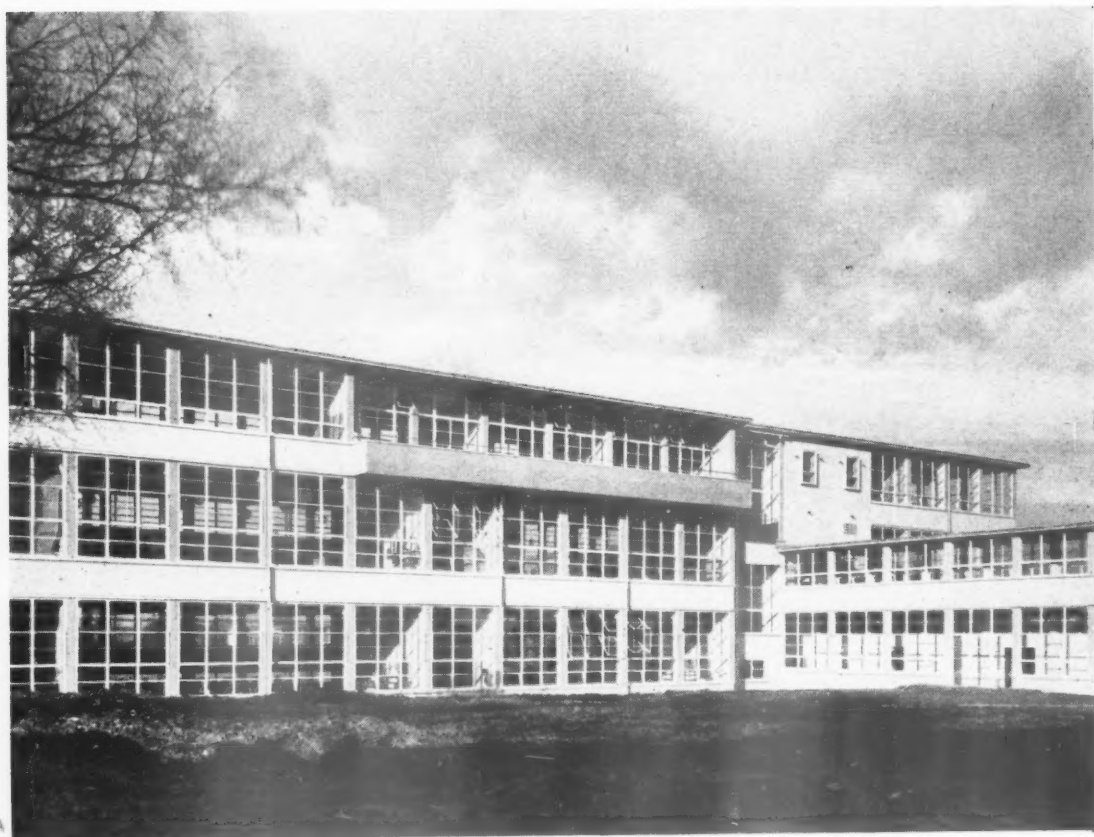
MOW's Modern Building Exhibition at Chester seemed to me to be very much the sort of thing that the architect and builder working outside London should find interesting. Mechanical plant is admittedly the builder's business and although it is not my business (fortunately) to decide whether a particular item of equipment is financially worth while, I find it interesting to see what is available.

*

I was impressed by BRS's housing exhibit, which explained, with simple diagrams and models, many points which I have been able to understand in the past only by doing a lot of reading. Has BRS ever thought of publishing its reports in this form? With only minor modifications the individual panels would make pamphlet papers far more informative than a lot of the special reports I have to plough through each month.

BUILDERS' HOMES

Starting with the fairly obvious assumption that houses have got to be cheaper, the eastern Federation of BTE, after a good deal of indifference on the part of the Ministries concerned, has now nearly completed a pair of semi-detached £1,000 houses near Ipswich. Not entirely to housing manual space standards; three bedrooms, living room 190 square feet, dining-kitchen 112 square feet, and a w.c. and bathroom opening off the hall. I know plenty of people wouldn't like a ground floor bath, though for some reason the Scots do, but I suspect that it helps a great deal to keep down the plumbing cost. These little houses seem to me the sort of thing many a couple would be only too glad to escape into. You will be glad to hear that they were architect designed.



SIMON LANGTON GRAMMAR SCHOOL FOR GIRLS, CANTERBURY, KENT

L. HUGH WILSON, A.R.I.B.A., A.M.T.P.I., CITY ARCHITECT & PLANNING OFFICER

HOPE'S WINDOWS

HENRY HOPE & SONS LTD

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Commerce continues to ravage beauty in spite of powers given authorities to control our environment. One wing of Tattersall's, Knightsbridge, has been mutilated by Oetzmann's. See note below.

PLAGUE PIT—

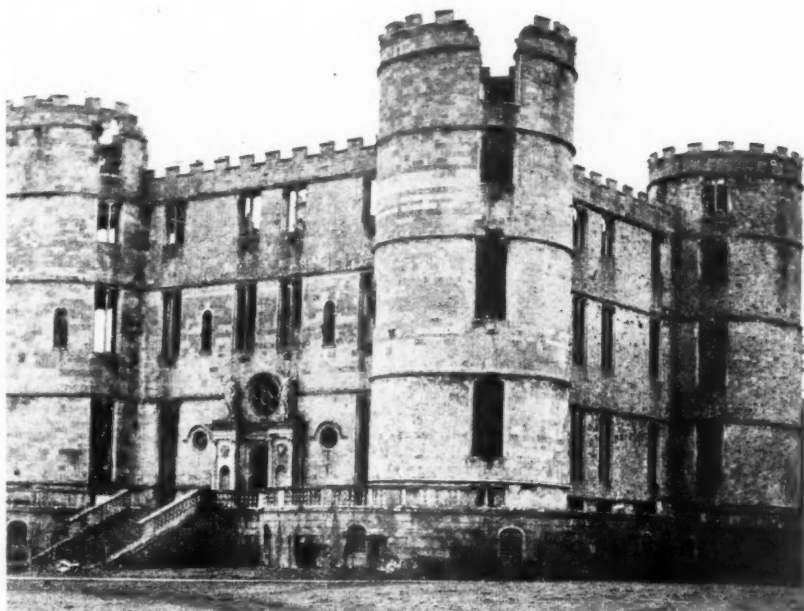
Near to the point where Brompton Road and Knightsbridge converge lies a small triangular patch called Knightsbridge Green. Below it, so legend says, lie the piled-up bones of many victims of the great plague. Facing it on the west stands the dignified classical façade in stone and yellow brick of Tattersall's, with its triumphal entrance arch and balancing side wings. At least it was dignified once, but something terrible has happened to it. One of the wings has been so mutilated that the façade is like a handsome face with one cheek ravaged by disease.

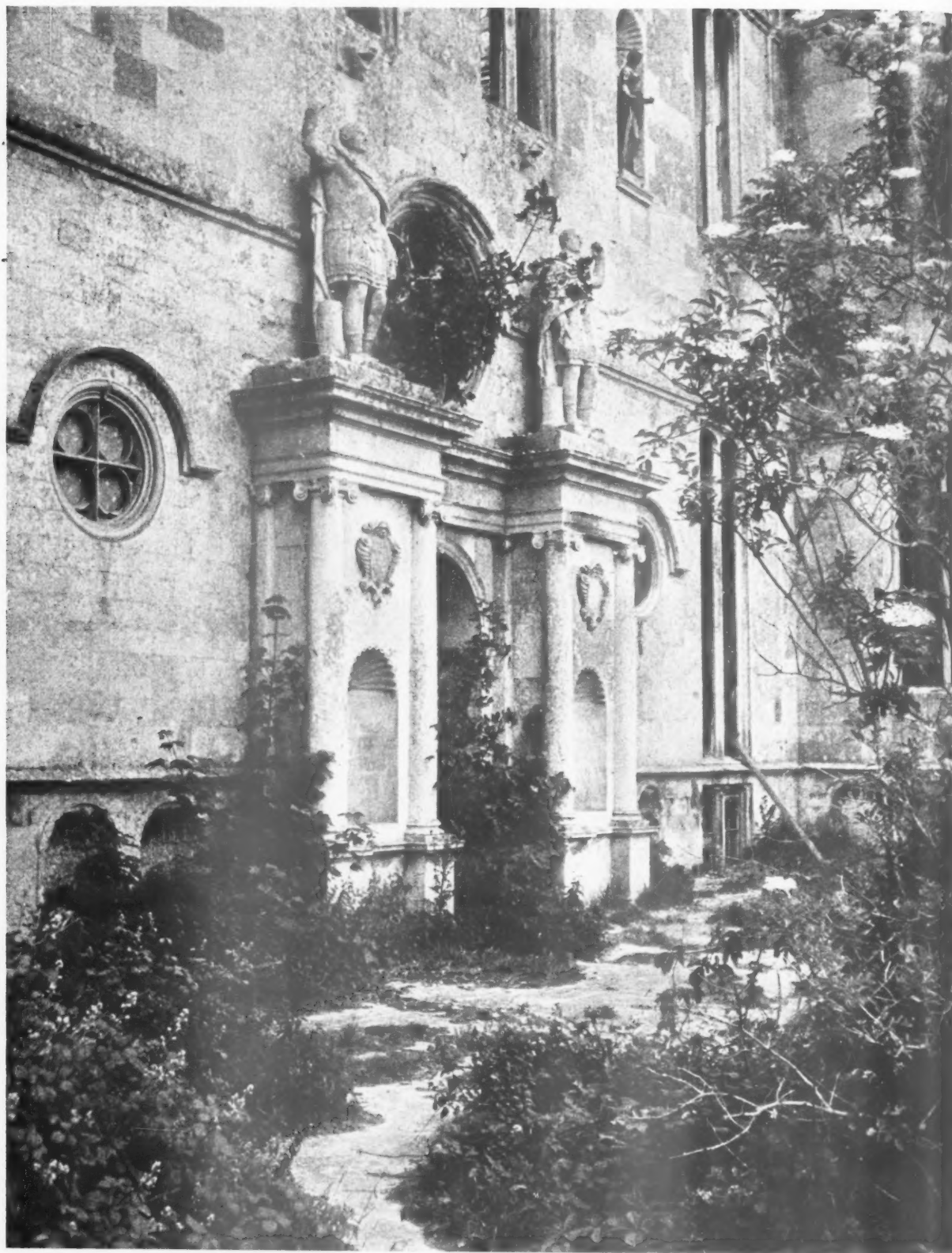
Tattersall's will not divulge their phone number to the public, and so I have not been able to discover at short notice, exactly why this scarring of Charles Freeman's design has come about—a design which is almost good enough to have been born in the eighteenth century, though it was indeed not erected until the 1860's. It is, however, as clear as Neon light to anyone passing by that the mutilated wing now houses the furniture emporium of Messrs. Oetzmann's, who, among other operations, have cut a huge gaping wound in the wall wherein to display their wares. (See my illustration.)

—TO ROSE GARDEN

This crude piece of conversion would alone be enough to ruin a pleasing corner of London, but even worse things have been happening there. The plague patch has been turned into

Compare these pictures of Lulworth Castle (below and right) with the one shown on page 4, which shows the ruin before man took a hand in ruining the ruin.





Nature's Shroud — or Man's?

Man retires from his creation and Nature creeps slowly in to take possession. How charmingly she does so is shown in this picture of Lulworth Castle. If Man is not going to restore completely he should neglect completely. When he interferes with Nature the result can be pitiful

to see. The photograph on page 3 shows Lulworth Castle after "treatment"—miserably and vacantly embalmed. It is a pity that time, money and labour should be spent on thus ruining a ruin when there are many buildings in urgent need of complete preservation.

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a Rose Temple Garden (see page 10), whose dwarf walls of squared rubble sandstone, silly little roof with wrought iron curls and generally meaningless fuss is not only feeble in conception but quite out of character in London. Perhaps it is a mistake to believe that its purpose is to please the eye. It may have been erected merely as a background for a copper advertisement board erected to perpetuate the names in tasteful Roman lettering not more than 2 in. high of some architects, of Messrs. Oetzmann, the Mayor of Westminster and the firm responsible for laying out the garden.



J. O'Hea, a director of W. H. Colt (London) Ltd., operating a projector at the talk (sponsored by the firm) given by O'Neil Ford at the Waldorf last week. See note on page 1.

A LOATHSOME THING, GOD WOT

I don't suppose this particular garden constitutes an advertisement. But many of the vulgar garden layouts now appearing on bomb sites and open spaces in London are, in fact, advertisements for the firms that provided them. This makes their existence doubly regrettable. Not only are we confronted in our pleasant thoroughfares by unimaginative planting and the indiscriminate use of squared random sandstone but the public is told, by means of prominent labels, where it can have its own gardens "done." Thus gross errors in taste may be perpetuated.

*

But there is one encouraging thing about these commercially sponsored gardens. They are officially regarded as advertisements and, as such, come under the advertising control order. Will any boroughs take action and remove these eyesores?

ASTRAGAL

The Editors

WANTED: A PLAN FOR PRESERVATION

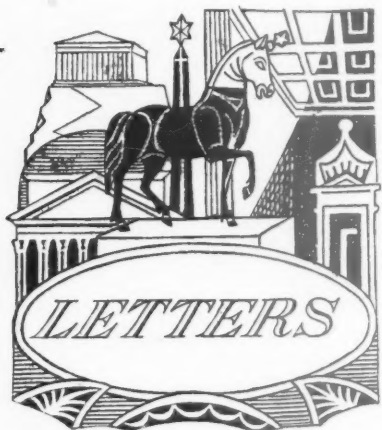
HOW many of our buildings of historical or architectural interest can we afford to keep? To the casual observer it must seem that there are enough public bodies engaged in work of repair and maintenance of ancient buildings to ensure that our heritage is preserved. But most of these bodies are supported by voluntary subscriptions and have comparatively little money. And some of them confine their work of preservation to particular types of buildings (e.g. the Georgian Group and the Pilgrim Trust, which now finds that it is unable to give aid to churches other than cathedrals).

Only a small number of buildings that deserve repair and maintenance receive attention. For each building that is patched up as well as resources allow there are many that decay unnoticed. And this is surely not due to public apathy. Letters appealing for money for purposes of preservation, which appear in the daily Press from time to time, are often followed by letters of thanks for the generous response from readers. But do those who contribute to funds for preservation in reply to such appeals stop to consider whether the buildings they are helping to preserve are worth keeping? It is obvious that although most of the buildings that receive assistance from societies and cultural charities are mainly urgent and deserving cases, some of them may be preserved for indefinite, if not for sentimental, reasons. How are we to decide which buildings to save from decay, so that our limited building materials and labour may be used where most needed?

This question becomes more urgent month by month as country houses like Weald Hall and Marks Hall are demolished and others are threatened with destruction. The report of the Gowers Commission on the preservation of country houses has led the government to promise legislation and the allowance of "a very small sum" of money, to be controlled by the Ministry of Works, on condition of public access to houses. That is something to be thankful for; but it is not enough. The government has disagreed with several proposals made in the Gowers Report. It does not accept the proposal that the owners and occupiers of buildings worthy of preservation should be relieved of tax. And it does not agree to set up a Historic Building Council as a statutory body to give advice to all concerned with the preservation of historic buildings.

Surely it is of vital importance that such a council should be formed. Without a central body to co-ordinate the work of the ministries and the local authorities concerned with the question of preservation, little useful work can be done. The first job of such a council would be the compiling of an all embracing list of buildings worthy of preservation—including the smaller and more remote places that are in danger of being forgotten. (The MOLGP list is *not* comprehensive.) When such a list has been compiled we shall know which buildings are suitable for conversion, which for opening to

the public, which for maintenance by the National Trust and so on. Let us have some action from the Government in this matter quickly. In the meantime, the JOURNAL has invited members of interested societies to meet to pool their knowledge. From their discussion on this occasion we hope at least to salve a point of view, if not a plan. A report of the meeting will appear in the JOURNAL in a few weeks' time.



J. T. Lewis, A.R.I.B.A.

D. Joel

J. S. Walkden, F.R.I.B.A., M.T.P.I.

Nominated Sub Contractors

SIR,—I was very interested in the article in the JOURNAL for June 21 regarding the rather knotty problem of nominated sub-contractors, and I enclose a copy of the standard letter used by this office when inviting quotations from specialists.

"Dear Sirs,—(1) . . . (2) . . . I shall be pleased to receive your estimate in detail for (3) . . . All prices to be subject to (4) . . . per cent. cash discount in favour of the main contractor.

"If your quotation is accepted, you will be nominated a (5) *Supplier/Sub-contractor*, under the terms of the RIBA Form of Contract (Revised 1948) specially adapted for the use of Local Authorities where quantities (6) *do not form/part* of the contract and you will look to the main contractor for payment.

"(7) If you wish to avail yourself of the terms of the Fluctuation Clause (25A) of the above-mentioned Conditions of Contract, please submit the basic prices of wages and materials upon which your estimate is based, otherwise it will be treated as a firm offer.

"The Form of Contract referred to herein may be inspected at this office during normal office hours.

"Your submission of an estimate will be deemed to convey your acceptance of these Conditions.

"Notes. (1) Heading giving full description and site of work for identification. (2) Insert any necessary preliminary notes such as details of drawings enclosed, etc. (3) Describe in great detail the scope and description of the work or article concerned. In the case of work to be carried out complete it is important to define the approximate quantity (unless indicated on drawings, etc., enclosed), and whether screeds and

such like are included or will be dealt with separately. In the case of articles to be supplied give number, adequate description of size, finish, etc., or catalogue number if available and state terms of delivery, etc. (4) *Insert percentage as follows:*—In the case of work to be carried out complete 2½ per cent. In the case of articles to be supplied, where fixing is to be done by the Main Contractor 5 per cent. (5) Delete whichever does not apply. (6) Delete whichever does not apply. (7) Applicable only in the case of Sub-contractors—delete if for articles *supplied only*."

Builders would be well advised to enter into firm contract with specialists, but in my experience very few of them do.

JOHN T. LEWIS.

British Furniture: Information Wanted

SIR,—I am engaged in writing a book at present, entitled "British Furniture at the Mid-Century and What Led Up to It." A comprehensive range of illustrations will be included, showing the present trend of contemporary design, and the history of its birth and its slow development over the succeeding years.

I am making every effort to give credit to all whose work contributed to the movement. I would be grateful, however, if you would allow me through your columns to invite contributions from any firms or individuals who consider that their designs or productions had a definite influence on contemporary furniture.

I would welcome photographs with dates and ample descriptions, and would be glad to receive these as soon as possible, but in any case, not later than July 22.

DAVID JOEL.

Middlesex.

Student's Night 'Out

SIR,—May I be permitted to draw the attention of those of your readers who may be old students of the Polytechnic School of Architecture to the concert of British music which is to be given in the Royal Festival Hall on the evening of July 21? This concert, of which you have been kind enough to publish details, is being organized by the Polytechnic Architectural Students Society as their contribution to the entertainment of visiting foreign students of Architecture expected in this country in July. It is felt by all connected with the School that many of our old students who can find it convenient to be in town on that day will like to show their appreciation of the students' enterprise by giving the concert their support. Indeed it would be most encouraging if architects who have passed through either the day or evening departments during the past fifty-five years of the School's existence, could make of this important occasion an opportunity for the renewal of old friendships.

JOHN S. WALKDEN.

London.



RIBA

The Ashpitel Prize, 1950

The Ashpitel Prize—a prize of books to the value of £20 awarded to the candidate who, taking the Final Examination to qualify as an Associate, most highly distinguishes himself among the candidates in the Final Examinations of the year—has been awarded to David William Hubert (The School of Architecture, The Polytechnic, Regent Street, London).

WESTMINSTER ABBEY

New Fabric Survey

Following the resignation of Sir Charles Peers, who has held the post since 1935, S. E. Dykes Bower has been appointed Surveyor of the Fabric of Westminster Abbey. Former holders of this office include Wren, Hawksmoor and Gilbert Scott. Messrs. Seeley & Paget will remain responsible for the reconstruction of the Deanery and the houses in the little cloister.

MOW

How to Make Houses Resistant to Mining Subsidence

Can houses be protected against possible damage due to subsidence? Complete protection is impracticable and uneconomic, says the MOW's National Building Studies Special Report No. 12 "Mining Subsidence: Effects on Small Houses" (HMSO 1s. 9d.); but houses can be made more resistant to mining movements if a number of simple changes are made in "normal design." And these changes need not incur a large increase in the cost of building.

What are these changes? The report recommends precautions to be taken in the layout and construction of houses. "For example," says an MOW press notice about this report, "buildings should be sited so that the shorter axis coincides with the direction of anticipated maximum curvature of the ground. A structure of simple box form designed to act as a unit is best; the smaller the plan of the building the less likelihood there is of damage. Terraces, when desired, can be made by building in units with adequate gaps between them to permit movement. Semi-detached houses are preferable to terrace houses, detached are preferable

SOUTH BANK EXHIBITION ARCHITECTS: NO. 6: BASIL SPENCE

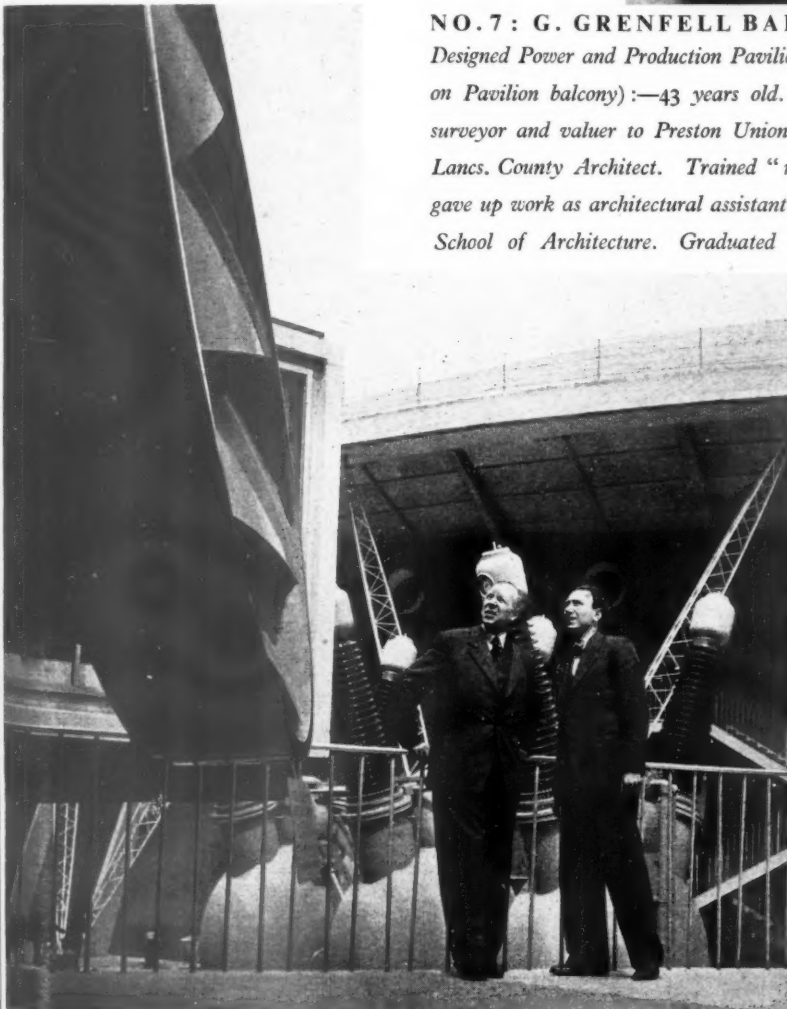
Designed Sea and Ships Pavilion. Born 1907. Educated, George Watson's School for Boys in Edinburgh and at Schools of Architecture, London and Edinburgh Universities. Worked with Lutyens for a year. Started private practice 1930. RIBA Silver Medallist 1931. Won Arthur Cates Prize (tied with Robert H. Matthew). Pugin Student 1933. Built three large country houses before the war. Designed Scottish pavilions at Empire Exhibition 1938 in collaboration with T. S. Tait. Chief architect for "Britain Can Make It" Exhibition, "Enterprise Scotland" (1947) Exhibition and several other exhibitions. At present engaged (among other jobs) on 350 houses at Sunbury-on-Thames, 200 houses at Dunbar, 250 houses at Selkirk, 3 secondary schools—at Stirlingshire, West Riding and East Kilbride—shopping centre at East Kilbride and reconstruction of Theatre Royal, Edinburgh, after destruction by fire. Has three offices with forty assistants—most of whom are from abroad. Lives above his office at Moray Place, Edinburgh. Right, in the "playroom" next to his studio.



NO. 7: G. GRENFELL BAINES AND H. J. REIFENBERG

Designed Power and Production Pavilion. G. Grenfell Baines (right of picture, taken on Pavilion balcony):—43 years old. After working as junior in office of rating surveyor and valuer to Preston Union from 1923, became junior draughtsman with Lancs. County Architect. Trained "rather fortuitously" at night school, but later gave up work as architectural assistant in Bolton and went to Manchester University School of Architecture. Graduated 1937. Won Southern Rhodesia Parliament

Home competition and started practice (1937) with capital obtained. Founder member and chairman, Grenfell Baines Group. Now partner in Grenfell Baines and Hargreaves, Preston—planning consultants to new towns of Aycliffe and Peterlee. Hobby:—trying to find time for hobby. Intermittently enters architectural competitions. H. J. Reifenberg:—57 years old, "sorry to say." Graduated Berlin Technical University, 1922. Private practice in Berlin, 1924. Busy for 14 years with houses for "well-to-do." Interiors, blocks of flats, offices, industrial work, etc., in Palestine "after the outbreak of Hitler." Came to England in 1938 for "believe it or not" climatic reasons. Spent war years in London, liked it and became British subject. Hobby:—architecture.



A CAUTIONARY NURSERY TALE: THE CHAIN STORE TECHNIQUE



to semi-detached. A bungalow is more likely to be damaged than a detached two-storey house with the same total floor area.

"The provision of a reinforced concrete base slab, combined with the other recommendations made, will prevent any appreciable damage except where large differential vertical movements occur. The weakest mortar, consistent with the normal load-carrying requirements, should be used to allow the walls to adjust themselves to moderate changes of curvature of the ground without serious cracking. The resistance of the walls to flexure may be increased by the introduction of steel reinforcement in the brickwork, but the cost is justifiable only in houses certain to be subjected to severe differential vertical movements, such as those near the boundaries of mine workings.

"A typical pair of semi-detached houses

of traditional construction are illustrated (in the report), comparative plans and elevation being given to show modifications to make the building more suitable for mining areas—narrower windows to provide greater surrounds of brick, windows altered in position or omitted, continuity broken between buildings, etc.

"The principal alteration is the substitution of a reinforced concrete base slab for the normal strip footings. Three schemes are worked out to show the basis of design of the reinforcement. They can be simply adapted for other loads and other qualities of steel than those given. It was estimated at the time of the investigation that the extra cost per house for the reinforced base slab over that of the normal footings ranges from £13 to £20, with a further £5 for modifications to drainage and to the spine wall."

Attempt to Establish Good Building Standards

A MOW Press notice states that the Technical Appendices to the 1944 Housing Manual,* just published, have been prepared with a view to establishing a minimum code of good practice in the building of all types of house. The Appendices have been compiled by the MOW with the help of the MOH, the BRS and the Ministry of Fuel and Power.

In the first Appendix functional standards for dwellings are set out. Particular attention is given to requirements of strength and

The Housing Manual, 1949: Technical Appendices. MOW and MOLGP. (HMSO: 2s.)

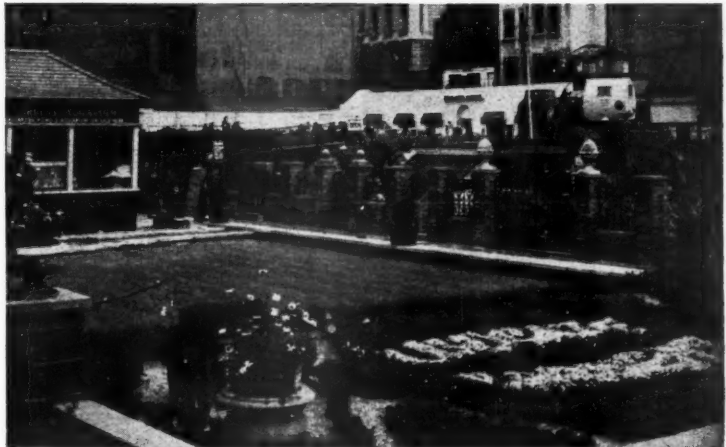
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QUE IN LONDON GARDENS



If there are Fairies at the bottom of our gardens their names are Ignorance, Commercialism and Vulgarly. Ignorance stands at the elbow of those authorities who allow London bomb-sites and open spaces to be "developed" as advertisements for the vendors of the "Ideal Home" style of garden. And the other ugly sisters, Commercialism and Vulgarly, appear once these vendors begin to apply their chain-store technique to garden layout. Recently there has been a rapid growth of this kind of three-dimensional advertising, with its "wrought iron" and its cemetery-like symmetry. The nurseryman's equivalent to the shopkeeper's neon-and-chromium trademark is clearly and tragically apparent in the Strand (left), Piccadilly (above) and Ludgate Hill (right). [Continued overleaf]



stability; durability and maintenance; resistance to moisture penetration and fire; thermal insulation and the exclusion of noise. Other Appendices contain descriptions of methods of attaining functional standards while economizing in cost and in the use of materials.

The MOW Press notice calls attention to the Appendix which deals with "the influence of design considerations on general building costs." It is pointed out in this Appendix that "in site works and foundations the aim should be to develop from virgin soil to ground floor level, including ancillary works, with the minimum number of separate operations." It is said that on comparable sites these operations have varied from twelve to six, with a cost variation of £69 to £44 per house. And it is also pointed out that the use of more expensive finishes on

solid ground floors (provided that in each case the whole floor is covered) can be cheaper than the use of several small areas of less costly finishes.

Exhibition of Building Plant

Manufacturers of building plant and equipment from many parts of Britain will take part in a "Machines for the Modern Builder" exhibition which the Ministry of Works, in association with the Building Industry, have organized at Middlesbrough from July 13 to 21, inclusive. The exhibition will be held on open ground at the end of Levick Crescent, Whinney

Banks, Middlesbrough. It will be open daily (except Sunday) from 11.30 a.m. to 7.30 p.m. Admission will cost 1s.

STEVENAGE

New Chairman Appointed

Sir Thomas Benneit has been appointed by Hugh Dalton, Minister of Local Government and Planning, as chairman of the Stevenage Development Corporation.

Sir Thomas, who succeeds Monica Felton, will continue as chairman of the Crawley Development Corporation.

A CAUTIONARY NURSERY TALE (continued from page 8)



This week the Metropolitan Boroughs can review their existing advertisement sites. (Powers have been delegated to them by the LCC under the 1947 Town and Country Planning Act.) Should they not try to do something about this new form of advertising? Or are any of them enlightened enough to see what opportunities for the creation of informal gardens have been missed? One example of enlightened patronage, unfortunately carried out in doubtful taste, is the Rose Temple Garden at Knightsbridge Green (see below and Astragal note on page 3). Meanwhile, the work of "beautifying" London goes on, though with no commercial interests involved, behind the National Gallery (above left) and in Bloomsbury Square (above right).



NFBTO

Shortage of 6m. Houses

In his presidential address at the NFBTO conference at Cleethorpes, which began on June 26, Sir Luke Fawcett said that progress in planning and rebuilding had been disappointing.

There was a shortage of over 6,000,000 houses in the country. At the present rate of progress, the London housing lists would not be exhausted for 20 years. Sir Luke added that war preparation was now the supreme obstacle to building progress.

On the second day of the conference the Minister of Labour, A. Robens, said that the scarcity of craftsmen in the building

trade was delaying work on some civil building projects for periods of from three to nine months. He was having discussions with the officers of the Federation to see if more could be done to speed up the training of adults in the building crafts.

FOB

Architectural Awards

On July 12, at 11.0 a.m., in the Royal Pavilion of the South Bank Exhibition, Lord Ismay, Chairman of the Festival Council, will present certificates to the successful designers of buildings which have been selected

as setting a high standard in civic and landscape design since the war. It is intended that the buildings and gardens selected will provide an historical record of accepted ideas of good design in 1951. In addition to the award of a certificate, it is intended that the Festival emblem, in the form of a commemorative plaque, should be fixed to the buildings chosen.

TPI

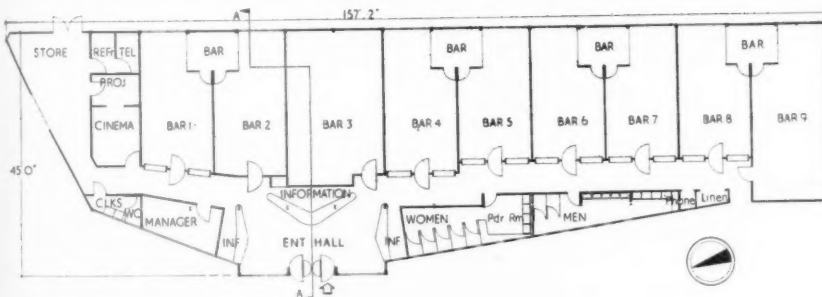
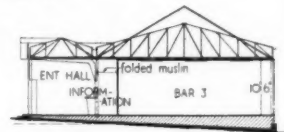
President Elected

E. H. Ford, of Coventry, has been elected president of the Town Planning Institute for 1951-52 and will take office in November.

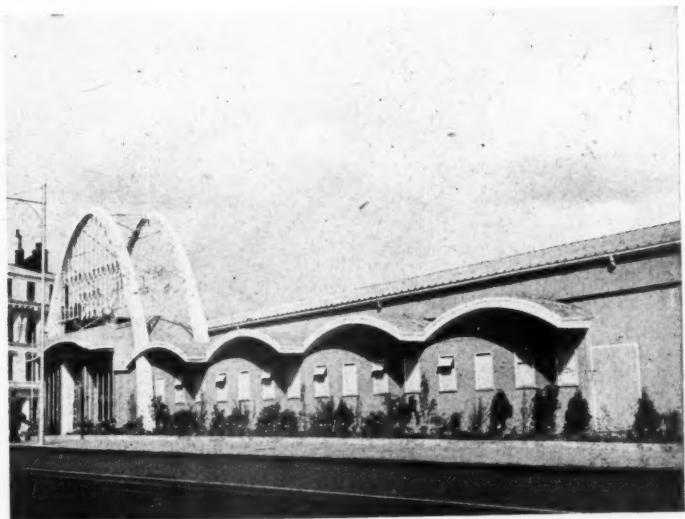
INTERNATIONAL TRADE CLUB, WESTMINSTER BRIDGE ROAD, S.E.1.



The purpose of this building, which is designed by Douglas L. Dick, is to provide a meeting place where firms whose chief interest is in export business may entertain their clients within a few hundred yards of the South Bank exhibition. The club will remain in its present position during the duration of the FOB, after which it will be dismantled and re-erected on another site as a public house. The building was begun and completed between February 16, 1951, and May 3, 1951. The site is on the corner of Westminster Bridge Road and Lambeth Palace Road and the main elevation to Lambeth Palace Road is seen left and below. The entrance hall has three enquiry counters, one of which is seen below left. The main structure consists of 16 tubular scaffolding trusses supported on R.S. stanchions. The external walls are formed of prefabricated panels consisting of a 3-in. sq. timber frame faced on both sides with hardboard and filled in solid with insulating material. The general contractors were M. J. Gleeson (Contractors), Ltd. For sub-contractors, see page 30.

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

Section AA



SHOWROOM IN MOUNT STREET, W.1.



The new showrooms and offices for Pal-Personna Ltd., at 103, Mount Street, are designed by J. Woolton of Heal's Contracts Ltd. Walls of glass bricks have been built to allow daylight into the display area, seen above, where there is a cabinet containing the products of the firm. Below left, is the managing director's office, which contains a specially designed desk and a portable electric fire (seen below right) fixed to a wood backing and base. The display area has a cork tile floor, the manager's office a fitted carpet and all woodwork is walnut. The general contractors were Heals Contracts Ltd. For sub-contractors see page 30.



Vitruvians v. Palladians:

A cricket match played on June 14 between "The Vitruvians" (which comprises members of the technical Press and was captained by I. M. Leslie, editor of *The Builder*) and "The Palladians" (a semi-architectural team, captained by Winton Lewis) ended in a draw. It was held at the AA ground at Elstree.

ANCIENT BUILDINGS

Estate Duty Exemption

In the House on June 28, Mr. Gaitskell, Chancellor of the Exchequer, moved a new clause, which was carried, providing for exemption from estate duty to preserve land for the public benefit. This includes land given to the National Trust, Government departments, local authorities and universities, and also the contents of houses given to those bodies. The Treasury will grant exemption where it is satisfied that this is the best method of securing the preservation of buildings of historic or architectural or aesthetic interest.

CHURCH REPAIR

The Necessity of State Aid

Lord Kilmaine, secretary of the Pilgrims' Trust, addressed the annual meeting of the Friends of Bath Abbey, at Bath, on June 25. He said that he believed that the Church would be compelled finally to seek a grant-in-aid from State funds for repair. Today the arrears of repair work have got out of hand. This situation was due, said Lord Kilmaine, to the combined effects of 10 years in which no repairs could be done, sharply rising costs, and the present taxation of private income. He believed that the necessary sum of money, somewhere between £2,000,000 and £5,000,000 could not now be raised from voluntary sources. He explained that the action of the Pilgrims' trustees in suspending grants to Churches was taken to focus attention on this problem.

Lord Kilmaine congratulated the Friends of Bath Abbey on raising £27,000 in three years towards their requirement of £80,000.

SNOWDONIA PARK

Dr. Dalton Confirms

Hugh Dalton, Minister of LG and P, has announced his intention to confirm the Snowdonia National Park (Designation) Order, with modifications which add to the park several areas near the coast and exclude two small slate-quarrying areas on the southern boundary.

BSI

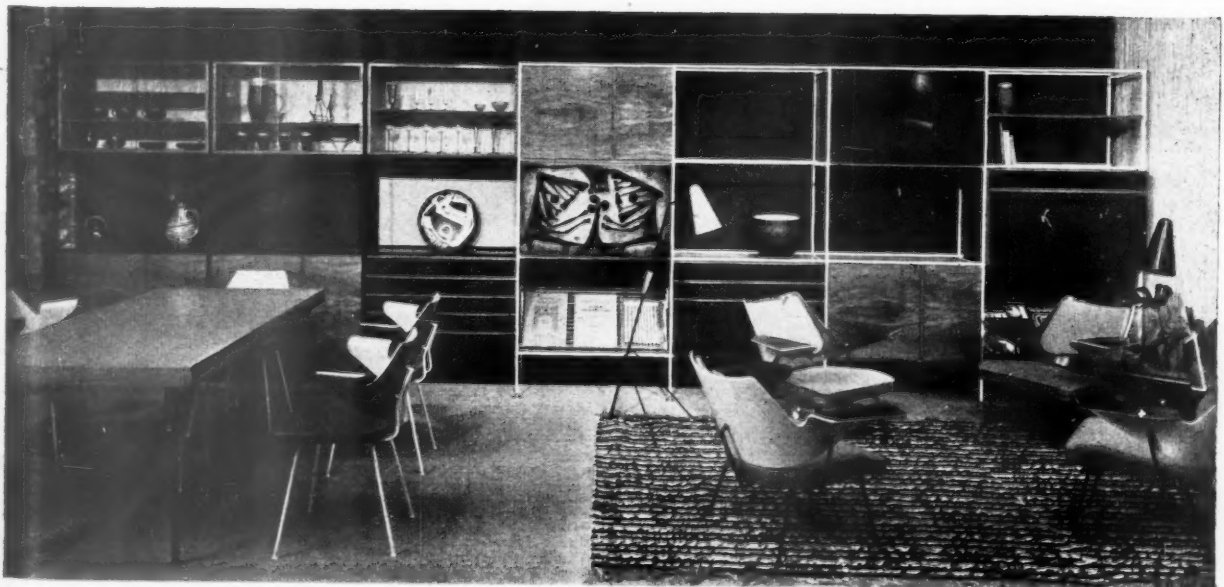
Booklet on Solid Rubber Flooring

The British Standards Institution has issued B.S.1711, "Solid Rubber Flooring." It covers solid rubber flooring, (i.e. floor covering material, either plain or marbled in sheet or tile form), but it does not cover rubber flooring having a backing of a different quality of rubber, of sponge rubber or of a non-rubber material.

The booklet deals with details of composition, workmanship, colour, thickness, hardness, compression set, and water absorption, and sets limits for the various properties. It also includes details of methods of test.

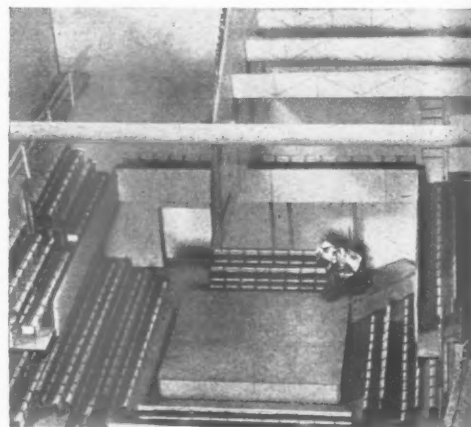
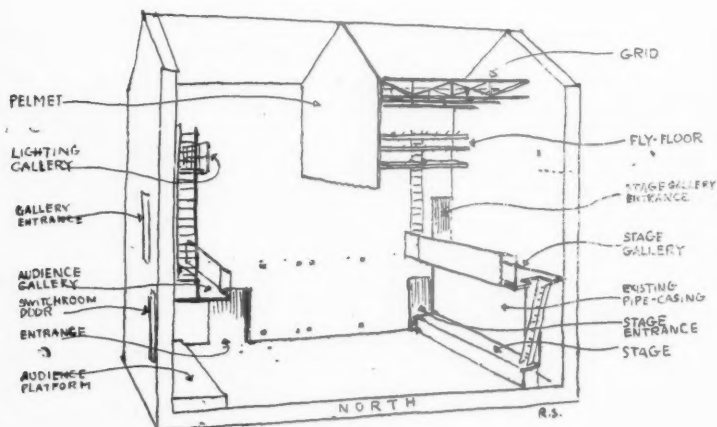
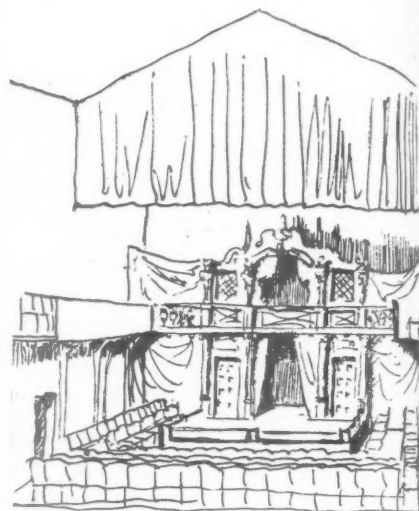
BRITISH FURNITURE AT TRIENNALE

The Triennale exhibition at Milan, which continues until September, contains this room designed by Robin Day. The furniture and wood fittings were made by Hille & Co. On the right, a close-up of the cupboard unit, and the wall with a straw finish. Below, a general view.



THEATRE FOR DRAMA DEPARTMENT, BRISTOL UNIVERSITY

This "dramatic studio," designed by Richard Southern was featured in the recent Theatre Architecture Exhibition at Coventry. It is planned (in an old racquet court) in such a way that it can be used for arena, Elizabethan or picture-frame productions. A stage balcony has been constructed by the casing-in of a calorifier and bank of pipes. In front of this is a "rump stage," 2 ft. 6 in deep, to which can be added stages of various sizes, built up from units. A similar balcony for the audience is a permanent feature of the theatre. Side balconies can be added if needed. The diagram below shows the theatre's permanent features. On the right (top) is a drawing of the Elizabethan theatre arrangement and (below) a model, showing the arena stage. The combined cost of the theatre to the university and to the Rockefeller Foundation, which recently made the university an award of \$20,000 for the development of the study of drama, was £5,800.



Copies of the Standard may be obtained from the BSI, Sales Department, 24 Victoria Street, London, SW1; price 2s., post free.

Apprentices Win Scholarships

Six young builders have won scholarships, each for three years study at a university or technical college, under a scheme sponsored by the Building Apprenticeship and Training Council. The scholarships, valued at about £200 a year, are tenable at Manchester, Cardiff or Leeds Universities, or at a technical college.

The successful boys, who will receive their certificates of award from the Minister of Works, the Rt. Hon. George Brown, MP, in London early next month, are:—I. Marvin, Motherwell; J. C. Forrest, Stoke, nr. Chichester; D. J. T. Shears, Bourne-mouth; K. H. W. Ellis, South Norwood; E. J. Berry, Kennington, S.E.1; R. C. Robinson, West Bridgford, Nottingham.

Since the scholarships scheme was introduced by the Building Apprenticeship and Training Council in 1947, 25 boys have won entrance for full time study at universities or technical colleges. A condition of the awards is that, on completion of their courses, the boys will take up positions in the building industry.

DIARY

Festival of Britain Exhibition. Town Centre, Crawley. (Sponsor, Crawley Development Corporation.) Daily (except Sundays) 10 a.m. to 6 p.m.

The Architecture of North Africa. G. E. Kidder Smith. 34, Bedford Square, W.C.1. (Sponsor, AA.) 8 p.m. JULY 5

The Lansbury Scheme. Arthur Ling. At Alliance Hall, Caxton Street, S.W.1. (Sponsor, ABT.) 6.30 p.m. JULY 6

International Federation for Housing and Town Planning. At High Leigh, Hoddesdon, Herts. JULY 14 TO 19

International Welding Conference. London and Oxford. (Sponsor, IOW, 2, Buckingham Palace Gardens, S.W.1.) JULY 14 TO 21

"Living Traditions" Exhibition. At Royal Scottish Museum, Edinburgh. 10 a.m. to 10 p.m. Sundays: 2 p.m. to 6 p.m. UNTIL SEPT. 15

FOB Exhibition of Architecture. At Lansbury, Poplar. Weekdays, 10.30 a.m. to 8 p.m. Sundays, 12.30 p.m. to 8 p.m. UNTIL SEPT. 30

Harlow New Town Festival Exhibition. At Harlow. Monday to Friday: 10 a.m. to 4.30 p.m. Saturdays: by special arrangement. (Sponsor, Harlow Development Corporation.) UNTIL SEPTEMBER

FOB South Bank Exhibition. Daily 10.30 a.m. to 11.30 p.m. Sundays, 12.30 p.m. to 11 p.m. UNTIL SEPT. 30

Exhibition of Science. At the Science Museum, South Kensington. Weekdays (except Tuesdays and Saturdays), 12 noon to 10 p.m. Tuesdays and Saturdays, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m. UNTIL SEPT. 30

1851 Centenary Exhibition. At Victoria and Albert Museum, South Kensington. Weekdays, 10 a.m. to 6 p.m. Sundays, 2.30 p.m. to 6 p.m. UNTIL OCT. 11



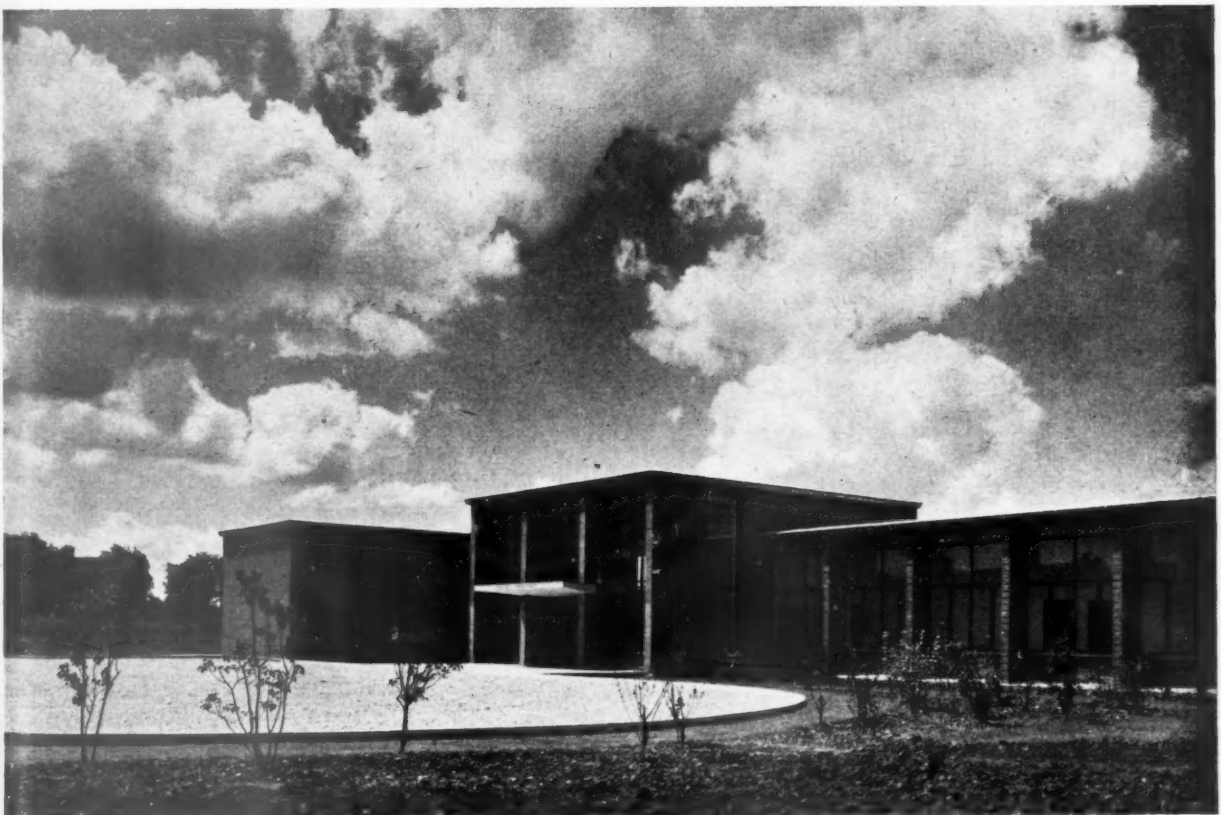
The Architects' Journal for July 5, 1951 [15]

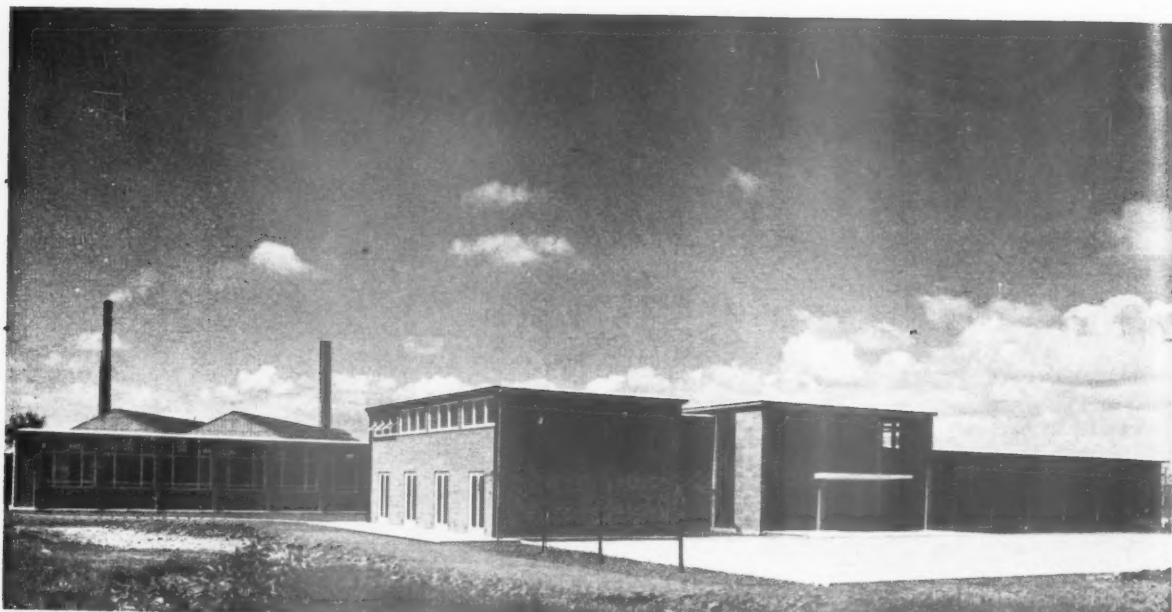
RESEARCH LABORATORIES

at STEWARTBY, BEDFORDSHIRE
designed by CECIL C. HANDISYDE
consulting engineer S. M. CLEATOR

At its main works, 5 miles south of Bedford, the London Brick Co., Ltd., required a new building to house four laboratory sections, offices and more general accommodation consisting of a large entrance and display hall, a conference room, a library and a directors' dining room. This general accommodation was planned to be contained in a separate wing so that it could be built later than the laboratories. (It was, in fact, built at the same time.) A site of ample size was available conveniently near to existing buildings.

The east facade looking south-west.

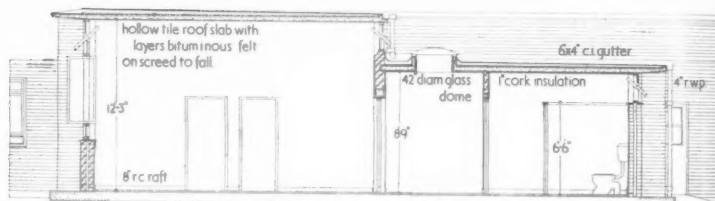




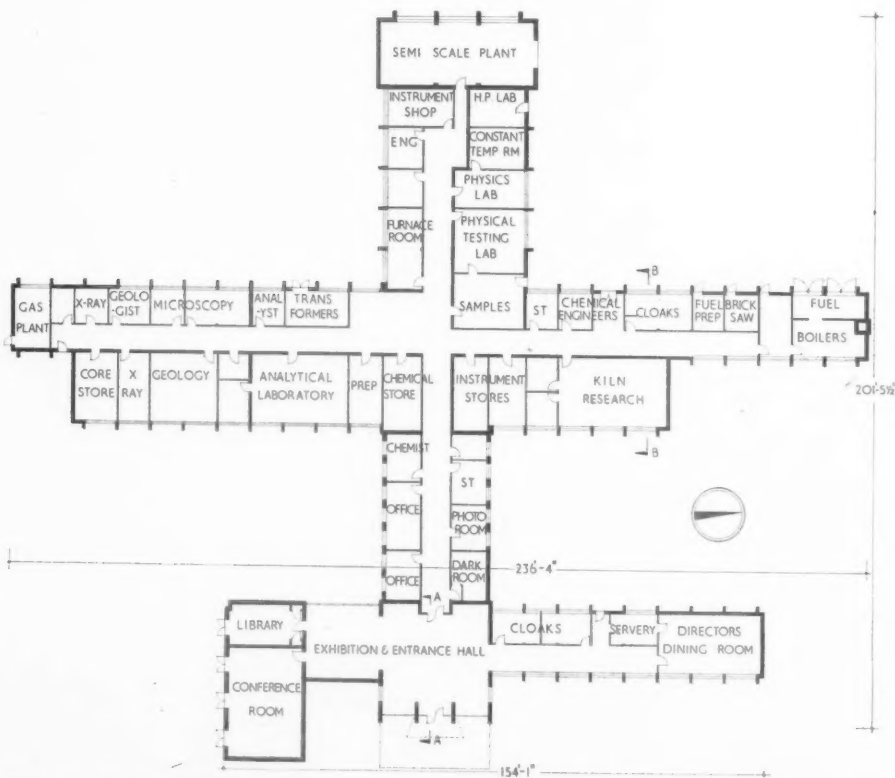
General view looking north-west with the Conference Room nearest the camera.

RESEARCH LABORATORIES

at STEWARTBY, BEDFORDSHIRE
designed by CECIL C. HANDISYDE



Section B-B [Scale: 1/8" = 1']



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

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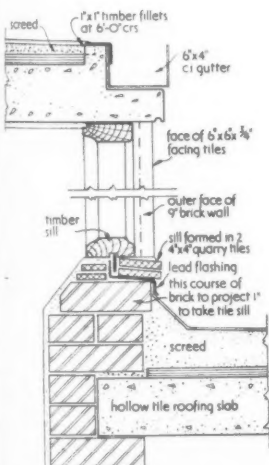
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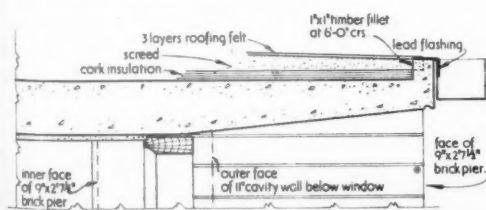
SITE:—The general level of the site (poorly drained clay) was lower than that of surrounding ground. As loads from the building are small and brick fill from the factory is readily available, the whole area of the building has been raised about 2 ft. by fill.

PLAN:—The plan arrangement consists of three wings of laboratories, each having a section similar to that often used in schools. The larger laboratories obtain cross ventilation and lighting over the central corridor and the corridor is lit by dome lights. The laboratory accommodation required consisted of a number of rooms of moderate size, and some quite small laboratories and offices.

CONSTRUCTION:—It was a requirement that the general construction should be in brick. Two standard bay dimensions are used and the roofs are of hollow tiles which are carried either on permanent brick partitions or on reinforced concrete beams. The external walls are mainly glazed between deeply projecting brick piers. The large-span ceiling to the entrance hall is of solid reinforced concrete, cross reinforced and domed about 1½ in. on the soffit to avoid any appearance of sag. There is a reinforced concrete raft foundation formed on the brick fill. The filling was carried out in 12-in. layers and compacted by a 10-ton roller, with the moisture

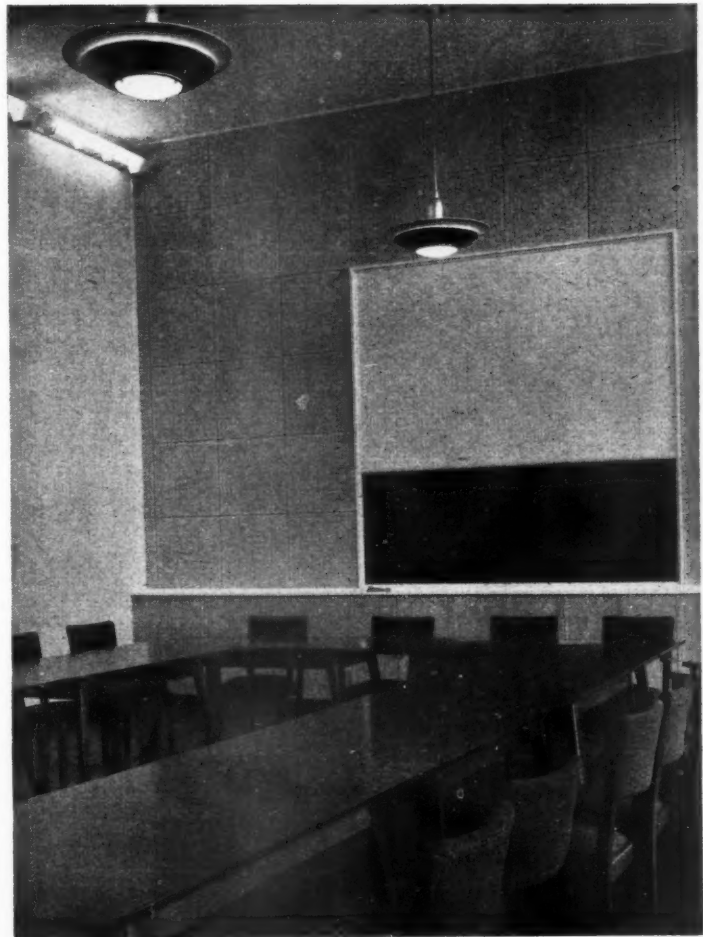


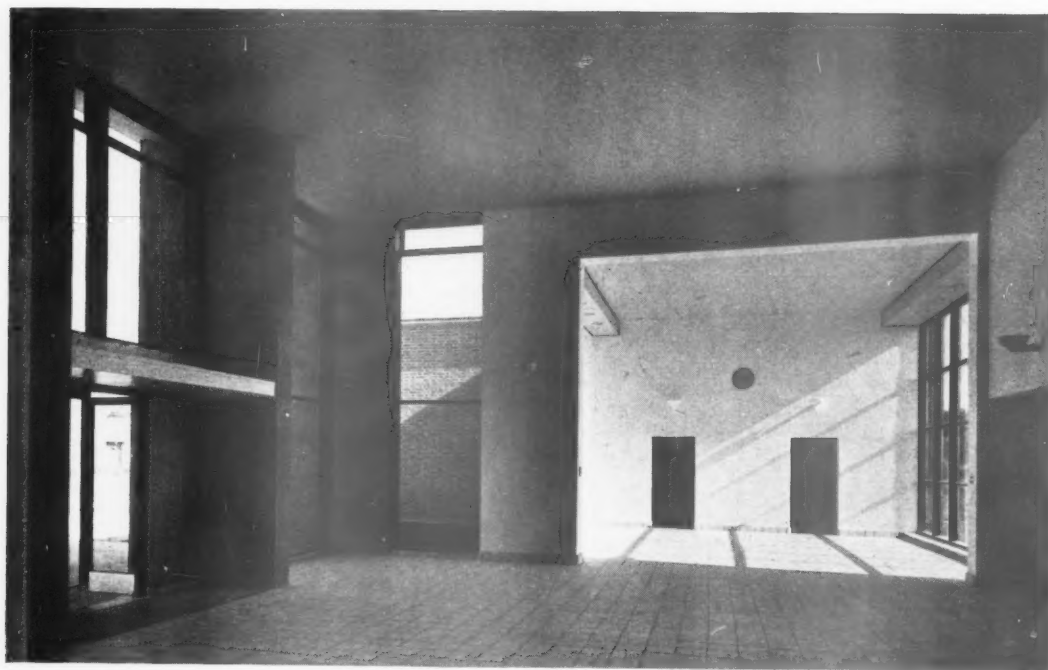
Roof Section at Junction of Low and High Laboratories



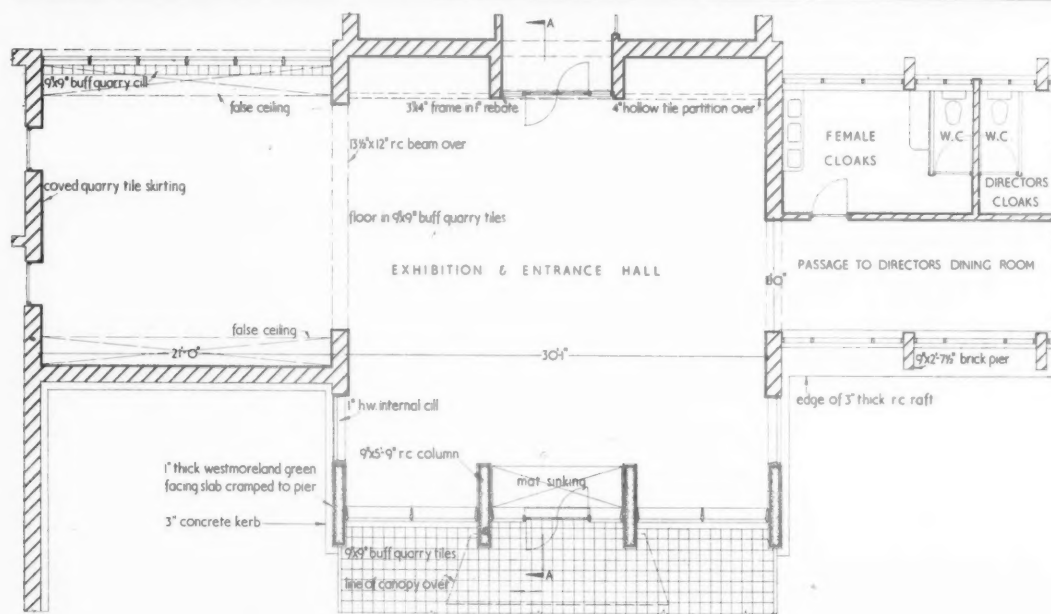
Edge of Roof Slab in Low Laboratory [Scale: 3/4" = 1' 0"]

Below, the directors' dining room. Bottom, the east wall of the conference room. The blackboard and screen are surrounded by acoustic tiles.





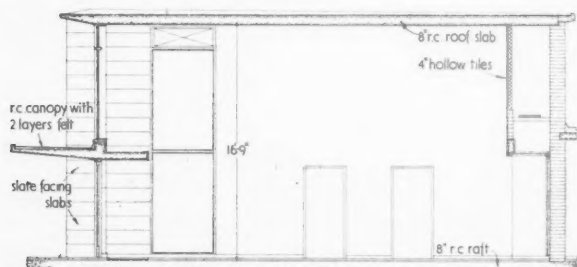
Left, the entrance and exhibition hall, with doors to the conference room and library in the background.



Plan of Entrance Hall [Scale: 1/8" = 1' 0"]

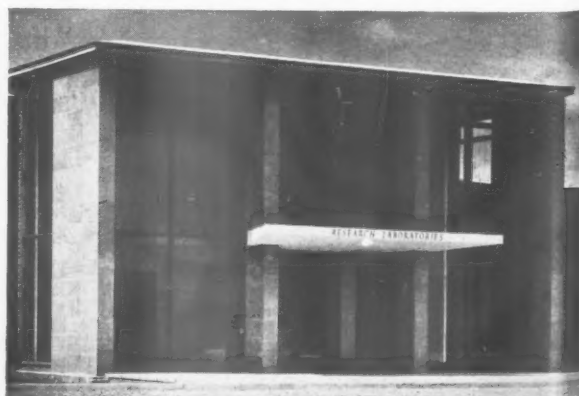
RESEARCH LABORATORIES

at STEWARTBY, BEDFORDSHIRE
designed by CECIL C. HANDISYEE



Section A-A [Scale: 1/8" = 1' 0"]

The main entrance on the east facade.



content of the fill adjusted to give good compaction. The raft is 8 in. thick except under the semi-scale plant room where there are heavier loads.

FINISHES:—External walling is in rustic flettons made at the adjoining works, except for the piers to the main entrance, which are covered with sawn-finish Westmoreland green slate. Windows to the east block are in iroko, and elsewhere in painted softwood. The roof is finished in 3-layer felt with a white spar topping. Internally, the entrance hall floor is in buff quarry tiles; corridors and laboratories are in teak blocks; the directors' dining room is close carpeted. The plastering and decoration of the panel-heated ceilings raised some problems during building. Plaster was specified in accordance with relevant Code of Practice recommendations and it was found that the plasterers had difficulty in adjusting their work to this unfamiliar specification until representatives from the BRS visited the job and explained the technique. Heating was turned on slowly and allowed to build up to full temperature over a period of three weeks. It was difficult to decide whether to decorate the ceilings before heating was on, thus risking decorating over a damp surface, or to wait until the heat was on, in which case, nobody was quite certain whether the heat would affect the paint. Some painting was done before the heat was on and this proved satisfactory in laboratories where ventilation was good, but gave some trouble in corridors where there is less ventilation. The margin between conditions for success and failure was a very narrow one. Other painting of ceilings was done after heating was on and caused no trouble.

SERVICES:—The embedded ceiling panels are heated from a normal coke-fired boiler. This method of heating was chosen because of the diffi-

culty of finding space for radiators or room for a sufficient area of unobstructed under-floor panel heating. The roof is insulated by 1-in. cork, plus light-weight concrete screeding. Other services required were cold water, light, power, gas, vacuum and compressed air. Hot water is provided by local electricity heaters. After consideration of methods of conveying services in ducts, it was decided to expose all pipes and treat them as a feature by painting them in normal BS colours. Special fixings were designed. Lighting is by tungsten lamps in the east block and corridors and by hot cathode fluorescent tubes in laboratories and offices. Special fittings were designed for the fluorescent lighting.

The general contractors were Robert Marriott, Ltd. For sub-contractors, see page 30.

Below, the kiln research laboratory. Bottom, looking west with the south wall of the conference room on the right.



Below, brick testing machine in physical testing laboratory.



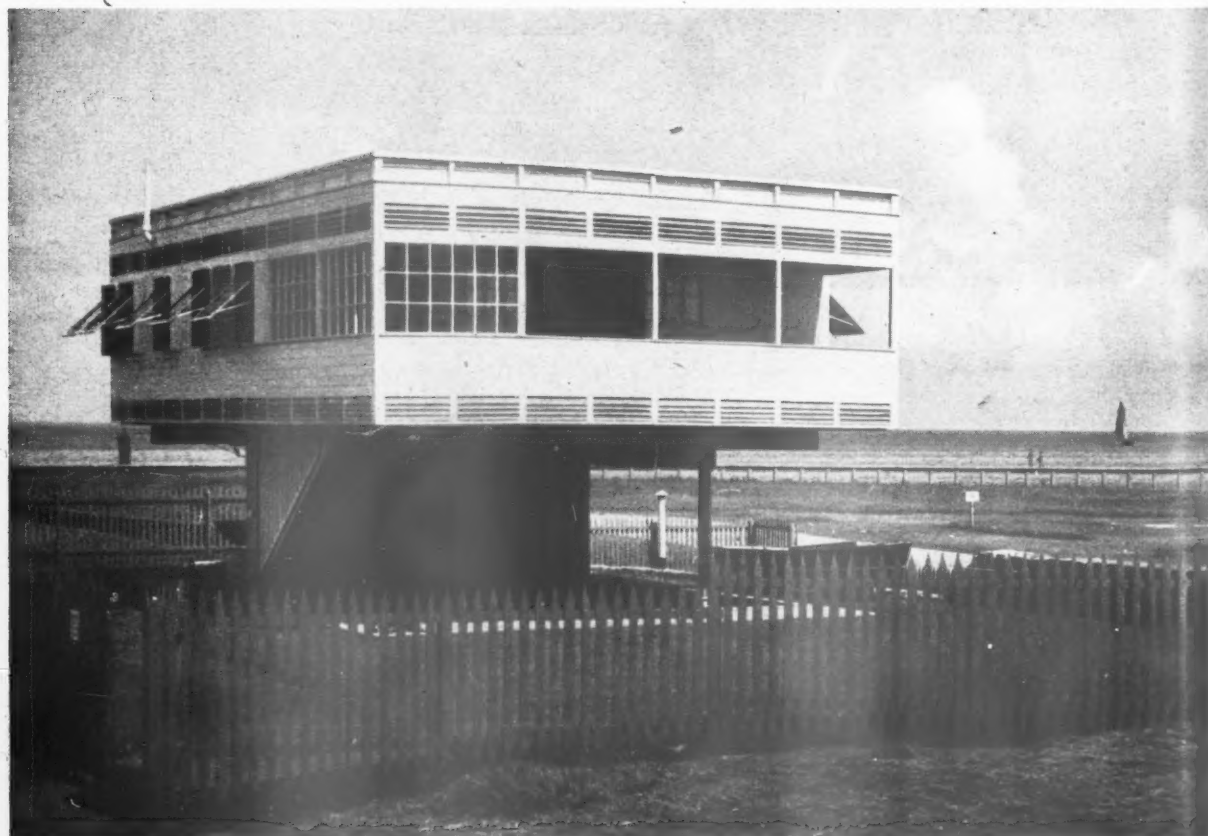
PREFABRICATED HOUSING

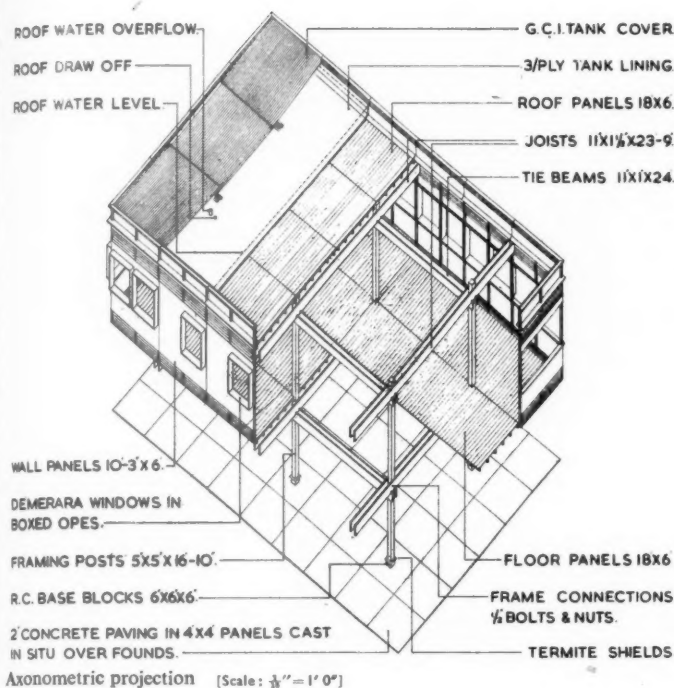
in BRITISH GUIANA

designed by M. COSTELLO

British Guiana ranks high among the Empire's sources of first-class building timber and at present the Colonial Development Corporation are setting up a large mill and timber cutting organization. As a subsidiary to the milling installations it is proposed to lay down prefabrication plant for the factory production of low-cost houses of appropriate design, to meet local needs. In order to test the possibilities of a simple sectional form of construction, a design was prepared for the Central Housing and Planning Authority of British Guiana by the Government Architect and Planning Officer.

Prototype house from the south-east.



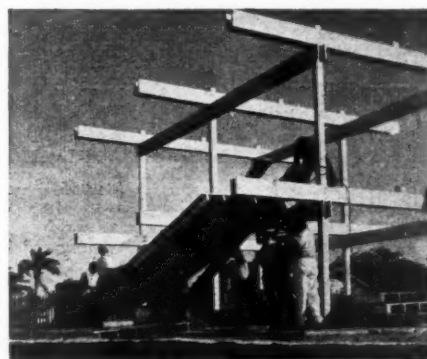


SITE.—The prototype house has been built in a very exposed position on the sea coast but this is not an area where hurricanes have to be guarded against.

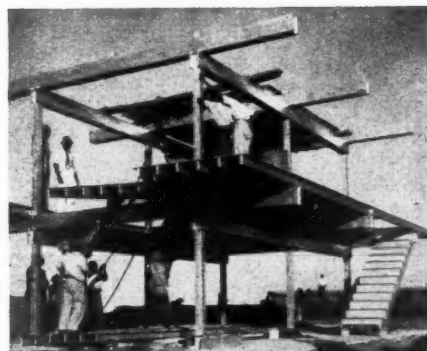
PLAN.—It was decided that the design should provide for ordinary family needs and that three bedrooms were essential. It is estimated that at least 300 houses out of the 500 new houses per year that are required to meet the present shortage in the colony can be of types suitable for prefabrication. All the required accommodation except the utility room is at first floor level in order to provide the coolest and most comfortable living conditions in the warm, humid climate of the West Indies.

CONSTRUCTION.—Prefabricated units which are small enough and sufficiently rigid for easy handling and transportation have been used, and a nut-and-bolt assembly as the most rapid method of erection. A 12-ft. by 12-ft. frame grid was found most satisfactory with 5-in. by 5-in. uprights and duplex joists and tie-beams. Floor and roof decks are each of eight 18-ft. by 6-ft. panels, which are all similar except where the staircase well occurs. The erection time for the frame and shell was five days.

FINISHES.—Frames and floor and roof panels are of greenheart, a strong and durable timber which is abundant in British Guiana. Wall panels and partitions have a 1/2-in. crabwood rebate and V-jointed cladding. This wood is similar to mahogany and is also abundant locally. Louvres and small fittings



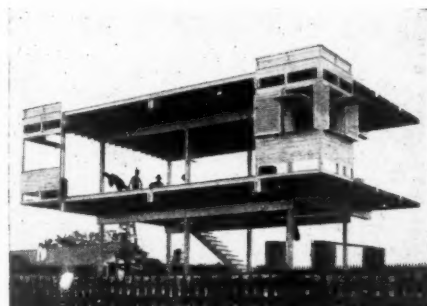
First floor panel being raised.



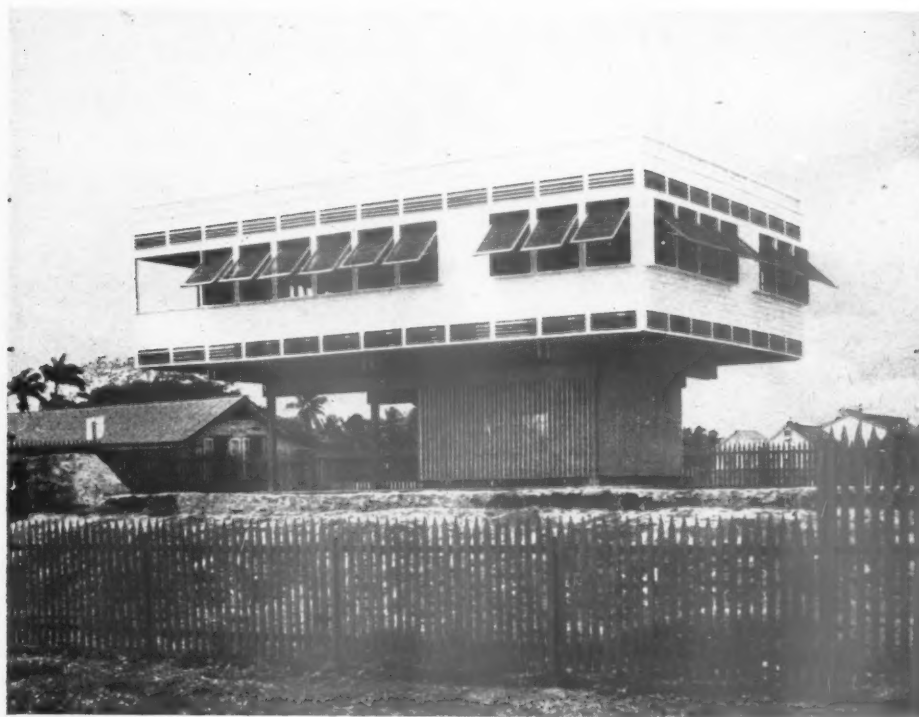
Placing floor panels in position.



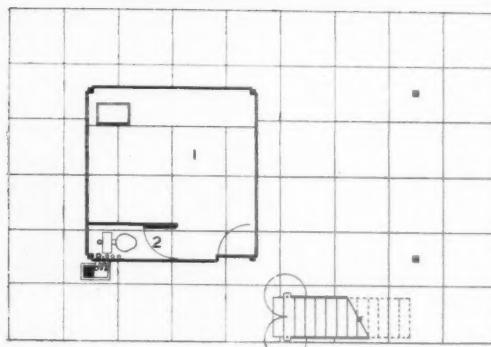
First wall panel being raised.



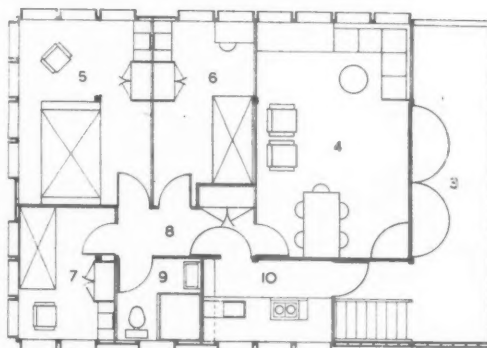
Corner wall panels fixed.



Left, the completed prototype house from the north-west. Below, the dining end of the first floor living room.



Ground floor plan (Scale: $\frac{1}{8}" = 1' 0"$)



First floor plan

- KEY
1. Utility room.
 2. Toilet.
 3. Balcony.
 4. Living and dining room.
 5. Large bedroom.
 6. Medium bedroom.
 7. Small bedroom.
 8. Lobby.
 9. Bath and toilet.
 10. Kitchen.

PREFABRICATED HOUSING

in BRITISH GUIANA

designed by M. COSTELLO

are in silver balli, a light and durable wood used a great deal for boat building. The walls, both outside and inside, are painted, the priming coat being put on before erection.

SERVICES.—As rainwater storage tanks are required in rural areas and are a useful supplement in urban areas having a piped supply, the roof forms a shallow tank which feeds the plumbing by gravity and keeps the house cooler. The tank lining is of 3-ply vulcanite.

The nett weight of the completed house is $12\frac{1}{2}$ tons. The cost of the prototype, excluding site works, was £1,136, but the estimated cost in full production is £625.



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Every architect has to use, at some time or other, planning maps. The following description of the merits of the new system of notation, published by the former MOTCP, is by D. Rigby Childs, who was a member of the Ministry's Working Group for the Investigation into Methods of Reproduction of Survey and Development Plan Maps.

By D. Rigby Childs

Architects have long been accustomed to having prints made from their tracings or sketches by one of the well-known drawing office printing methods. Planning offices, on the other hand, have not hitherto been able to obtain copies of their maps so readily, because a detailed planning map is much more difficult to reproduce than an architectural plan. It comprises an Ordnance Survey topographical base, over which is shown the planning data. For complete clarity, this data should be different in colour and tone from the map base. Since it has been the custom to show planning data in

many colours, the task of reproducing maps of this type is lengthy and expensive and can be undertaken by only a few firms in this country.

THE NEED FOR MAPS

However, Town and Country Planning has now reached the stage where its successful operation calls for maps to be produced quickly, cheaply, and in large numbers (sometimes in thousands). Copies of maps are required at all stages of planning. Planning authorities need copies for their officials, area offices, members of committees, and for the council itself. At the preliminary planning stage, copies of maps are required for formal consultations with neighbouring authorities. When the draft plan is submitted, the Minister requires two copies, but the plan may be approved sooner if additional copies of it are available. Furthermore, copies of the approved plan must be available for sale to the public at a reasonable price. Many architects, surveyors and lawyers will wish to purchase copies of it. Every five years the plan must be reviewed and more copies of it are then required.

THE NEW NOTATIONS

The new simplified notations, produced by the MOTCP and described in their new Circular 92,* pave the way for big improvements in the reproduction of planning maps. An important factor in favour of the new notations is that their use will not render obsolete the Ministry's original colour notations, which can, in fact, be used unaltered in conjunction with the simplified notations.

*MOTCP Circular No. 92. Reproduction of Survey and Development Plan Maps. HMSO, 1951. 4s. 6d.

A description of the new notations together with examples will be given on Information Sheet 1.B5 and 1.B5a.

Planning offices will find many advantages in adopting the simplified notation of letters as the basic method of expressing planning data in map form. But it does need to be made clear that this form of presentation produces what amounts to a working map comparable to an architect's working drawing. While sufficient for the technician, this plain, simplified map may be difficult to follow by, for instance, the lay committee member. Moreover, it is less lively in appearance than a coloured map. In order to make these maps easier to read or to emphasize particular aspects of them, certain areas, already annotated, could be coloured either by hand or by over-printing. Many people already hold the view that a map drawn with the new, simplified notation plus two or three colours is more legible than a map produced with the full range of colours. Some believe that the appearance of the new maps is also an improvement. Similar methods of notation have already been adopted and published in other countries; both in Italy* and in Sweden,† for instance. The Italian method is based on a system of hatches and symbols which may be printed in one, two, three or four colours. The Swedish system also uses a greater variety of hatches and symbols than prescribed in Circular 92.

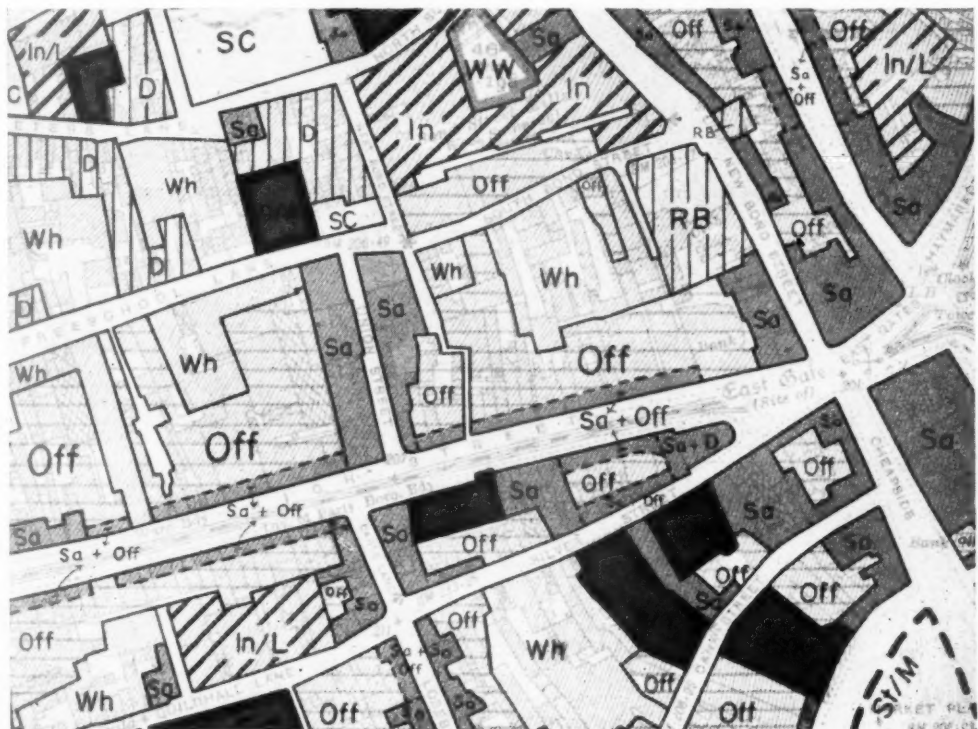
ADVANTAGES OF THE NEW NOTATIONS

The new system of notation has a number of advantages.

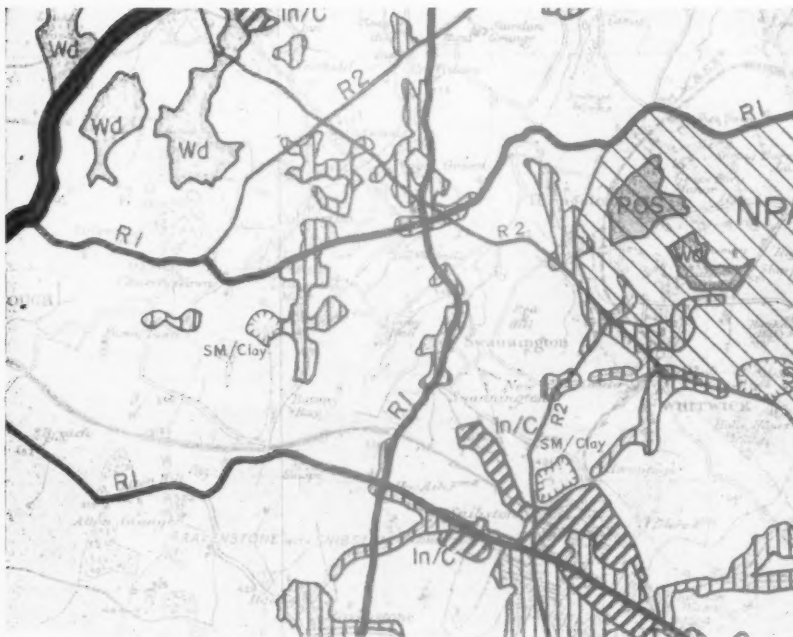
It provides a means of drawing in one colour all the information to be shown on a map. Reproductions can be made by single colour printing (preferably, in red-brown) over the grey topographical base map. Alternatively, reproductions can be made photographically; if well done, these can be almost as clear as printed copies.

The letters can be drawn quickly, and they are not liable to be misinterpreted to the same extent as are colours or hatches; many people are confused by a fully-coloured planning map. Nor do they obscure the

* *Urbanistica*, Aug. and Oct. 1949, Mar. 1950.
† *Plan* No. 4, 1950.



Half-tone reproduction of map with Ordnance Survey base in grey, survey information in red-brown and two additional colours-blue and red. (Land Use map, scale 25 in. to one mile (1/2,500)).



Half-tone reproduction of map with Ordnance Survey base in grey, survey information in red-brown and three additional colours—yellow, green and red. (Land Use map, scale: one inch to one mile.)



Half-tone reproductions. Left, map with Ordnance Survey base in grey and survey information in red. (Net Accommodation Density map, scale: 6 in. to one mile.) Right, map with Ordnance Survey base in grey and survey information in blue. (Water Supply and Sewerage map, scale: 1/25,000.)



ning data in a distinctive colour over the base map sheet for which a special lithographic plate has been made. But if the drawing and printing are done carefully, similar results can be obtained by printing with the colour true-to-scale process. In either case, the planning data must be drawn separately from the base map, i.e., on overlays (a special material, not ordinary tracing paper and cloth which are liable to stretch, must be used) or, in the case of lithography, by drawing on a white enamelled metal plate incorporating a non-photographic blue impression of the base map printing plate.

For photo-copying it is sufficient to draw direct on to a base map sheet, preferably a print in grey.

For some purposes excellent results can be obtained by drawing the planning data, in its monochrome notation, directly on to a film positive or a cloth tracing of the Ordnance Survey. Copies can then be made by the usual drawing office methods, e.g., ozalyn, photostat or true-to-scale processes.

Circular 92 concluded the series of circulars which the MOTCP issued on notations. The series began with Circular 29 and the British Colour Council Chart of 80 Town and Country Planning Colours and Shades. Circular 59 (as amended by Circular 70) prescribed notations for development plans primarily suited to hand-colouring (with this notation as many as twelve colours can be required on one plan). Circular 63 prescribed a similar system of notation for survey maps. Finally, after a long delay, Circular 92 has appeared, containing the revised notations specifically designed to aid the quick reproduction of maps.

This latest circular is a well-produced document with a short and clearly expressed text. The real body of the circular is in a set of appendices which include: (1) An alphabetical index of letters used in the revised notations; (2) the complete notations for all survey and development plan maps with, in each case, the new simplified notations set out beside the original colour notation; (3) illustrations in colour of the technique of preparing planning maps for printing by the true-to-scale or lithographic methods and specimens of maps in the simplified notation with and without the use of additional colours and at different scales.

(continued from page 26)

for insulation and lightness, and an inner skin of plaster, ready decorated.

A more recent development, shown diagrammatically in Fig. 3, is the system of building with prefabricated portal frames, floor slabs, wall and window units, all handled by giant cranes. Several blocks of flats and offices have already been erected successfully and extremely rapidly by this system.

THE NEW STADIUM AT LENINGRAD

Of the new buildings recently erected in the USSR and mentioned by Prof. Bernal the Leningrad Stadium (see Figs. 6 and 7) is certainly the most unusual. The architect tried to solve two problems in his design. Firstly, to build a large stadium (for approximately 80,000 spectators) economically. Secondly, to prevent the building from having the appearance of a gasworks—a common fault with stadium designs.

The solution was to build the stadium of sand! This was dredged from the nearby harbour—an operation of considerable value in itself. The sand was then pumped to the stadium site and deposited around its circumference. It was allowed to settle to its natural angle of repose and then covered with a skin of concrete. The inner slope holds the seating, and the outer slope has been planted with trees and shrubs. The result is that the stadium, which, incidentally, is already completed and in use, resembles in appearance a natural amphitheatre.

underlying base map to the same extent as do flat colours or some forms of hatching. Incidentally, the use of the new notation simplifies the making of revisions.

METHODS OF DRAWING FOR REPRODUCTION*

There is no doubt that the most satisfac-

tory method of reproducing a planning map is by lithography; i.e., by printing the plan-

* For more detailed information, on the techniques which can be used for drawing maps for reproduction, than is given in the Circular, see *Town and Country Planning Textbook* (Architectural Press, 1950), Appendix I, *The Preparation of Planning Maps*, by Jack Whittle.

WORKING DETAIL

WINDOWS: 3

BAY WINDOW IN RESTAURANT: ROYAL FESTIVAL HALL

Robert H. Matthew and J. L. Martin, Architect and Deputy Architect, L.C.C.: Edwin Williams, senior architect-in-charge: Peter Moro, associated architect.



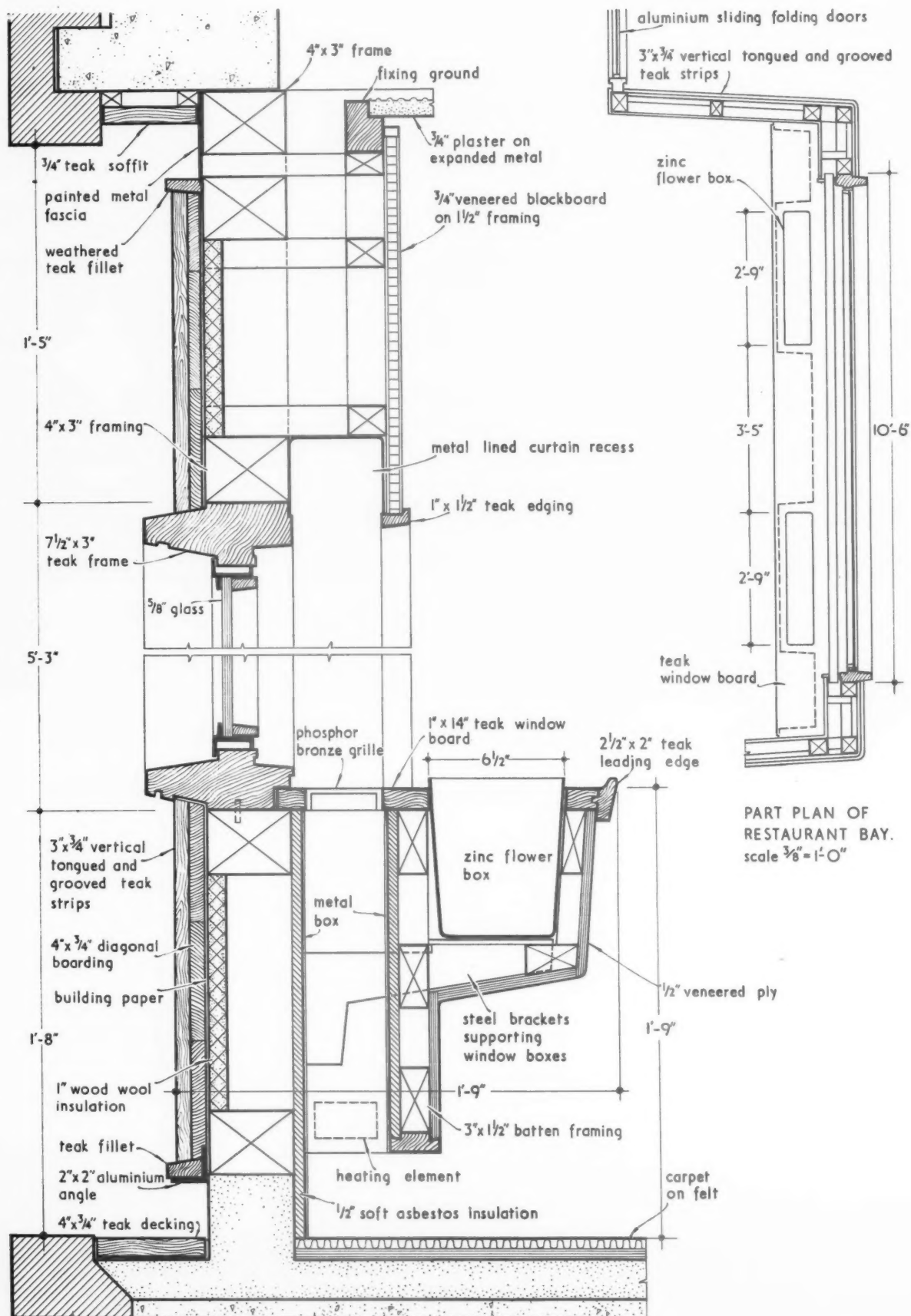
The outside walls of the bay are faced with vertical teak strips and the window, which is a single sheet of polished plate glass in a teak frame, has flower boxes on the restaurant side.

WORKING DETAIL

WINDOWS: 3

BAY WINDOW IN RESTAURANT: ROYAL FESTIVAL HALL

Robert H. Matthew and J. L. Martin, Architect and Deputy Architect, L.C.C.: Edwin Williams, senior architect-in-charge: Peter Moro, associated architect.



PART PLAN OF RESTAURANT BAY.
scale 3/8" = 1'-0"

CROSS SECTION WINDOW IN RESTAURANT BAY scale 2" = 1'-0"

WORKING DETAIL

FURNITURE AND FITTINGS: 7

BOOKING OFFICE COUNTER: ROYAL FESTIVAL HALL

Robert H. Matthew and J. L. Martin, Architect and Deputy Architect, L.C.C.: Edwin Williams, senior architect-in-charge: Peter Moro, associated architect.



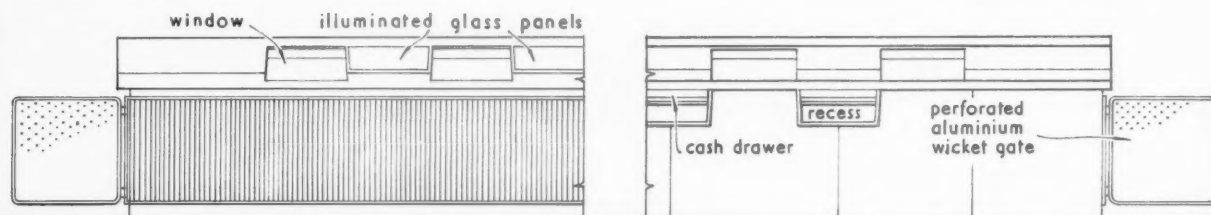
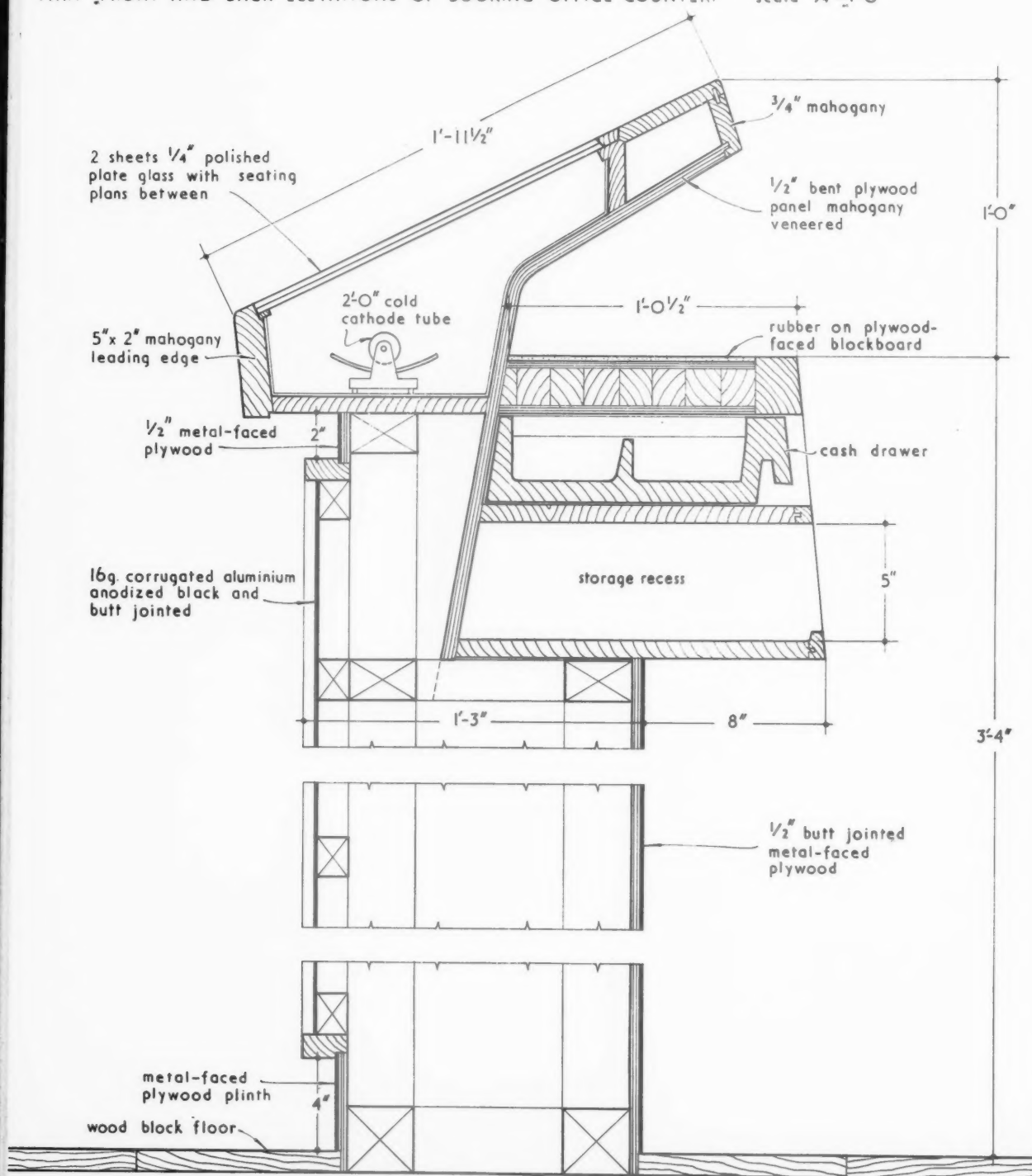
The counter has a front of finely corrugated aluminium and a perforated aluminium access gate. Seating plans are shown on illuminated glass panels between the ticket windows.

WORKING DETAIL

FURNITURE AND FITTINGS: 7

BOOKING OFFICE COUNTER: ROYAL FESTIVAL HALL

Robert H. Matthew and J. L. Martin, Architect and Deputy Architect, L.C.C.: Edwin Williams, senior architect-in-charge: Peter Moro, associated architect.

PART FRONT AND BACK ELEVATIONS OF BOOKING OFFICE COUNTER. scale $\frac{1}{4}" = 1'-0"$ CROSS SECTION THROUGH BOOKING OFFICE COUNTER. scale $2" = 1'-0"$

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It is not often that first-hand reports are received on building in the USSR. One from Prof. Bernal (Scientific Adviser to the MOW and, during the war, Chief Scientific Adviser to Combined Operations) is, therefore, particularly important. The following article summarizes a lecture he gave in London recently.

BUILDING AND PLANNING IN THE USSR

During his recent visit to the Soviet Union Prof. Bernal interviewed three of the major executives in charge of Russian building and visited numerous building sites and research establishments.

AFFORESTATION, IRRIGATION AND HYDRO-ELECTRIC POWER

Prof. Bernal devoted most of his lecture to a description of the vast scheme of afforestation, irrigation and hydro-electric stations, which will eventually convert an area of the USSR, approximately twice the size of Western Europe (2,000,000 sq. miles), into land fit for cultivation. This land is at present partly desert and partly dry, sandy steppe, and the scheme is due to be completed by 1956. Most of the tree planting has already taken place. Giant machines, which cover a 100-yd. "front," plant the young trees, 1 ft. high, on the steppe, and aeroplanes distribute seed over the desert. These trees, which are planted in belts, 2-3 miles wide and hundreds of miles long, will hold the rain, distributing it gradually, instead of allowing it to be wasted away. They also serve to reduce winds and, in particular, to prevent the low level turbulence which hastens evaporation.

For the hydro-electric power scheme, there will be five major stations (two with an output of 10 billion kilowatt hours per annum each) and 40 smaller stations equal in size to the famous Dniaproges station, partially destroyed during the war, but now rebuilt. Part of the output of these stations will be used for pumping water for irrigation, and engineers will always be able to "balance the load," because of the giant reservoirs, which will hold the irrigation water. So pumping will take place when industrial and domestic requirements are lowest. The engineers will be helped by the fact that the area of the scheme extends for three hours of latitude, so that the time of peak demand from different areas will vary.

The first lake involved has already been formed. It is roughly the size of Yorkshire and is the third largest in the Soviet Union. But in a few years time, it will only be the seventh largest. The River Volga will cease to exist as a river; instead there will be a series of lakes, connected by canals, with locks for sea-going ships at each dam. Some of these dams must be designed to be earthquake-proof.

Altogether the reinforced concrete used for the dams, the canals and the power stations will require 50,000,000 tons of steel—approximately two years' total Soviet production.

One of the dangers involved in the scheme is that the amount of water used for irrigation will be so great that the level of the Caspian Sea will fall. To avoid this, the course of several rivers at present flowing

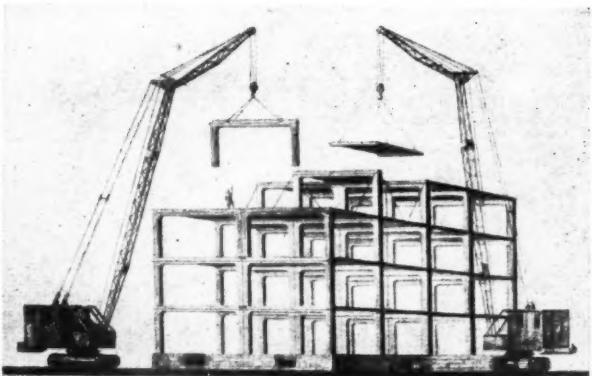
Fig. 1. Team of five bricklayers at work. The woman on the right is using a long-handled trowel.



Fig. 2. Tower crane lifting pre-fabricated window unit into position on multi-storey block of flats. Note tidy stacks of other prefabricated units in foreground.



Fig. 3. Diagrammatic sketch of the building system, using prefabricated portal frames, floor and wall units, for multi-storey buildings.



CATERING EQUIPMENT..



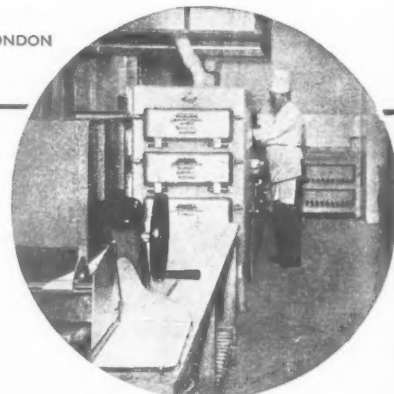
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SOVIET BUILDING METHODS

One of the most important problems which Soviet architects and engineers have now solved is that of maintaining building work during the severe Russian winter. In Moscow, for example, temperatures are below freezing point for five months of the year. The two-storey gantry, which is shown in Figs. 4 and 5, is invaluable for this purpose. These gantries are fully enclosed, with windows in the outer wall, and are equipped with "central heating." Workmen inside them can continue the work of cladding steel or reinforced concrete framed buildings in all weathers, in comparative comfort.

As the work proceeds, the gantry is moved up the face of the building. Fig. 4 shows a gantry nearing the top of a 17-storey block of flats in Moscow. The photo shows the progress reached by October last year, the building is now almost finished. Prof. Bernal saw, for himself, several buildings completed whilst he was in Moscow last March, during which month there were still several degrees of frost.

In his lecture, Prof. Bernal added another (surely the final) chapter to the controversy concerning Russian bricklaying speeds. He described exactly the Russian bricklaying technique. The bricklayers work in teams of 4 or 5, according to the thickness of the wall. Usually the team consists of 3 women and 2 men. One member of the team spreads the mortar with a long-handled trowel (see Fig. 1). 2 or 3 others actually lay the bricks, all working on the same stretch of wall, and the last member of the team finishes the operation by filling in the gaps between the bricks with more mortar. In this way an average of 2,000-2,500 bricks are laid per day, per man, without causing any undue fatigue.

But far less bricklaying is now being done in the USSR. Prof. Bernal said that many changes have taken place in Soviet building methods since he was last in the USSR, 18 months ago. In particular, there is widespread use of prefabrication, not only for small buildings, but for multi-storey buildings, too.

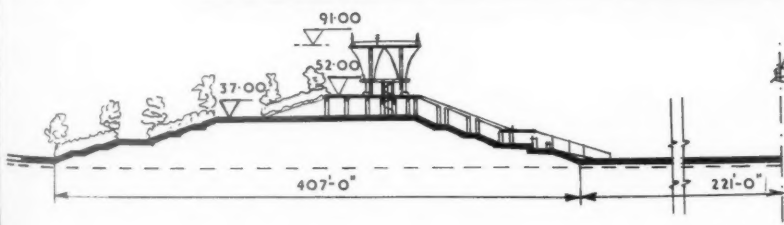
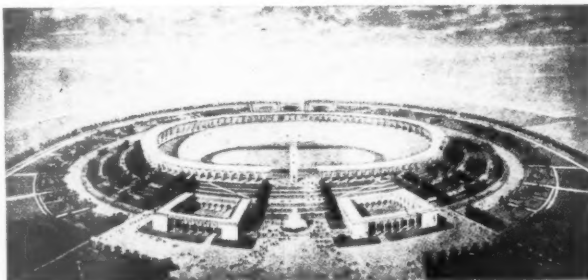
Prefabricated wall panels jointed with special water-repellent cement, and handled by cranes, which are extensively used on all Russian building sites, are replacing brickwork. These panels are usually 8 ft. tall, 4 ft. wide, and about 18 in. thick. They consist of an outer facing of stone, a core of aerated concrete,



Above, Fig. 4, a covered gantry in use on the block of flats being erected on the Kotelnicheskaya Embankment in Moscow. The gantry has reached the top of the main, 17-storey section of the building, which contains, on the ground floor, a departmental store and on the upper floors, 700 one-, two-, three-, and four-room flats. Below right, Fig. 5, men working inside the gantry.

(Continued at the foot of page 24)

The new Lenin-grad Stadium. Right, Fig. 6, a perspective sketch. Below, Fig. 7, a section through the tiers of seats. The stadium which holds 80,000 spectators, is now completed and in use.



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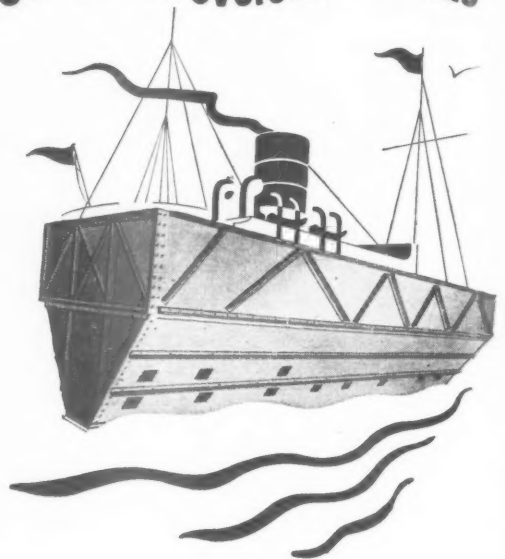
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INFORMATION CENTRE

9.20 design: general

ROADS AND AIRFIELDS

Pavement Design for Roads and Airfields. Road Research Technical Paper No. 20. (HMSO. 1951. 1s. 9d.)

Technical paper giving critical analysis of many methods of design. No completely logical method yet evolved but two are valuable. A specialist paper for those interested in road or airfield construction.

13.70 materials: timber

FLOORING

Resistance to Wear of Krabak as Flooring. F. H. Armstrong. (Wood. May, 1951.)

Brief report of FPRL abrasion tests. Resistance to wear comparatively low and some liability to splintering. Suited to conditions of light wear.

14.43 materials: concrete

LIGHTWEIGHT CONCRETE

Aerated Concrete (Part II). BRS Digest No. 29. (HMSO. April, 1951. 2d.)

Continuation of Digest 28. Precast block, mortars and use. Large precast units. *In situ* work. Cutting, nailing and plastering.

A useful continuation of Part I, this digest deals further with the use of the material. Reference is made to BS sizes for blocks but there is, at present, no BS for quality. Reference is made to a Code of Practice which deals with this. It is interesting to note that 400 lb./sq. in. crushing strength is said to be adequate for housing work. Some authorities still refuse to allow lightweight concrete of this strength to be used.

Some mention is made of the use of aerated concrete for specialized buildings, such as cold stores. The light weight of the material makes possible the handling of large units, but reinforcement is required, not for strength when in position, but for strength during handling, and there is a danger of corrosion.

Some useful points are made about *in situ* work. For felt-covered roof screeds a topping of ordinary concrete or mortar is needed to prevent crushing and to ensure good adhesion. Shrinkage must be allowed for in all *in situ* work because steam curing is impossible. In *in situ* walling there is also the problem of the increased density at the base of the wall.

The digest ends with a brief note on nailing and cutting, and some useful points on plastering and rendering. Recommendations for plaster mixes are given.

15.90 materials: applied finishes and treatments

ELECTROPLATING

Electroplated Coatings of Cadmium and Zinc on Iron and Steel. BS 1706:1951. (British Standards Institution. 2s. 6d.)

Covers several thicknesses of finish. Ad-

hesion, appearance and performance. Methods of testing.

15.91 materials: applied finishes and treatments

PAINTING WOODWORK

Painting Woodwork. BRS Digest No. 30. (HMSO. May, 1951. 2d.)

Six page summary of essential points in preparation and painting or re-painting of wood. Some useful points seldom referred to elsewhere.

This Digest pays considerably more attention to the effect of the type and conditions of the timber to be painted than is usual. The difference between hardwoods and softwoods and the amount and distribution of summerwood and springwood are important. In Douglas Fir in particular, bands of summerwood can be troublesome.

In dealing with the paint itself, the Digest lays special emphasis on the importance of the primer. For most softwoods a good grade of white lead linseed oil primer, containing about 10 per cent. of genuine red lead, should be used. Higher proportions of red lead can give trouble in rubbing down to provide a good bond for subsequent coats. The uselessness of adulterated "pink primers" is particularly stressed. The saving in first cost is small, and the use of these primers can lead to a great deal of trouble later.

For Douglas Fir a priming coat of good leafing aluminium paint is recommended, in preference to the normal red lead primer, while for some interior work there is no objection to using leadless primers, if preferred. The use of quick-drying primers on softwoods should be avoided.

There are brief notes on intermediate coats and finishing coats. It is worth noting a recommendation that interior window sills

and frames should be painted with exterior quality materials.

Notes on the painting process itself follow the usual lines and contain little new information, though they are a very good summary of the essential points. It is, perhaps, worth remarking that spray application of priming coats is regarded with suspicion because of the danger of insufficient penetration.

For painting over timber which has been treated with any form of creosote certain proprietary paints are said to be satisfactory in dark colours. For light colours it is suggested that one or two coats of high quality aluminium paint should be used as priming.

16.74 materials: miscellaneous

SAND FOR MORTAR AND PLASTER

Sands for Plasters, Mortars and Renderings.

Ministry of Works Advisory Leaflet No. 15. (HMSO. 1951. 2d.)

Excellent and brief summary of essentials. Good for architects and the man on the site.

Far too little attention is paid to the importance of quality of sand. This leaflet condenses most of the essential information about sand for mortars and plasters into four pages. Note that it does not cover sands for concrete, for which requirements are quite different. The leaflet deals with impurities—iron oxide, iron pyrites, coal dust, mica, etc. Clay is noted as a most troublesome impurity. Some good advice is given on how to recognize, or test on site for, impurities.

Grading is another important quality and is briefly explained. Curiously, there is no explanation or discussion of the term "sharp," so often used in specifications.



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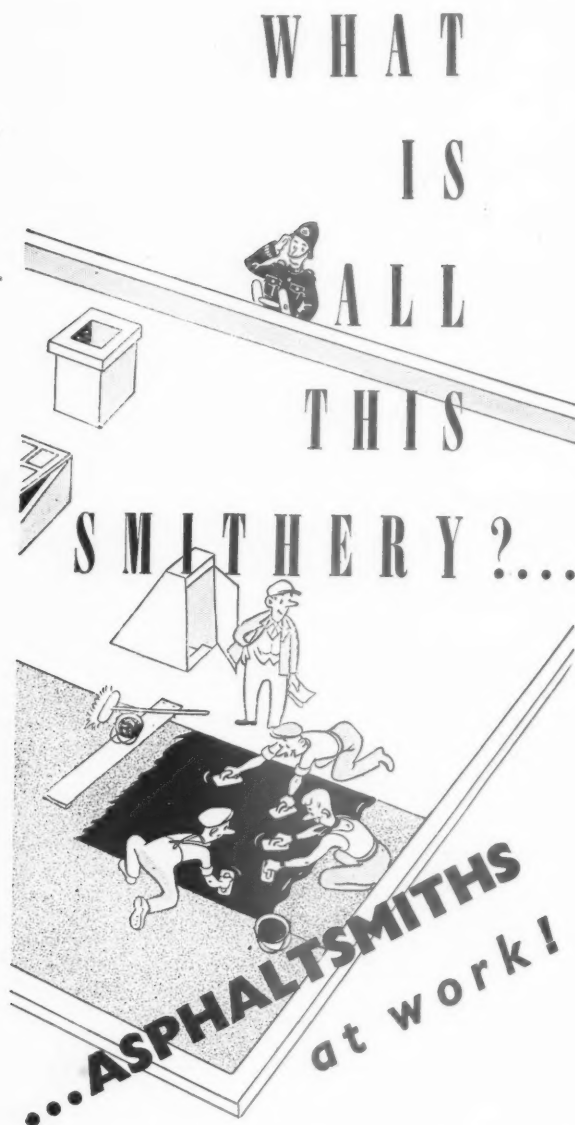
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One of the many dangers facing the building industry today is the danger that high building costs, full employment and excess demand may destroy the British workman's reputation for fine craftsmanship. It is to be hoped that, as Prof. Bowen suggests, far-sighted managements will resist attempts to lower the cost of building by reducing standards.

THE OUTLOOK FOR BUILDING AND CIVIL ENGINEERING

By Ian Bowen

The two most striking features of the building and civil engineering industries in this country are, firstly, their size and economic importance, and, secondly, the fact that, big as they are, they are responsible for only two-thirds of the building and civil engineering work executed in Great Britain. The remaining third is carried out by labour employed directly by local authorities and public utilities and by specialist labour or maintenance staffs of other industries.

THE PRESENT POSITION

The total output of building and civil engineering work in Great Britain was, in 1950, no less than £1,307 millions. Of this, £854 millions was done by "the industry," and the rest by the various types of "direct labour." "The industry," i.e., building and civil engineering (or building and contracting, as the Board of Trade calls it), employed approximately 997,500 operatives in 1950. But this total is now falling, and "direct labour" must account for roughly 450,000 more. Materials bought by the industry amount to nearly 40 per cent. of the value of gross output (according to the Census of Production results for 1945), so we may assume that the industries directly dependent upon building and contracting output received gross receipts totalling to approximately £500 millions in 1950.

This vast activity has to be organized. Some mechanism must exist to make the organization work and, furthermore, this mechanism must operate on sound principles to make the organization efficient. Briefly, the main principle involved is that of competition. Building is kept efficient—to the extent that it is so—partly by private competition and partly by public supervision. (During the last three years the productivity of building labour has increased by 4.6 per cent. per annum.) In 1948 there were about 15,665 private firms with 11 or more employees and they employed between 886,000 persons, an average of 57 persons per firm. In addition, there were tens of thousands of small undertakings. 15,665 should be a large enough number of firms to ensure a considerable degree of competition.

Some sections of the building materials' producers are far more closely organized

than the builders themselves and, in some cases, competition has been severely reduced. Agreements which restrict competition in the supply of rainwater goods were criticized in the recent Monopolies Commission report. The Commission stressed particularly one reason why such agreements were contrary to the public interest; namely, that there were no means left by which savings in production or distribution costs, resulting from bulk buying could be passed on to the consumer.

It is clear that continued improvements in the efficiency of the building and contracting industry will require a new relationship between the industry and its materials' suppliers. But the question of most immediate importance is, how well can the existing organization meet the new demands being put upon it? Its relative success in the past is no guarantee of its continued smooth functioning. The difficulties resulting from a heavy building programme in peace time, with re-armament competing against national, social and private needs, will be different from those of the relatively short peace-time re-armament period from 1937 to 1939, or of the war period itself. What, then, are these special difficulties?

DIFFICULTIES FACING THE INDUSTRY

Firstly, we are still living in a period of what the economists call "excess demand." The demand made on building resources, both by businessmen and by social reformers, exceeds the supply. And on top of this there are the demands of the re-armament and civil defence programmes, which, as was emphasized by the Chancellor of the Exchequer a fortnight ago, are increasing rapidly.

Secondly, the period of general inflation has now lasted eleven years and it will probably continue for a long time to come, although a reduction in political tension might change the position. The consequences of prolonged inflation are more than cumulative. The public gradually becomes accustomed to inflation. Householders and businessmen know how fast building costs are rising and they have their maintenance work done and their extensions built as quickly as possible to avoid paying further increases. Moreover, even a rise in interest rates will not deter them, for they assume that building costs will continue to rise more rapidly than interest rates. To reverse this position, interest rates would have to be increased greatly, but with the present size of Government loans this is impractical, in spite of the fact that many financial journalists advocate such a policy. An alternative method must be found to reduce inflationary pressure on building costs.

Thirdly, we have had full employment for a long time and, although some British workmanship is still of exceptionally high quality, there is undoubtedly a tendency to try and keep costs down by lowering standards. No statistical evidence is available but, with some notable exceptions, standards of finish have declined during the last few years.

The industry is capable of undertaking a large number of new contracts, without undue strain, but, if inflationary profits begin to pile up, some kind of government control is inevitable. (The reductions in the civil building programme, recently announced by Mr. Gaitskell, are surely intended partly as a deflationary measure.) But the industry need not fear that further controls or reductions in the building programme will necessarily mean idleness or short-time; the excess demand will remain for at least another eighteen months. A far graver problem for the future will be rising materials' costs and the consequent pressure to reduce standards. A time will come again when workmanship and quality are strong selling points, and the more far-sighted managements will not seek to keep down costs at the expense of standards.

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Announcements

Percy Gray, partner of the late Arnold F. Hooper, F.R.I.B.A., of the firm of Hooper, Belfrage and Gray, wishes to announce that the practice will continue as hitherto under the same name and at the same address—Norfolk House, Norfolk Street, W.C.2.

Messrs. W. S. Willan and D. A. Stewart, F./A.R.I.B.A., announce that they have taken Kenneth Waite, A.R.I.B.A., into partnership and will in future practise under the style of Willan, Stewart and Waite, from their present addresses at 127, Sandgate Road, Folkestone, and 23, Dane John, Canterbury, Kent.

S. A. Mousley, assistant to Walter White, general sales manager of Dunlop's general rubber goods division in Manchester, who has just retired, has been appointed as the firm's sales manager. During the 1914 war he joined Dunlop in Birmingham as a boy of fifteen and when Fort Dunlop was opened he remained there for eight years, before moving on to Manchester in 1926. Here he held various posts on the sales side until his appointment as Mr. White's assistant three years ago.

Francis A. Kerr, D.A. (EDIN.), A.R.I.B.A., is now practising from 6, Albert Road, Eccles, Manchester (Eccles 3933), and will be pleased to receive trade catalogues, etc., at that address.

The Overseas Architects Service announces that as it is now acting in the United Kingdom on behalf of firms of engineers, quantity surveyors and contractors and of municipalities abroad, in addition to architects and planners, it has changed its name to the Overseas Technical Service. The address remains 5, Welldon Crescent, Harrow, Middlesex. Cables: Service, Harrow.

The address of the southern technical representative of Messrs. Stramit Boards, Ltd., is now G. W. H. Haines, Salisbury House, 229, Cheriton Road, Folkestone, Kent.

Mr. A. J. Barker, A.R.I.B.A., would be pleased to receive trade catalogues at the Chief Engineer's Office, Northern Command, Fishergate House, Fulford Road, York.

Dr. R. Genders, M.B.E., D.MET., F.R.I.C., F.I.M., is now associated as consultant metallurgist with Messrs. Sandberg, 40, Grosvenor Gardens, S.W.1, in connection with their recently reopened analytical laboratories and test house covering engineering and building materials.

On June 16, members of the Hertfordshire Chapter of the Essex, Cambridge and Herts. Society of Architects visited the New Town at Hemel Hempstead. Mr. Ablett, F.R.I.B.A., M.T.P.L., chief architect of the Development Corporation was present and visitors were shown the Residential and Industrial sections of the work. The Herts. Chapter were joined by members of the Bucks. Society.

Mr. A. J. Kernan, A.R.I.C.S., chartered quantity surveyor, of 15, College Green, Dublin, would be glad to receive trade catalogues.

We regret to announce the death of H. A. R. Ellis, F.R.I.B.A., on June 10. Mr. Ellis, who was 76, practised in Birmingham for many years as well as in Taunton, where he held the appointment of ecclesiastical surveyor to the diocese of Bath and Wells.

Mr. Wm. Leighton Gibbins, A.R.I.B.A., of Exeter, has changed his office address to 45, North Street, Exeter. His present telephone number, Exeter 56748, will be retained.

Correction

The present address of the manufacturers of the Twenty-to-One Table, illustrated and described in last week's "Industry," is 16, Bolton Street, W.1, not 7, Victoria Street, S.W.1, as stated.

Buildings Illustrated

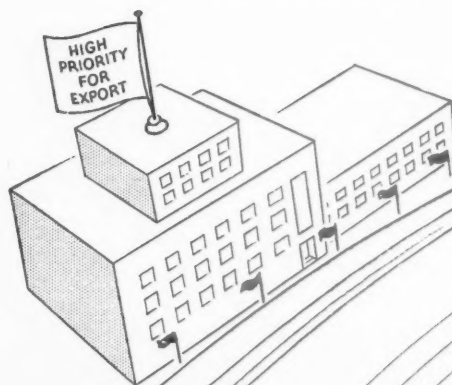
International Trade Club, Westminster Bridge Road, London, S.E.1. (Page 11.)

Architect: Douglas L. Dick, F.R.I.B.A. General Contractors: main structure, M. J. Gleeson (Contractors) Ltd.; walling and interiors, City Display Organization. Sub-contractors: reinforced concrete, structural steel, M. J. Gleeson (Contractors) Ltd.; bricks, London Brick Co. Ltd.; aluminium roof sheeting, Bucks and Middlesex Estates Ltd.; roofing felt, Egbert & Rolfe; partitions, woodblock flooring, signs, door furniture, plaster, City Display Organization; electric wiring, C. D. Electric Co. Ltd.; electric light fixtures and heating, Philips Electrical Ltd.; sanitary fittings, Doulton & Co. Ltd.; casements, Williams & Williams Ltd.; decorative plaster, J. & H. Ward (Architectural Plasterer); joinery, Gaskell & Chamber (London) Ltd.; tiling, Carter & Co. (London) Ltd.; textiles, Liberty & Co. Ltd.; Hampton & Sons Ltd., Chas. Lesley; wallpapers, Arthur Sanderson & Sons, Ltd.; John Line & Sons Ltd.; furniture, Liberty & Co. Ltd., Hampton & Sons Ltd., David Joel Ltd., Goodearl Bros. Ltd.; shrubs and trees, Oakbeams Market Garden; clocks, S. Smith & Sons (England) Ltd.; external paint work, Ferrex Ltd.; insulated walling, C. F. Anderson & Sons Ltd.

Showrooms at 103, Mount Street, W.1. (Page 12.) Architect: J. Woolton (Heals Contracts Ltd.). General Contractor: Heals Contracts Ltd. Sub-contractors: Metal partitions, Frederick Braby & Co. Ltd.; glass blocks, door furniture, plaster, joinery, mantels, furniture, Heals Contracts Ltd.; electric light fixtures, Troughton & Young, Ltd.

New Research Laboratories for London Brick Company Ltd., at Stewartby, near Bedford. (Pages 15-19.) Architect: Cecil C. Handiside, A.R.I.B.A., A.A.D.P., Assistant in charge: B. D. A. Taylor, A.R.I.B.A., A.A.D.P. Consulting Engineer: S. M. Cleator, M.I.STRUCT.E. Heating Consultant: John Porges, M.I.MECH.E., M.I.NST.E. Lighting Consultant: J. Bickerdike, A.R.I.B.A., A.A.D.P. General Contractor: Robert Marriott, Ltd. Sub-contractors: Special heat resisting paint, Pilchers Ltd.; sanitary goods, Dent & Hellyer Ltd.; window furniture, Yannedis & Co. Ltd.; door furniture, Rennis, Ltd.; hand operated 2 ton overhead mobile crane, Herbert Morris Ltd.; bronze casement windows, Williams & Williams Ltd.; plastic lettering, The Lettering Centre; slate facing slabs, The Broughton Moor Green Slate Quarries Ltd.; laboratory furniture, The North of England School Furnishing Co. Ltd.; teak wood block flooring, Stevens & Adams Ltd.; triplex bituminous roofing, D. Anderson & Son Ltd.; hollow tile roofing, Flooring Contracts (London) Ltd.; heating, The Norris Warming Co. Ltd.; iroko teak, James Latham Ltd.; buff quarry tiles, J. C. Edwards "Ruabon" Ltd.; door mats, National Institute for the Blind; electric clocks, Richard & Tucker Num Ltd.; wall-paper, John Line & Sons Ltd.; electrical installations, London Brick Co. Ltd.; blinds, Accordo Blinds, Ltd.; light fittings, Savage & Parsons Ltd., Troughton & Young (Lighting) Ltd.; dining room furnishings, Story & Co. Ltd.

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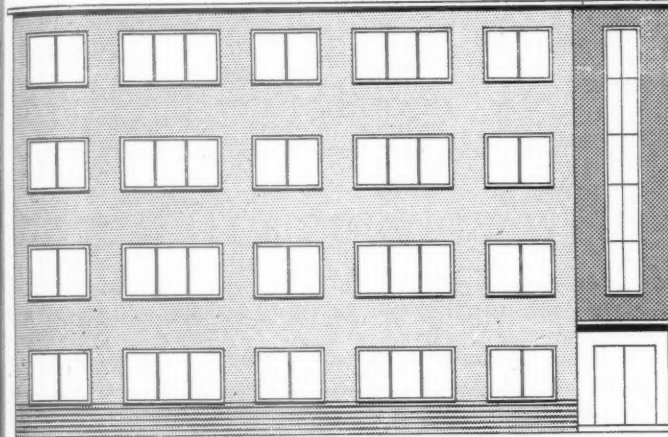
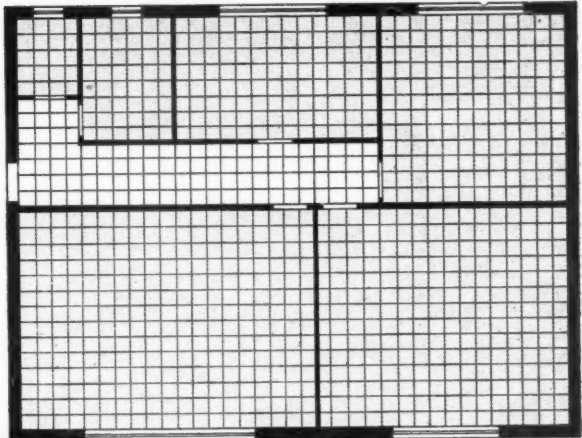
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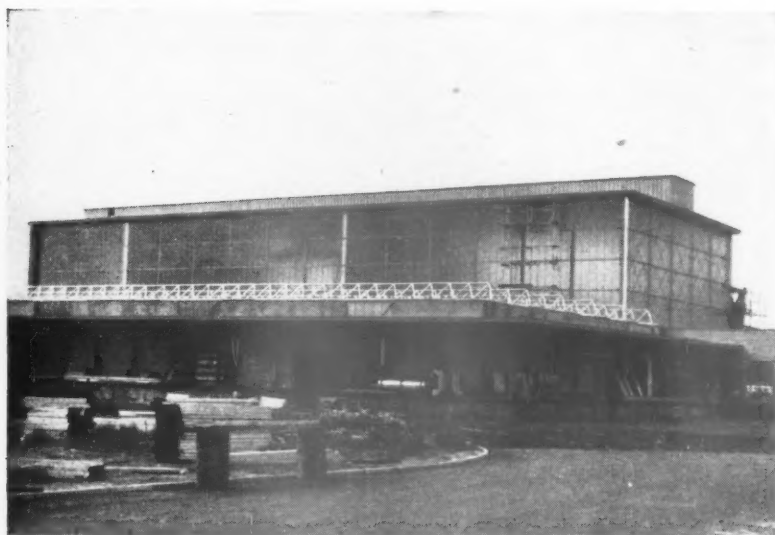
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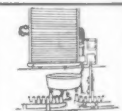
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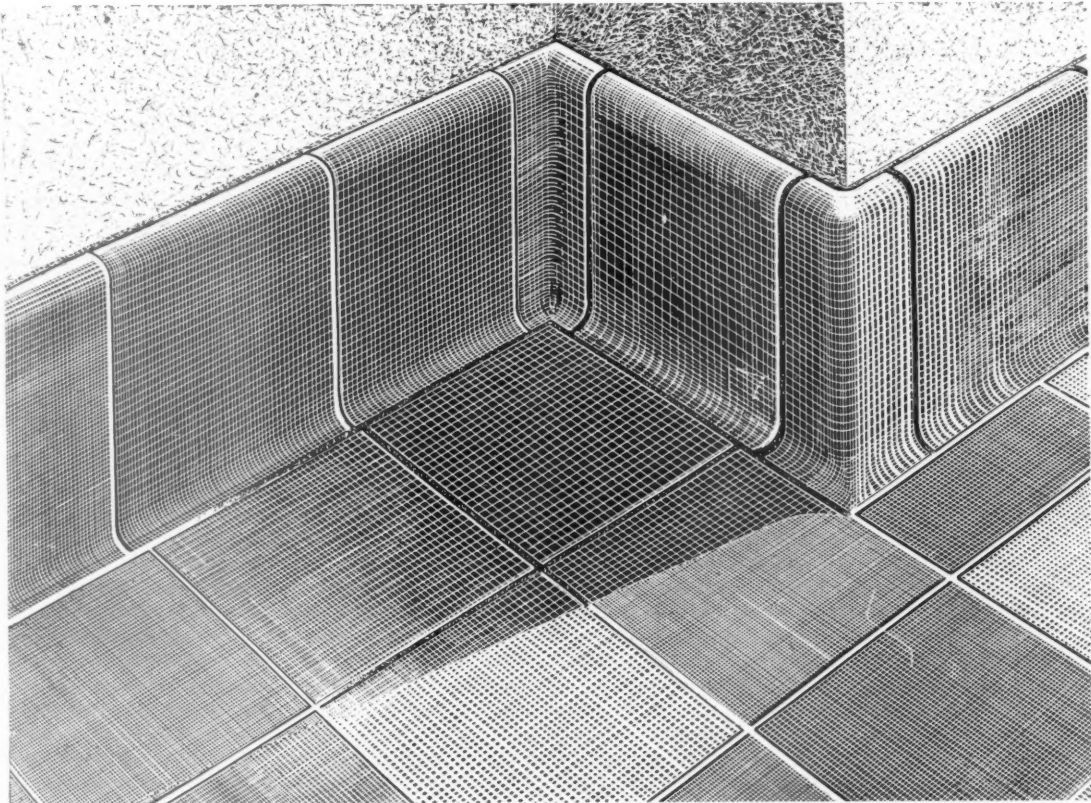


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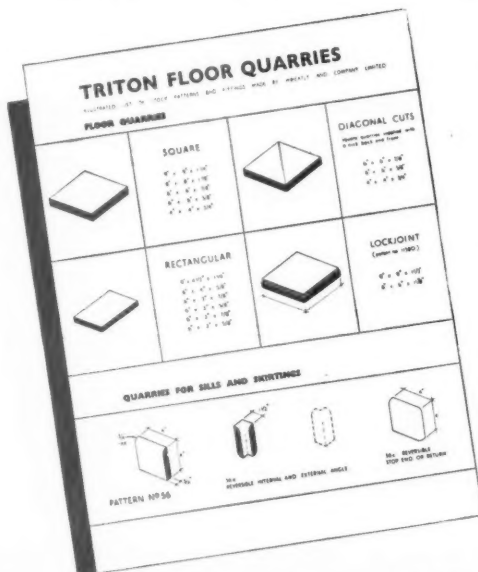
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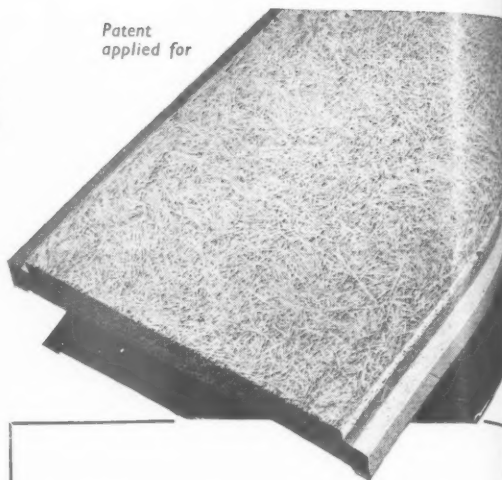
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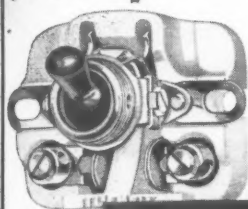
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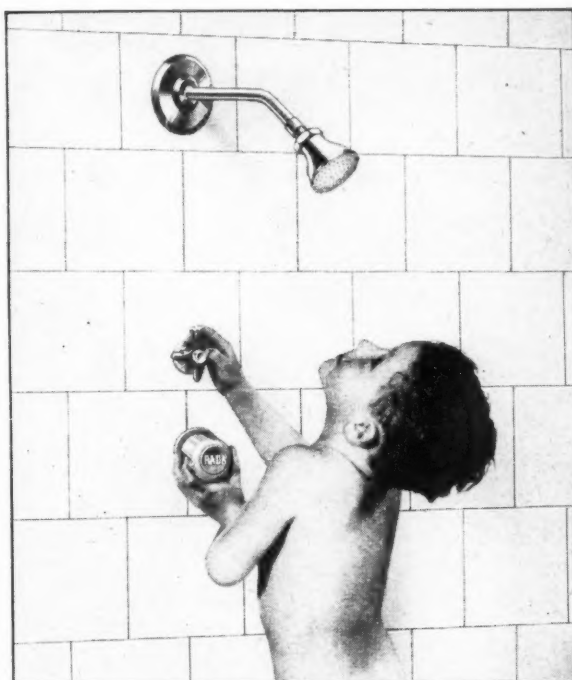
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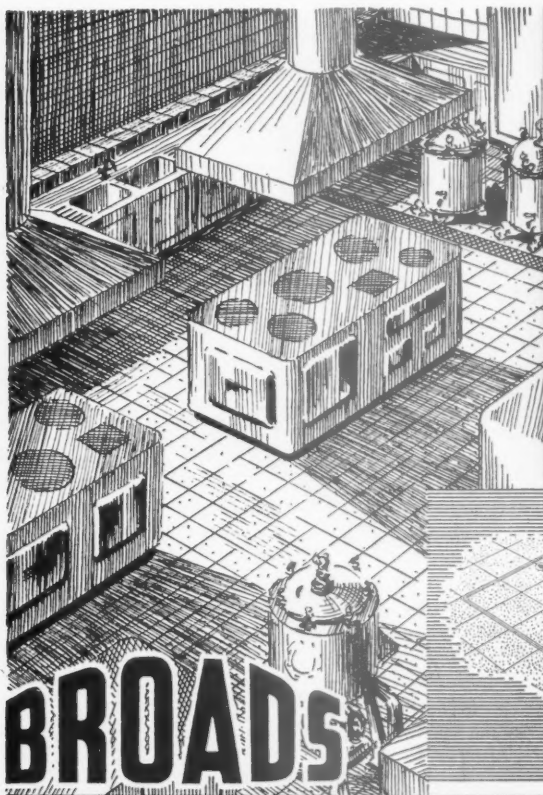
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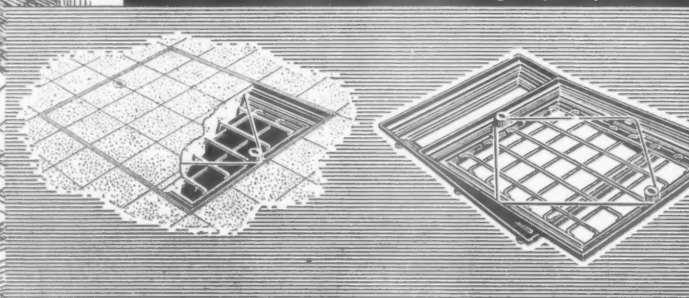


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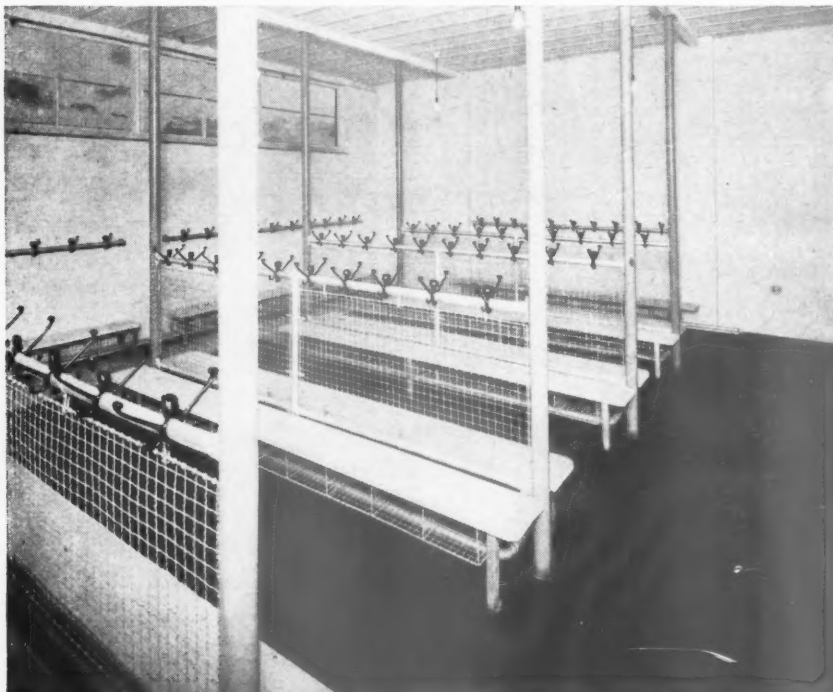
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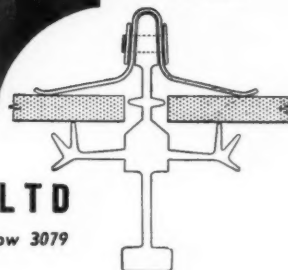
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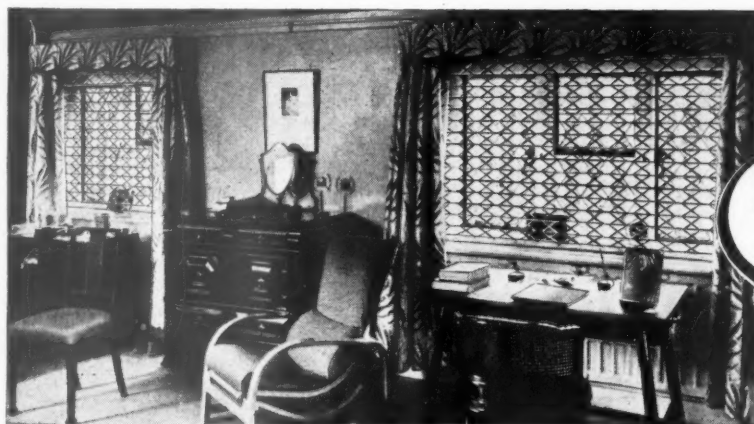
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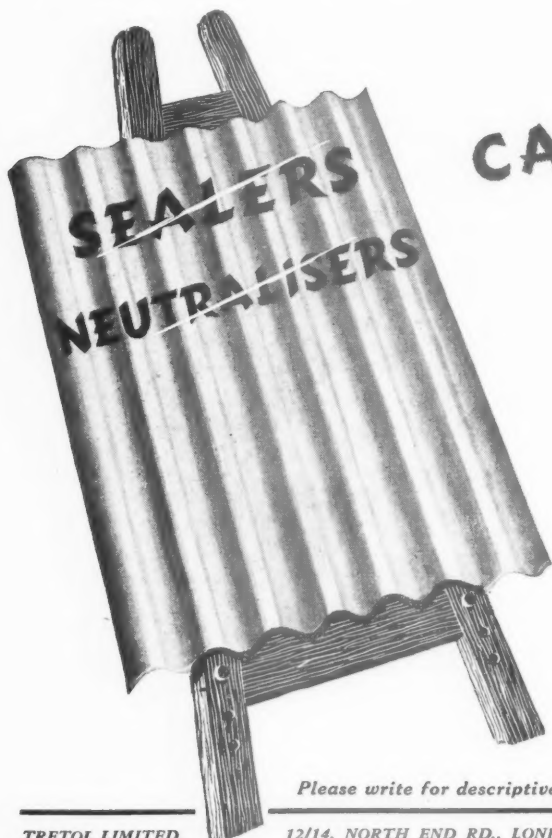
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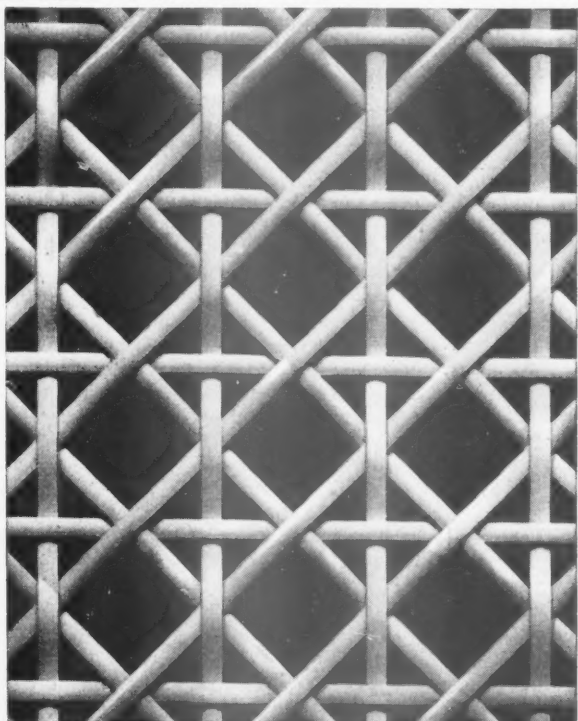


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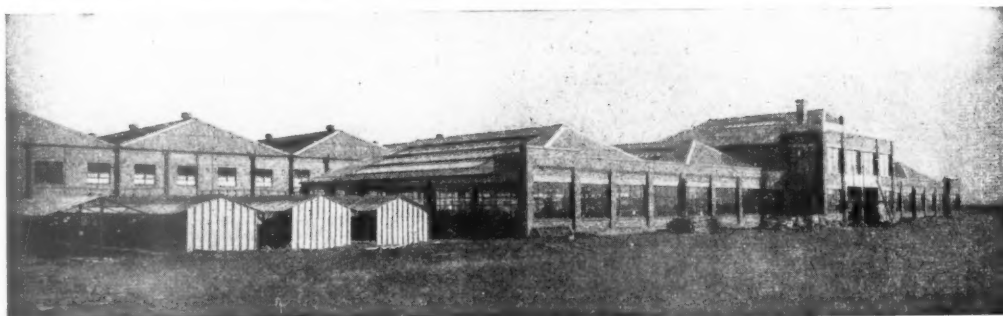
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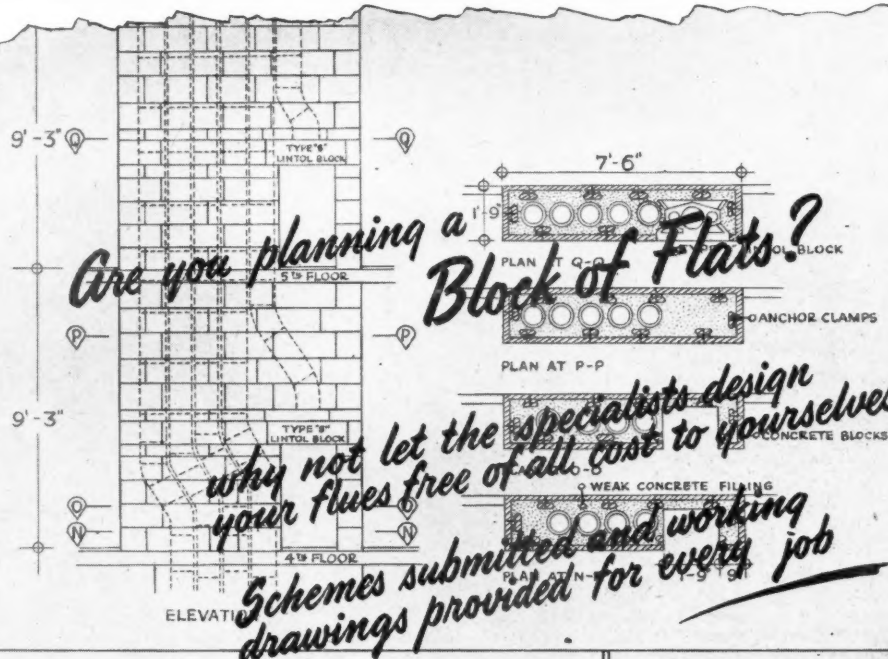
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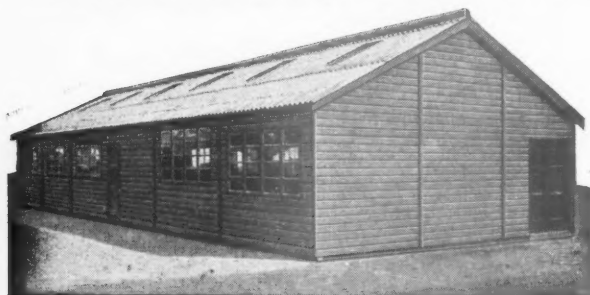
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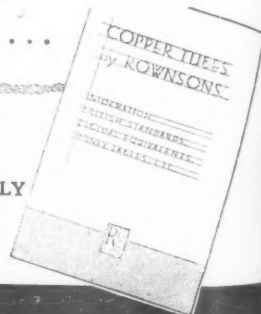
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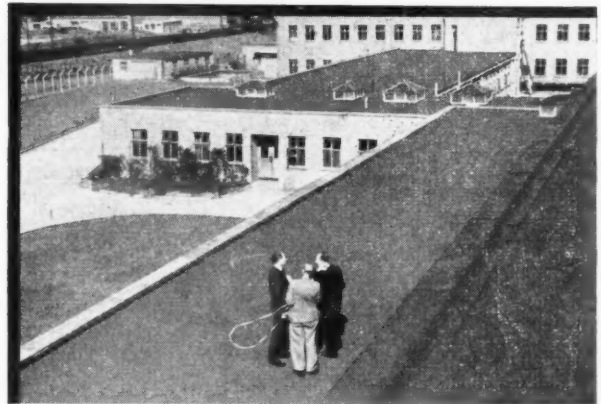
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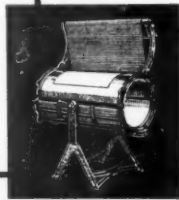
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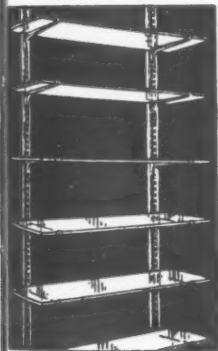


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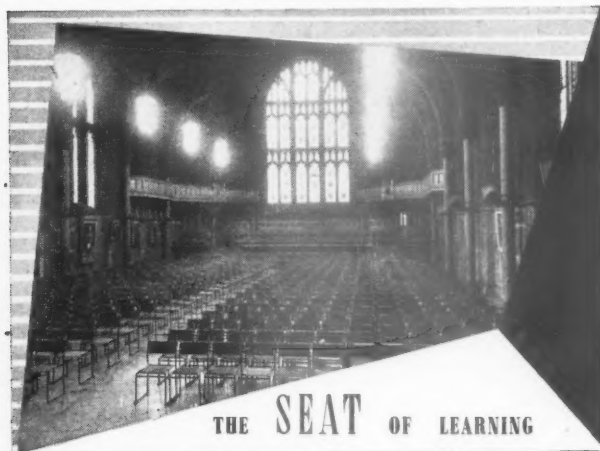
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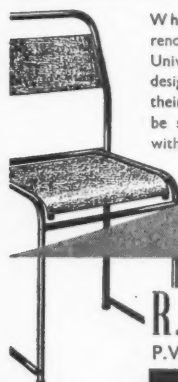
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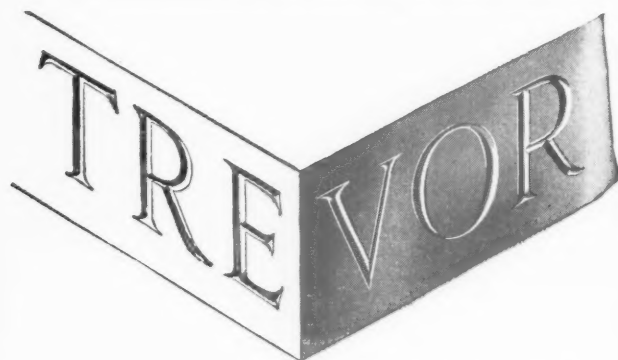
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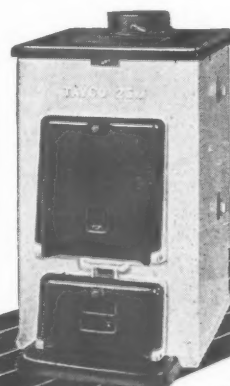


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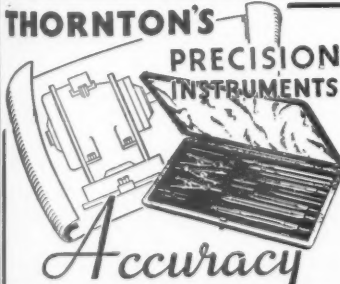
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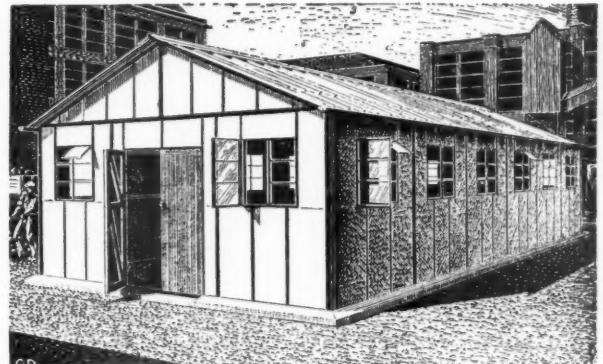
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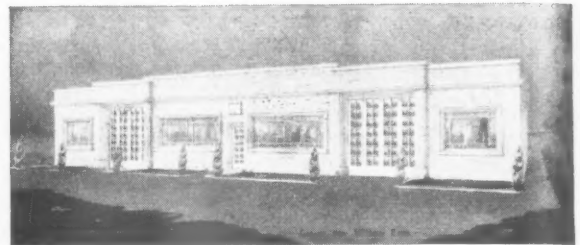
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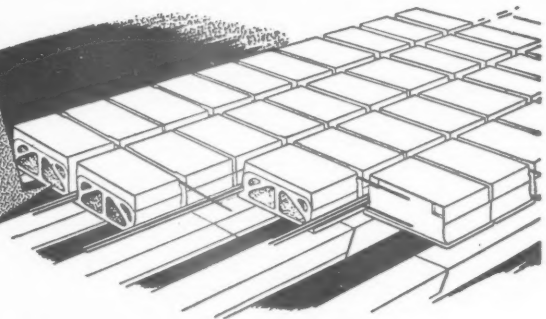
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Replying to Box Numbers should be addressed to "The Architects' Journal," at the address given above.

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LONDON COUNTY COUNCIL.
Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 basic a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

All rates of pay up to £600 a year (basic) are at present subject to an addition of 10 per cent. Successful candidates will be required to assist in the design, layout and preparation of working drawings for housing schemes, cottages and multi-storey flats, and will be employed in the Housing Architect's Division.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required and quote reference A.A.1). (Canvassing disqualified). 2615

BOROUGH OF BARNES.
APPOINTMENT OF PERMANENT ARCHITECTURAL ASSISTANT (GRADE III).
Applications are invited for the above-mentioned appointment on the salary scale of £500-£215-£545, plus London weighting allowance. Applicants should have passed the R.I.B.A. Intermediate Examination and have had three years' approved experience.

Applicants who have partly completed the above examination will be considered, but if appointed will be placed on a lower grade until the required qualifications are obtained. Applications, giving the names of three persons to whom reference can be made, should be addressed to the undersigned not later than Friday, 13th July, 1951.

The Council is unable to provide housing accommodation.

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Borough Engineer and Surveyor.
Municipal Offices, Barnes Lane,
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The posts have been graded under the National Joint Board agreement of the 17th February, 1950, as Grade V (Schedule C). Salary range: £507 19s. to £814 16s. per annum inclusive, the commencing salary being dependent upon qualifications and experience. This grading is subject to the approval of the District Joint Board and confirmation by the National Joint Board.

Application forms obtainable from Establishments Officer, 46, Broad Street, E.C.2, to be returned duly completed within 10 days from the appearance of this advertisement. Please enclose addressed foolscap envelope and quote Ref. EST/V/1216/A on envelope and all correspondence. 2929

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ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) **SECOND ARCHITECTURAL ASSISTANT.** Grade A.P.T. IV (£530-£575 per annum).
(b) **ARCHITECTURAL ASSISTANT.** Grade A.P.T. III (£500-£545 per annum).

Applicants for both appointments must have had previous Municipal experience, and have been trained in the office of a Municipal Engineer, Architect or Surveyor, and be experienced in Municipal Housing and General Architectural work. Applicants for appointment (a) must have the qualifications specified by the National Conditions of Service.

The appointments are subject to the National Scheme of Conditions of Service and the Local Government Superannuation Act, 1937. The successful applicant in each case will be required to undergo a medical examination.

If required, housing accommodation will be provided.

Forms of Application may be obtained from the undersigned, and must be returned endorsed for the appointment for which application is made, and accompanied by copies of two recent testimonials, to reach the undersigned not later than first post on Thursday, the 12th July, 1951.

J. W. GRAY,
Clerk of the Council.
Council Offices, Easington, Co. Durham. 2966

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

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Applications are invited for the following appointments:—

(1) **ARCHITECTURAL ASSISTANT, Grade A.P.T., VI.** The appointment will, in the first instance, be on the Temporary Establishment, with prospects of transfer to the Permanent Establishment.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification. Preference will be given to those having a general knowledge and experience of Architectural work in the service of a Local Authority.

(2) **ARCHITECTURAL ASSISTANT, Grade A.P.T., V.** The appointment will be on the Permanent Establishment. Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have a general knowledge and experience of Architectural work in the service of a Local Authority.

(3) **ARCHITECTURAL ASSISTANT, Grade A.P.T., III.** The appointment will be on the Permanent Establishment. Candidates must have served Articles of Apprenticeship or have worked in an architectural office for a minimum period of three years, and have passed the Intermediate Examination of the Royal Institute of British Architects or its equivalent at one of the recognised schools of architecture.

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

Applications, stating age, qualifications and experience, accompanied by copies of not more than three testimonials, should be addressed to the undersigned, endorsed "Architectural Staff," not later than 10 a.m. on Monday, 16th July, 1951.

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

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

(Sgd.) **R. S. FORSTER,**
Town Clerk.
Town Hall, Dyne Road, Kilburn, N.W.6.
18th June, 1951. 2903

HERTFORDSHIRE COUNTY COUNCIL. PLANNING DEPARTMENT.

Applications are invited for the following permanent appointment:—

PLANNING ASSISTANT, Grade II, A.P.T. (£500-£15 to £545).
Applicants must have had previous experience in a Planning Office, be competent draughtsmen and students of the T.P.I., I.C.E., I.Mun.E., R.I.B.A. or R.I.C.S., or have had special training at a University or Technical College. Persons holding the Intermediate Examination of one of these Institutions or qualifications of equivalent standard will be given preference.

The successful applicant will be required to work at Hertford. Forms are available on application to the County Planning Officer, County Hall, Hertford, to whom they should be returned not later than Thursday, 26th July, 1951. 2959

NORTHERN POLYTECHNIC, HOLLOWAY, LONDON, N.7.

The Governing Body invite immediate applications for appointment to the full-time staff of the School of Architecture as under. Applicants must be Associates or Fellows of the Royal Institute of British Architects, have received the whole or part of their training in a Recognised School, and have had some professional experience. Previous teaching experience is not essential, but will be considered a qualification for appointment in one of the higher grades.

ASSISTANT, Grade B:

Studio Master in the First Year.
Salary £546-£835 per annum; commencing salary according to previous teaching and professional experience.

LECTURER:
Studio Master in the Third Year, with additional duties as lecturer in one of the following: Theoretical Construction, History of Architecture, Theory of Architecture.

Salary £936-£1,048 per annum.

SENIOR LECTURER:
Studio Master in the Fourth Year, with additional duties as lecturer in one of the following: Advanced Construction, Professional Practice, Town Planning.

Salary £1,036-£1,198 per annum.

Form of Application, together with full particulars, will be forwarded on receipt of a stamped, addressed foolscap envelope. Applicants should state in which post they are interested.

R. H. CURRELL,
Clerk. 2968

THE UNIVERSITY OF MANCHESTER.

Applications are invited for the following posts:—

ONE ASSISTANT LECTURER IN ARCHITECTURE AND ONE ASSISTANT LECTURER IN TOWN AND COUNTRY PLANNING.

Salary scale £450-£25-£500. Membership of F.S.S.U. and Children's Allowance Scheme. Applications to be submitted not later than 21st July, 1951, to the Registrars, the University, Manchester, 13, from whom further particulars and application forms may be obtained. 2952

BOROUGH OF CHESTERFIELD. ARCHITECTURAL ASSISTANT.

Architectural Assistant in the Borough Engineer and Surveyor's Department. Salary A.P.T. III £500/£15/£545 (A.P.T. III). Successful candidate will be encouraged to study for the examination of the R.I.B.A. and will be required to assist in the design, layout, and preparation of drawings for housing schemes and general architectural work. Appointment subject to the provisions of the Local Government Superannuation Act, 1937, and to medical examination. Applications with copies of three testimonials endorsed "Architectural Assistant" to reach the Borough Engineer and Surveyor, Town Hall, Chesterfield, by 21st July, 1951. Candidates must disclose in writing whether to their knowledge they are related to any member or official of the Council. Canvassing, directly or indirectly, will disqualify.

RICHARD CLEGG,
Town Clerk.
Town Hall, Chesterfield.
June, 1951. 2987

QUANTITY SURVEYING ASSISTANTS (FRANCE).

IMPERIAL WAR GRAVES COMMISSION.
Applications are invited from suitably qualified candidates for posts of Quantity Surveying Assistants in the French District.

Candidates should have had experience with a Builder or Contractor or in a Quantity Surveyor's office (in addition to any whole time study in a recognised school). Candidates must produce evidence of professional study to the required standard. A knowledge of the French language is desirable. Salary £570-£20-£675 per annum.

There is, in addition to salary, a temporary variable allowance of £180 per annum for a single man or £320 per annum for a married man.

Applications to be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks., within 14 days of the appearance of this notice. 2969

THE ROYAL BOROUGH OF KENSINGTON. APPOINTMENT OF ENGINEERING AND ARCHITECTURAL ASSISTANTS.

Applications are invited from suitably qualified persons for the following appointments on the permanent establishment of the Borough Engineer's Department:—

(a) Two Civil Engineering Assistants, Grade V, £570-£620 p.a.

(b) Architectural Assistant, Grade V, £570-£620 p.a.

Plus London Weighting allowance of £20 or £30 according to age.

Applicants for appointments (a) above should hold the B.Sc. Degree in Civil Engineering or be Corporate Members of the Institution of Civil Engineers, or the Institution of Municipal Engineers, and have had general experience in municipal engineering.

Applicants for appointment (b) above should be Corporate Members of the Royal Institute of British Architects or the Royal Institution of Chartered Surveyors (Building Section) and have had experience in municipal housing.

The appointments are superannuable and subject to medical examination.

Applications stating age, qualifications, experience and present and past appointments, together with the names of two referees, must be received not later than ten days from the publication of this advertisement.

The Council are not in a position to provide the successful candidates with housing accommodation.

Canvassing directly or indirectly will disqualify.

J. WARING SAINSBURY,
Town Clerk. 2989
Town Hall, Kensington, W.8.

DERBYSHIRE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for appointments of ARCHITECTURAL ASSISTANTS, on A.P.T. Grades III, I, and the General Division. Land Surveying experience is desired for one of the General Division appointments. **QUANTITY SURVEYORS, A.P.T. Grade VI, and A.P.T. Grade III.** Applications to reach this office not later than 17th July, 1951. Application forms to be obtained from F. H. Crossley, County Architect, St. Mary's Gate, Derby.
5th July, 1951. 2970

HAWARDEN RURAL DISTRICT COUNCIL. ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Architect and Surveyor's Department, from persons preferably with previous experience in Municipal housing and other architectural work of a Local Authority.

The salary payable will be in Grade A.P.T. V, and in accordance with the Grading of Special Classes of Officers (Para. 13) of the National Scheme of Conditions of Service.

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

A house may be allocated to the successful candidate within 3 months of the appointment.

Applications, giving the names and addresses of two referees to whom reference can be made, must reach the undersigned not later than the 16th July, 1951. Canvassing will disqualify.

L. G. WATSON,
Clerk to the Council.
Council Offices, Hawarden, near Chester.
25th June, 1951. 2951

DENBIGHSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
The above County Council invites applications for the under-mentioned appointments in the County Architect's Department, Wrexham, viz.:-
ONE SENIOR ASSISTANT ARCHITECT. A.P.T. Division, Grade IX. Salary: £750-£910 per annum.

Associates R.I.B.A. must have had thorough training in architectural design and construction of Modern school buildings, and other works carried out by County Authorities, and must be capable of taking full charge of one Drawing Office comprising at least 10 assistants.

ONE SENIOR ASSISTANT ARCHITECT. A.P.T. Division, Grade VII. Salary: £685-£760 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in architectural design and construction of Modern school buildings, and other works carried out by County Authorities.

TWO SENIOR ASSISTANT ARCHITECTS. A.P.T. Division, Grade VI. Salary: £645-£710 per annum.

Preference will be given to Associates of R.I.B.A. Applicants must have had a thorough training in architectural design and some experience in the construction of Modern school buildings, and other works carried out by County Authorities.

ONE ASSISTANT ARCHITECT. A.P.T. Division, Grade IV. Salary: £530-£575 per annum.

Preferably Members of R.I.B.A. Must have had good experience in architectural design and in the preparation of working drawings and details.
ONE ASSISTANT QUANTITY SURVEYOR. A.P.T. Division, Grade V. Salary: £570-£620 per annum.

Candidates should be Members of the Royal Institution of Chartered Surveyors (Quantities Section), and must show evidence of special ability and experience as a taker-off for all types of building works undertaken by a County Authority.

In addition, he should be familiar with and will be required to undertake "working-up" in all stages, specification writing, measurement of work on site, final accounts, and the preparation of cost statistics.

ONE SPECIFICATION WRITER. A.P.T. Division, Grade V. Salary: £570-£620 per annum.

Applicants must have had architectural and Quantity Surveying experience, and possess a thorough knowledge of current Building Practice and Materials.

They must be fully capable of preparing detailed Specifications for Building and Painting works of all descriptions in connection with County Council properties, and be able to prepare enquiries and deal with Provisional Sum Items in connection with new building projects.

The successful applicant will also be required to assist generally in the Quantity Surveyor's Department.
ONE LANDS AND BUILDINGS SURVEYOR. A.P.T. Division, Grade V. Salary: £570-£620 per annum.

Preference will be given to Members of the Royal Institution of Chartered Surveyors, Sub-Division III (Building).

Applicants must be fully capable of producing accurate surveys of building sites, and sites in respect of water and sewage schemes; preparation of survey plans, site lay-outs and reports and estimating cost of site works; measuring up and surveying existing buildings and preparation of reports.

The appointments are subject to (a) the National Conditions of Service for Local Government Administrative, etc., Officers, (b) the Local Government Superannuation Act, 1937, (c) the passing of a medical examination, and (d) one calendar month's written notice on either side to expire at the end of a calendar month.

Applications, giving age, qualifications and particulars of present and previous appointments, and accompanied by copies of three recent testimonials, to be sent to the undersigned, by not later than the 25th day of July, 1951.

W. E. BUFTON,

Clerk of the County Council.
County Offices, Ruthin. 2960
16th June, 1951.

BOROUGH OF LUTON.
BOROUGH ENGINEER'S DEPARTMENT.
SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the post of Senior Architectural Assistant (A.P.T. Grade VII, £685 x £25-£760 per annum). Applicants should be A.R.I.B.A. and have extensive Municipal experience, especially in housing and/or school works.

Housing accommodation will be made available to the successful candidate if required. The appointment will be subject to the Local Government Superannuation Act, 1937, to the National Scheme of Conditions of Service, and to the successful candidate passing a medical examination.

Applications, appropriately endorsed, giving details of age, qualifications, experience, previous posts, present appointment and salary, and accompanied by names of three persons to whom reference may be made, should be sent to the Borough Engineer, Town Hall, Luton, not later than first post on Monday, the 16th July, 1951. Canvassing will disqualify. Applicants must disclose whether they are related to any member or senior officer of the Council.

W. H. ROBINSON,

Town Clerk.
Town Hall, Luton.
23rd June, 1951. 2941

CITY OF COVENTRY.
ARCHITECTURAL AND PLANNING DEPARTMENT.
APPOINTMENT OF CLERKS OF WORKS.
Applications are invited for the appointment on a temporary basis of persons with an extensive building experience in the capacity of Clerks of Works for the inspection and supervision of building under the control of the Housing Committee.

The salary grade is according to A.P.T. III of the National Scales (£500 rising by annual increments of £15 to a maximum of £545).

Applications must be made on forms obtainable from the undersigned and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Monday, 16th July, 1951.

D. E. E. GIBSON,

City Architect and Planning Officer.
1a, Warwick Row, Coventry.
27th June, 1951. 2984

CITY OF COVENTRY.
ARCHITECTURAL AND PLANNING DEPARTMENT.

Applications are invited from qualified persons for the appointment of a QUANTITY SURVEYING ASSISTANT on Grade A.P.T. VII (£465 to £25 to £760 per annum).

The contracts in hand in the Department are varied and interesting and housing accommodation may be made available in certain circumstances to the successful applicant if so desired.

Applications should be made on forms obtainable from the undersigned and should be received not later than Monday, 16th July, 1951.

D. E. E. GIBSON,

City Architect and Planning Officer.
1a, Warwick Row, Coventry.
27th June, 1951. 2983

CITY OF PORTSMOUTH.
CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the City Architect's Department:-

(a) ASSISTANT QUANTITY SURVEYOR. Grade VII (£685-£760).

(b) ASSISTANT QUANTITY SURVEYORS. Grade VI (£645-£710).

(c) ASSISTANT QUANTITY SURVEYOR. Grade V (£570-£620).

(d) JUNIOR ASSISTANT QUANTITY SURVEYOR. Grade I (£440-£485).

(e) PRINCIPAL ASSISTANT ARCHITECTS. Grade VI (£645-£710).

(f) ASSISTANT ARCHITECT. Grade V (£570-£620).

(g) ARCHITECTURAL ASSISTANTS. Grade I (£440-£485).

Applicants for (a) and (b) should be Professional Associates of the Royal Institution of Chartered Surveyors, qualified in the Quantities Sub-Division; for (c) should be experienced in taking off, abstracting, billing, estimating, etc.; for (d) should have had experience in a Quantity Surveyor's office.

Applicants for (e) and (f) should be Associates R.I.B.A., and for (g) should be preparing for the Intermediate Examination.

A special subsistence allowance may be paid to a married applicant for a period of six months after taking up the appointment if he is unable to secure housing accommodation immediately.

Applications, setting out in tabular form name, age, qualifications, present post and salary, previous posts with dates, details of experience, with names of three referees, must be delivered to the undersigned not later than 10 a.m. on Tuesday, 17th July, 1951.

Canvassing will disqualify.

V. BLANCHARD,

Town Clerk.
City Council Chambers,
1, Clarence Parade, Portsmouth.
26th June, 1951. 2977

COUNTY BOROUGH OF DERBY.
BOROUGH ARCHITECT'S DEPARTMENT.

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

(a) SENIOR QUANTITY SURVEYOR, Grade VI. Salary £645-£710. Applicants should be Chartered Quantity Surveyors or prospective, and be fully experienced in the preparation of quantities, specifications, site measuring and estimates.

(b) JUNIOR QUANTITY SURVEYOR, Grade III/IV. Salary £500-£620. Applicants should be of R.I.C.S. Intermediate Examination standard, and be fully experienced in abstracting and billing, measuring on site, preparation of final accounts and taking off quantities for small building works.

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

Forms of application may be obtained from the Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 23rd July, 1951.

Canvassing directly or indirectly will be a disqualification.

E. H. NICHOLS,

Town Clerk.
2988

CORPORATION OF LONDON.
APPOINTMENT OF ARCHITECTURAL AND SURVEYING ASSISTANT - AUXILIARY STAFF.

Applications are invited for the appointment of an ASSISTANT within the range of the General Grade, maximum salary of £540 at age 30 years, commencing salary related to age by minimum age 23 years. Applicants should have had good office experience and have passed or be preparing for Intermediate R.I.B.A. or R.I.C.S. Examination.

The appointed officer will require to pass a medical examination and to contribute to the Corporation's Superannuation Fund as maintained under the City of London (Various Powers) Act, 1931 and 1950.

Applications, giving full personal details, particulars of qualifications, experience, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/56, Moorgate London, E.C.2, not later than the 23rd July, 1951.

BOROUGH OF TOTTENHAM.
ARCHITECTURAL SECTION.

Applications are invited for the following vacancies:-

Established post:-

(a) SENIOR ARCHITECT. Grade A.P.T. VIII (£735-£810).

Unestablished post:-

(b) ARCHITECTURAL ASSISTANT. Grades A.P.T. II, III, or IV (£470-£575). (Plus London weighting allowance of £10 to £30, according to age.)

Qualifications required:-

Post (a) Applicants must hold an appropriate final professional qualification.

Post (b) The terms of the decisions of the National Joint Council for Local Authorities Professional Services, dated 26th July, 1949, will apply, particulars of which will be forwarded with the application form.

The Council are unable to offer housing accommodation.

Form of application, conditions of Appointment, and further particulars may be obtained from the Borough Engineer, Town Hall, Tottenham, N.15, to whom completed applications should be delivered not later than Monday, 16th July, 1951.

M. LINDSAY TAYLOR,

Town Clerk.

CITY OF BIRMINGHAM EDUCATION COMMITTEE.
APPOINTMENT OF DISTRICT BUILDING WORKS SUPERVISOR.

Applications are invited for the appointment of a District Building Works Supervisor in the Architect's Branch of the Birmingham Education Department (Architect to the Committee: Mr. A. Steele).

Salary: A.P.T. IV (£530 x £15-£575).

Applicants will be required to have a general knowledge of the building trade and particularly of those branches required for the carrying out of repairs and alterations. They should be competent to inspect work, assess requirements, supervise labour and contractors' work.

Application forms, which may be obtained from the undersigned on receipt of a stamped, addressed envelope, must be returned not later than Thursday, 19th July.

E. L. RUSSELL,

Chief Education Officer.

The Education Office, Margaret Street, Birmingham, 3. 2951

SOUTHERN ELECTRICITY BOARD.
Applications are invited for the following post:-

SENIOR DRAUGHTSMAN

Sub-Area Engineer's Department, Bournemouth. Provisional salary £500 per annum, subject to adjustment. Conditions of service as prescribed by the Board from time to time.

Candidates should have had training and experience in the design and construction of buildings and civil engineering works of an industrial type generally, and in addition, although this is not essential, some experience in the construction of electricity showrooms and offices. Experience in taking off quantities, preparing bills of quantities and of checking building and civil engineering contractors' accounts is essential.

Applications on forms obtainable from the Sub-Area Secretary, 1, Priory Road, Bournemouth, and returned to him not later than July 16, 1951.

The successful candidate will be required to contribute to the B.E.A. and Area Boards' Superannuation Scheme, if eligible.

F. W. KEMPTON,

Secretary. 2989
5th July, 1951.

Partnership

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

CHARTERED STRUCTURAL ENGINEER AND SURVEYOR, with established practice in Horsham and London, seeks Partner or Partnership in another practice with view to amalgamation. Work embraced includes reinforced concrete and structural steelwork design, architectural work, surveys and valuations. R. D'Arcy Swanston, M.I.Struct.E., F.I.A.S., F.I.S.E., M.R.San.I., 13, East Street, Horsham.

PARTNERSHIP required in South-West by energetic Member R.I.B.A. (41). Box 2965.

Architectural Appointments Vacant

(4 times or under, 7s. 6d.; each additional time, 7s.)

BIRMINGHAM.—Architects require keen ASSISTANT; qualified or approaching R.I.B.A. Final; commercial and industrial work. Watson, Johnson & Stokes, Victoria Square. 2465

A.R.I.B.A./A.R.I.C.S. (age 30-35) wanted in busy London office in the Temple area. Architectural ability should be predominant. Forward full particulars of previous experience and salary required to Box 2599.

URGENTLY required, qualified **ARCHITECTURAL ASSISTANT**, with post-war knowledge of schools and hospitals. Good prospects. Salary according to experience. Gutch, Saunders & Sartridge, F./A.R.I.B.A., Bank Chambers, Kettering. Telephone: Kettering 3165/6. 2870

ARCHITECTURAL ASSISTANT, with experience, required for general practice. Reply, stating experience and salary required, to Thomas Worthington & Sons, 178, Oxford Road, Manchester, 13. 2854

ARCHITECTURAL ASSISTANT required for general private practice. Interest in contemporary design and previous office experience desirable. Salary by arrangement. S. Morrison, R.I.B.A., Derwent House, 39, Full Street, Derby. 2896

ARCHITECTURAL ASSISTANT required. Varied practice. Salary £390 to £442, according to experience. Welch & Lander, F.R.I.B.A., 38, Gloucester Place, W.1. Welbeck 3551. 2900

SENIOR ARCHITECTURAL ASSISTANT, with office experience, required for Architect's department of medium sized Brewery in the Midlands. Permanency for suitable applicant. State age, experience, and salary required, to Box 2901.

JUNIOR ARCHITECTURAL DRAUGHTSMAN required for Architect's department of Midland Brewery Company. Permanency for suitable applicant. State age, experience, and salary required, to Box 2902.

QUALIFIED and/or experienced **ARCHITECTURAL DRAUGHTSMAN** required for large practice. Pleasant 2 B.R. flat available. R. & D. Hall, F./A.R.I.B.A., Masonic Buildings, Bangor, N. Wales. 2951

PART Midland Firm of Private Architects require additional Qualified and Partially qualified ASSISTANTS. Each Assistant directly responsible to Principal. Bonus and pension schemes in operation. Extremely interesting and varied work. In replying please state age, married or single, experience, and approximate salary required. Box 2944.

ARCHITECTURAL ASSISTANT, Intermediate or higher standard, required for industrial projects. R.I.B.A. scale of salaries. Application invited to Box 2916.

ARCHITECT'S 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., 45, George Street, Croydon. 2918

WANTED.—**ARCHITECT ASSISTANT**, with view to Partnership. Must have good knowledge of designing, quantities, surveying, and setting final accounts. Box 2980.

ARCHITECTURAL ASSISTANTS required up to Intermediate standard. Write, stating age and experience and salary expected, to F. C. Roberts, B.Arch., A.R.I.B.A., Earl Chambers, Mold. 2979

ARCHITECTURAL ASSISTANT required for general practice in the City. Able to work with minimum of supervision and to carry out small schemes from sketch plan stage to completion. Please reply, giving details of age, experience, and salary required, to Box 2974.

ARCHITECTURAL ASSISTANT required, of Intermediate R.I.B.A. standard or over, and with some previous experience in an architect's office. Salary according to ability. Write, stating age and experience, to Staff Officer, Handley Page, Ltd., Cricklewood, London, N.W.2. 2957

ARCHITECTURAL ASSISTANT, Intermediate standard, required in Westminster. Varied practice, including Housing Schemes, University and Churches. Salary about £7, according to experience. Prospects of promotion. Send full particulars to Box 2962.

EXPERIENCED ARCHITECTURAL ASSISTANTS required by Consulting Engineers for work on large Government contracts. Salary, £500-£600 p.a. Apply Box 2950.

ARCHITECTURAL ASSISTANT required for Liverpool office. Write stating age, experience, etc., to Box 2992.

Architectural Appointments Wanted

YOUNG LADY, Intermediate R.I.B.A. standard, with 3½ years' experience, desires position in London office. Box 186.

ASSOCIATE (30), school and office trained, varied general experience, contemporary outlook, seeks responsible progressive position, with prospects, in North Country practice. Write Box 182.

STUDENT R.I.B.A., M.A. Cambridge (Engineering), some office experience, expecting to qualify at Liverpool, in July, 1952, seeks permanent employment in the South-west from that date. Non-union district preferred. Teaching appointment considered. Box 2964.

28 YEARS continuous experience in private, official, and commercial offices, A.R.I.B.A., Chief Assistant, wonders whether anyone is willing to construct him as a Working Partner or similar? If so, please write Box 2981.

EXPERIENCED SENIOR ARCHITECTURAL ASSISTANT (30), clean draughtsman and able to manage contracts; requires responsible post in the London or Staines areas. Salary in the region of £750 per annum. Box 189.

ASSISTANT of inter-standard required. Office experience and good draughtsman essential. Apply in writing, stating experience, age and salary required to R. Jelinek-Karl, 22, Chancery Lane, W.C.2. 2993

A.R.I.B.A. (23), has industrial, commercial and domestic experience and seeks position in Eire with contemporary Architect, preferably in the Dublin region. All replies answered promptly. Box 187.

ARCHITECTURAL ASSISTANT, age 21 years, able to execute, sketch designs, details, working drawings and surveying of land, seeks a post in S.W. of England. Box 188.

Other Appointments Vacant

(4 times or under, 7s. 6d.; each additional time, 7s.)

SURVEYOR required in office of Chartered Architects and Surveyors in the City. Must be capable of preparing specifications of dilapidations and conversions and to supervise building works in progress, negotiations with authorities, and checking of Builder's accounts. Please reply, giving details of age, experience, and salary required, to Box 2973.

INDUSTRIAL DESIGN VACANCY. **W. M. de MAJO** requires experienced ASSISTANT DESIGNER, fully conversant with Exhibition and Interior Design. Must be capable of executing complete working drawings and brief specifications. Experience of Industrial Design an advantage. Permanent, interesting opening for keen, industrious and imaginative man.

Write in first instance giving full details experience and salary required, and submit specimen samples to Miss B. Wainwright, 33, Jubilee Place, S.W.3. Applications will be treated as confidential. 2972

Handmade Roof Tiles

Short of physical damage, C.S. *handmade* Roof Tiles are imperishable. Made by hand from the famous Bridgwater clay, they neither laminate nor crack. Years of exposure have no ill effects upon them. We manufacture many patterns; Roman, Pantile, Spanish, Italian and such special shapes as Reynardo Bambino, and other tiles with bold rolls. One type greatly in demand is the C.S. No. 7 Double Roman. This is used extensively for Housing Estate work.

Write for illustrated list. Specify C.S. Handmade Roof Tiles.



No. 7 DOUBLE ROMAN TILE.
Size 16½in. by 13½in.

COLTHURST·SYMONS & Co. Ltd.

Patent Tile Works · Bridgwater · Somerset

London Office: Mr. Dawson Goodey, 6 Queen Anne's Gate, S.W.1. Phone: WHITEhall 7607.

DRAUGHTSMAN (SENIOR) for Laboratory Planning (home and export), preferably with experience in laboratory fitting, shop fitting, or allied work. Box 2958.

TWO young qualified Engineers required to assist in the production of various prestressed concrete products in Liverpool and London. Previous practical experience not essential. Write stating qualifications, experience, and salary required to Box P 941, Lee & Nightingale, Liverpool. 2991

JUNIOR DRAUGHTSMAN required for survey and record work in large industrial concern. Good prospects for suitable applicant having the necessary qualifications and experience. Post is permanent and pensionable. Reply giving full details.—The Clayton Aniline Co. Ltd., Clayton, Manchester, 11. 2990

Services Offered

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

QUANTITY SURVEYORS offer services to Architects: Taking off, working up, preparing bills, specifications and schedules, settling difficult Builders' accounts, measuring works on sites (London or Provinces), valuations for interim certificates, etc. Leonard & Partners, 350, Camberwell New Road, S.E.5. Phone Brixton 6040. 2872

A. R.I.B.A. (London area) offers service evenings and week-ends. Car owner. Please reply Box 2913.

A. R.I.B.A.—Willing to prepare a number of Sketch and Finished Perspectives. Please reply Box 2920.

A RCHITECTURAL MODELS and Dioramas. Edward J. Ashenden, A.R.C.A., 15, Cheshil Studios, 183, Kings Road, S.W.3. Tel.: Flax 6103. 2566

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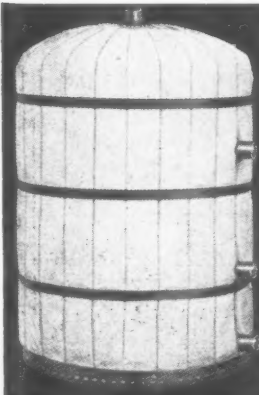
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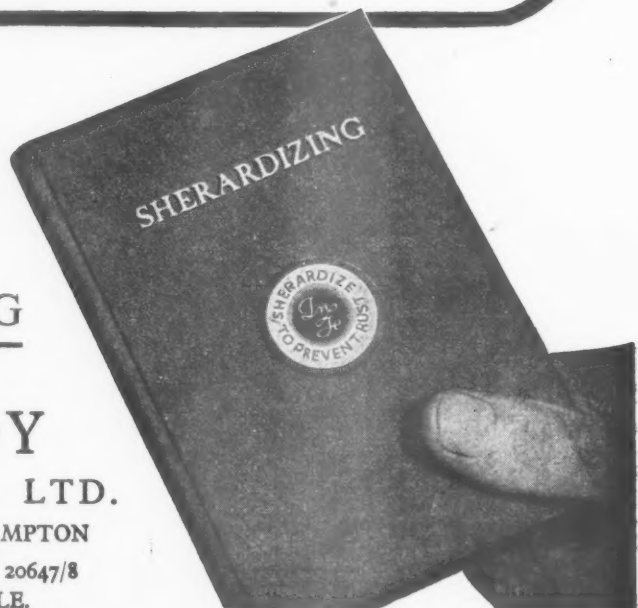
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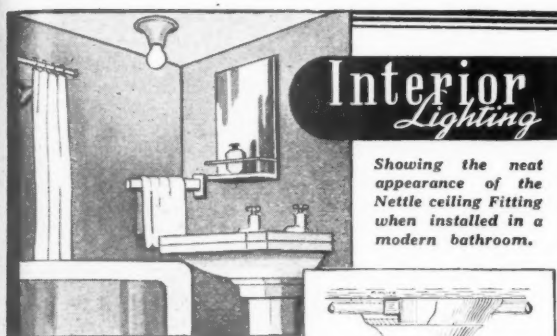
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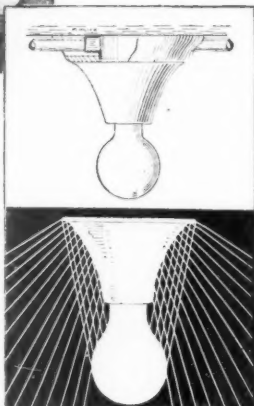




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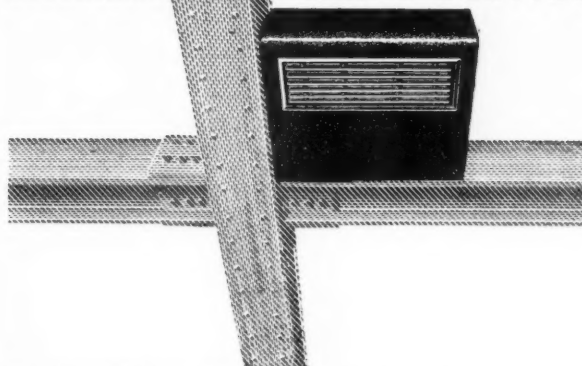
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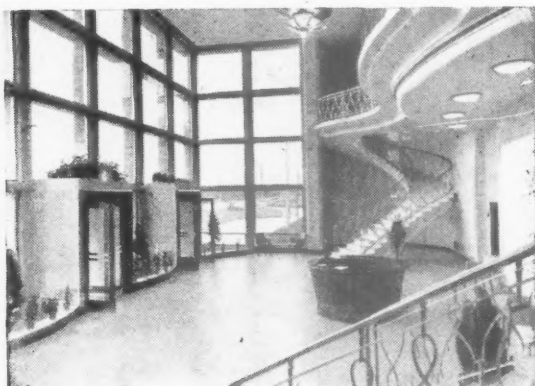
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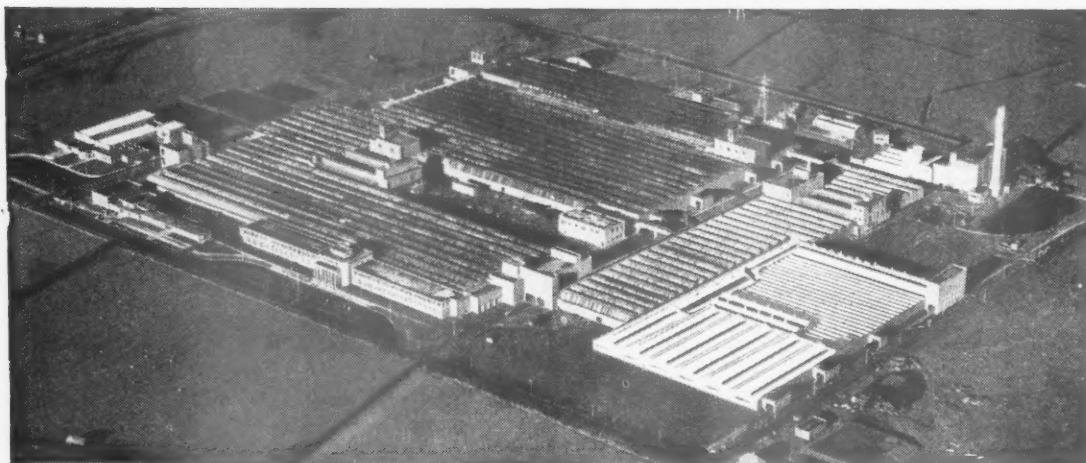
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